

3.4.9 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University						
Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	Citation	h index
Phase Locked Loop System with SIW-based Bandpass Filter for D-band Microwave Interferometer	Vala A., Charotar University of Science and Technology	Engineering Sciences	IETE Journal of Research	2022	0	36
Quantitative Analysis of MEMS Piezoresistive Pressure Sensors Based on Wide Band Gap Materials	Belwanshi V., Electronics Division	Engineering Sciences	IETE Journal of Research	2022	6	30
Squamous Cell Carcinoma of Scalp: Our Experience in a Single Tertiary Care Centre	Singh B., Head and Neck Services	Medical and Health Sciences	Indian Journal of Otolaryngology and Head and Neck Surgery	2022	0	28
Artificial neural network based predictive negative hydrogen ion helicon plasma source for fusion grade large sized ion source	Shukla V., Pandit Deendayal Patel	Physical Sciences	Engineering with Computers	2022	8	69
An in-house UV-photolysis setup for the rapid degradation of both cationic and anionic dyes in dynamic mode through UV/H ₂ O ₂ -based advanced oxidation process	Mullapudi V.B.K., Department of Chemical Sciences	Life Sciences	International Journal of Environmental Analytical Chemistry	2022	3	48
Tackling brain metastases from lung cancer during the COVID-19 pandemic	Mummudi N., Department of Radiation Oncology	Medical and Health Sciences	Cancer Reports	2022	2	14
WD40 domain of RqkA regulates its kinase activity and role in extraordinary radioresistance of D. radiodurans	Sharma D.K., Molecular Biology Division	Life Sciences	Journal of Biomolecular Structure and Dynamics	2022	3	81
Assessing the accuracy of treatment planning system based radiotherapy structure volumes	Sharma R., Amity Institute of Applied Sciences	Medical and Health Sciences	Journal of Radiotherapy in Practice	2022	0	16
Mono versus dual isocentric technique for breast cancer radiotherapy: evaluation of planning, dosimetry and treatment delivery	Wadasadawala T., Department of Radiation Oncology	Medical and Health Sciences	Journal of Radiotherapy in Practice	2022	1	16
In-situ synthesised polyaniline - halloysite nanoclay composite sorbent for effective decontamination of nitrate from aqueous streams	Parab H., Analytical Chemistry Division	Chemical Sciences	International Journal of Environmental Analytical Chemistry	2022	0	48
Is it important to define skin sub-volumes in breast brachytherapy?	Wadasadawala T., Department of Radiation Oncology	Medical and Health Sciences	Journal of Radiotherapy in Practice	2022	0	16
Dosimetric comparison of volumetric-modulated arc therapy and helical tomotherapy for adjuvant treatment of bilateral breast cancer	Phuralatpam R., Department of Radiation Oncology	Medical and Health Sciences	Journal of Radiotherapy in Practice	2022	3	16
Design and Development of Instrumentation for Remote Detection of Hydrogen Using Metal Oxide Sensor	Keshari A.K., Homi Bhabha National Institute	Chemical Sciences	IETE Technical Review (Institution of Electronics and Telecommunication Engineers)	2022	0	39
Rapid removal of rhodamine dye from aqueous solution using casein-surfactant complexes: role of casein-surfactant interaction	Vadivel M., SMART Materials Section	Physical Sciences	Journal of Dispersion Science and Technology	2022	1	53
Incremental value of endoscopic brush cytology in response assessment after chemoradiation for Esophageal cancer	Karmakar S., Department of Radiation Oncology	Medical and Health Sciences	Journal of Gastrointestinal Cancer	2022	0	30
Quick laboratory methodology for determining the particle filtration efficiency of face masks/respirators in the wake of COVID-19 pandemic	Joshi M., Radiological Physics and Diagnostics	Physical Sciences	Journal of Industrial Textiles	2022	11	49
Evaluation of traditional ayurvedic Kadha for prevention and management of the novel Coronavirus (SARS-CoV-2) using in silico approach	Maurya D.K., Radiation Biology Division	Life Sciences	Journal of Biomolecular Structure and Dynamics	2022	23	81
Different central parts of trees and their pairwise distances	Pandey D., School of Mathematics	Mathematical Sciences	Linear and Multilinear Algebra	2022	0	44
Ingham-type theorems for the Dunkl Fourier transforms	Bhowmik M., Department of Mathematics	Mathematical Sciences	Complex Variables and Elliptic Equations	2022	2	33
Representation of integers as monochromatic sums of squares of primes	Mallesham K., Stat-Math Unit, Institute of Science, Bangalore	Mathematical Sciences	Journal of Number Theory	2022	0	45
Surgical management of cerebellopontine angle epidermoid cysts: an institutional experience of 10 years	Vernon V., Department of Neurosurgery	Medical and Health Sciences	British Journal of Neurosurgery	2022	5	71
β-Lactoglobulin-gold nanoparticles interface and its interaction with some anticancer drugs—an approach for targeted drug delivery	Waghmare M.N., Department of Chemistry	Life Sciences	Journal of Biomolecular Structure and Dynamics	2022	3	81
Interaction of esculetin with aluminium ion by spectroscopic studies and isothermal titration calorimetry: a probable molecule for chelation therapy	Deokar R.G., Department of Chemistry	Chemical Sciences	Journal of Biomolecular Structure and Dynamics	2022	1	81
Liquid-Liquid Extraction of Actinides from Nitric Acid Feeds Using Two Hexa-n-alkylnitriacetamides	Karak A., INRPO, FF, Nuclear Research Centre, Bhabha Atomic Research Centre, Mumbai	Chemical Sciences	Solvent Extraction and Ion Exchange	2022	6	71
Familial Gigantiform Cementoma with Calcium Steal Phenomenon and Social Stigma: A Case Report with Review of Literature	Yadav S.C., Department of Surgical Oncology	Medical and Health Sciences	Journal of Maxillofacial and Oral Surgery	2022	1	29
Evaluation of cytogenetic response in CML patients with variant Philadelphia translocation	Shetty D., Department of Cancer Medicine	Medical and Health Sciences	Asia-Pacific Journal of Clinical Oncology	2022	1	37
On the Fourier coefficients of certain Hilbert modular forms	Agnihotri R., Harish-Chandra Research Institute	Mathematical Sciences	Ramanujan Journal	2022	1	39
Understanding the binding affinities between SFRP1 CRD, SFRP1 Netrin, Wnt 5B and frizzled receptors 2, 3 and 7 using MD simulations	Sunkara R.R., Stem Cell Biology Division	Life Sciences	Journal of Biomolecular Structure and Dynamics	2022	2	81
Study of crystallization kinetics, microstructure and optical properties of Ce: YAG glass-ceramics for white LED applications	Nandi P., Glass & Advanced Materials Division	Chemical Sciences	Journal of Thermal Analysis and Calorimetry	2022	1	111
High cumulative risk of colorectal cancers and desmoid tumours and fibromatosis in South Asian APC mutation carriers	Ashar S., Cancer Genetics Unit, Tata Memorial Hospital	Medical and Health Sciences	Journal of Medical Genetics	2022	1	185
Factors influencing Cervical Lymph Node Metastasis in Pediatric Differentiated Thyroid Cancers	Qureshi S.S., Division of Paediatric Surgery	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	0	21
Holdup and regime transition in reciprocating and rotating sieve plate column (RRSPC) for C6(mim)PP6 ionic liquid-water system	Ghuzze N.S., Alkali Material & Membrane Division	Engineering Sciences	Solvent Extraction and Ion Exchange	2022	1	71
Ozonation of phenol and substituted phenols: Dependency of the reaction rate constant on the molecular structure	Bhosale G.S., Department of Chemical Engineering	Engineering Sciences	Canadian Journal of Chemical Engineering	2022	1	75
A Simulation Approach to Study the Effect of SIC Polyplysm Factor on Sensitivity of Piezoresistive MEMS Pressure Sensor	Patankar M.K., Real Time Systems Division	Physical Sciences	Silicon	2022	1	41
Effect of specimen thickness on threshold stress intensity factor (KI _H) associated with DHC in Zr-2.5 Nb alloy pressure tube material	Sunil S., Mechanical Metallurgy Division	Engineering Sciences	Materials Performance and Characterization	2022	0	18
Development of a psychosocial perception scale and comparison of psychosocial perception of patients with extra oral defects before and after facial prosthesis	Dholam K.P., Professor and Head, Department of Prosthodontics	Medical and Health Sciences	Journal of Prosthetic Dentistry	2022	0	148

Is There a Difference Between LI-RADS 3 to LI-RADS 5 Progression Assessment Using CT Versus MRI? A Retrospective, Single-Center, Longitudinal Study of Patients Who Underwent 5082 Radiologic Examinations for Surveillance of Hepatocellular Carcinoma Over a 43-Month Period	Ojeda P.J., Department of Radiol	Medical and Health Sciences	Current Problems in Diagnostic Radiology	2022	2	38
Helix-coil transition and conformational deformity in AB ₄₂ -monomer: a case study using the Zn ²⁺ cation	Chowdhury U.D., School of Chem	Chemical Sciences	Journal of Biomolecular Structure and Dynamics	2022	0	81
Investigations of Donor-Acceptor Interactions in 1,3,5-Tris-(3-Methoxy & 3-Methyl Carboxy) Phenyl Ethynyl Benzene Derivatives Using Experimental and DFT Study	Suryachandram J., New Generat	Chemical Sciences	Polycyclic Aromatic Compounds	2022	0	38
BSA-drg-ZnO-PEI conjugates interaction with glycans of gp60 endothelial cell receptor protein for targeted drug delivery: a comprehensive spectroscopic study	Kumari N., Department of Bioph	Life Sciences	Journal of Biomolecular Structure and Dynamics	2022	1	81
Creep behavior of nuclear grade 316LN austenitic stainless steel at 873 K and 923 K	Ganesan V., Materials Developm	Engineering Sciences	Mechanics of Time-Dependent Materials	2022	0	50
Co-action of ABA, brassinosteroid hormone pathways and differential regulation of different transcript isoforms during cold-and-dark induced senescence in Arabidopsis	Panigrahy M., School of Biologic	Life Sciences	Journal of Plant Biochemistry and Biotechnology	2022	4	33
Experimental and theoretical studies on solvent extraction of uranium(VI) with hexapropyl and hexabutyl phosphoramidate extractants	Jegan G., Homi Bhabha National	Chemical Sciences	Solvent Extraction and Ion Exchange	2022	3	71
Raw data processing techniques for material classification of objects in dual energy X-ray baggage inspection systems	Kavalvizi R., Department of Elec	Engineering Sciences	Radiation Physics and Chemistry	2022	4	93
Some Conditional Cube Testers for Grain-128a of Reduced Rounds	Dalai D.K., National Institute of S	Mathematical Sciences	IEEE Transactions on Computers	2022	3	136
Serum Elemental Analysis of Type 2 Diabetes Patients Using SRXRF	Rao N.S., Department of Physics	Physical Sciences	Biological Trace Element Research	2022	0	94
Carcinoma Cuniculatum of the Oral Cavity: A Series of 6 Cases and Review of Literature	Yadav S., Department of Patholo	Medical and Health Sciences	Head and Neck Pathology	2022	4	62
A unique case of adamantinoma-like Ewing sarcoma in the calcaneus, exhibiting prominent squamous differentiation and displaying EWSR1 gene rearrangement	Rekhi B., Department of Surgical	Medical and Health Sciences	Skeletal Radiology	2022	2	99
Effects of Sonication Period on Colloidal Stability and Thermal Conductivity of SiO ₂ -Water Nanofluid: An Experimental Investigation	Mukherjee S., Thermal Research	Engineering Sciences	Journal of Cluster Science	2022	8	56
Two-piece oral facial prosthesis retained with magnets for a complex maxillary facial defect: A clinical report	Dholani K.P., Professor and head	Medical and Health Sciences	Journal of Prosthetic Dentistry	2022	0	143
Multi-parametric groundwater quality and human health risk assessment vis-à-vis hydrogeochemical process in an Agri-intensive region of Indus basin, Punjab, India	Jaswal V., Department of Environ	Physical Sciences	Toxin Reviews	2022	5	50
Secondary product from strawberry (Fragaria ananassa) fruit for extended preservation and value addition	Kumar S., Food Technology Divis	Life Sciences	Journal of Food Science and Technology	2022	1	94
Facile Synthesis and Characterization of Microstructure and Optical Properties of Pure and Zn Doped SnO ₂ Nanorods	Amutha A., Centre for Nanoscien	Physical Sciences	Journal of Cluster Science	2022	1	56
Quality of life comparison in thyroxine hormone withdrawal versus triiodothyronine supplementation prior to radioiodine ablation in differentiated thyroid carcinoma: a prospective cohort study in the Indian population	Rajamanickam S., Department o	Medical and Health Sciences	European Archives of Oto-Rhino-Laryngology	2022	2	83
Impact of enhanced recovery pathway in 408 gallbladder cancer resections	Joshi R., Department of Anaesth	Medical and Health Sciences	HPB	2022	3	85
Experimental investigation for stability and surface properties of TiO ₂ and Al ₂ O ₃ water-based nanofluids	Das P.K., Department of Mechar	Physical Sciences	Journal of Thermal Analysis and Calorimetry	2022	7	111
Potential phytochemical inhibitors of SARS-CoV-2 helicase Nsp13: a molecular docking and dynamic simulation study	Vivek-Ananth R.P., The Institute	Life Sciences	Molecular Diversity	2022	15	62
Angular dependent piezoelectric effect of La _{0.7} Ba _{0.3} MnO ₃ (LBMO) embedded P(VDF-TrFE) particulate multiferroic nanocomposite	Koner S., Laser and Functional M	Physical Sciences	Journal of Materials Science: Materials in Electronics	2022	2	88
Factors influencing women to participate in cervical cancer screening by providing menstrual pads: A population-based study from rural areas of maharashtra state, india	Budukh A., Centre for Cancer Ep	Medical and Health Sciences	Indian Journal of Cancer	2022	3	42
Decisive impact of filler-free joining processes on the Microstructural evolution, tensile and impact properties of 9Cr-1Mo-V-Nb to 316 LN dissimilar joints	Venkatakrishna A., Department	Engineering Sciences	Proceedings of the Institution of Mechanical Engineers, Part C: Jour	2022	2	63
Ossifying Fibromas of the Head and Neck Region: A Clinicopathological Study of 45 Cases	Nagar S.R., Department of Patho	Medical and Health Sciences	Head and Neck Pathology	2022	2	62
Anomalous magnetic behaviour at nano-scale of Mn ²⁺ -substituted magnesio-ferrite synthesized by auto-combustion technique	Hathiya L.J., Department of Phys	Physical Sciences	Indian Journal of Physics	2022	1	38
Growing Anisotropic Silver Nanostructures from Copper-Coated Fibrous Silica and Its Application as Plasmonic Photocatalyst	Sarkar D., Technical Physics Divis	Physical Sciences	Plasmonics	2022	0	67
Improving the accuracy of charge size distribution measurement using electrical low pressure impactor	Mariam, Radiological Physics and	Physical Sciences	Particulate Science and Technology	2022	0	44
Dose distribution to a random walker moving in a two-dimensional surface around a radioactive source	Kumar P., Health Physics Divisio	Physical Sciences	Journal of Exposure Science and Environmental Epidemiology	2022	0	105
Study of weldability for aluminide Coated Steels through A-TIG welding process	Zala A.B., FCIPT, Institute for Pla	Engineering Sciences	Materials Performance and Characterization	2022	2	38
Exact Multi-Covering Problems with Geometric Sets	Ashok P., International Institute	Mathematical Sciences	Theory of Computing Systems	2022	0	46
Pathological N3 Stage (pN3/ypN3) Gastric Cancer: Outcomes, Prognostic Factors and Pattern of Recurrences After Curative Treatment	Pachaury A., Gastrointestinal an	Medical and Health Sciences	Annals of Surgical Oncology	2022	3	102
Cu-Cl Thermochemical Water Splitting Cycle: Probing Temperature-Dependent CuCl ₂ Hydrolysis and Thermolysis Reaction Using In Situ XAS	Singh R.V., Chemistry Division, B	Chemical Sciences	Journal of Thermal Analysis and Calorimetry	2022	3	111
Development and qualification of materials for Indian advanced ultra-supercritical coal-fired power plant	Bhaduri A.K., Indira Gandhi Cent	Engineering Sciences	Materials Performance and Characterization	2022	2	38
Synthesis and characterization of polyphenols functionalized graphitic hematite nanocomposite adsorbent from an agro waste and its application for removal of Cs from aqueous solution	Mohamed Khalith S.B., Center fo	Chemical Sciences	Chemosphere	2022	9	288
Thiol functionalised silica microsphere loaded polymeric hydrogel: Development of a novel hybrid sorbent for removal of lead and cadmium	Singh S., Analytical Chemistry Div	Chemical Sciences	Chemosphere	2022	10	288
ASO Authors Reflection: N3 Stage Gastric Cancer Needs Treatment Intensification	Bhandare M.S., Gastrointestinal	Medical and Health Sciences	Annals of Surgical Oncology	2022	0	102
Studies on the aggregation behavior of mineral acid and Zr(IV) loaded Tris(2-methylbutyl) phosphate and tri-n-alkyl phosphate systems using small angle neutron scattering	Sarkar S., Department of Atomic	Chemical Sciences	Separation Science and Technology (Philadelphia)	2022	3	87

Mobilization and health risk assessment of fertilizer induced uranium in coastal groundwater	Mathivanan M., Center for Bioe	Physical Sciences	Environmental Research	2022	14	164
Balancing loading, cellular uptake, and toxicity of gelatin-pluronic nanocomposite for drug delivery: Influence of HLB of pluronic	Das R.P., Radiation and Photochem	Chemical Sciences	Journal of Biomedical Materials Research - Part A	2022	7	167
Plateletpheresis donation through donor awareness, motivation, and recruitment drives: A unique concept and experience from a tertiary care oncology centre in India	Ojha S., Department of Transfus	Medical and Health Sciences	Transfusion Clinique et Biologique	2022	0	48
COVID-19 in Children with Cancer and Continuation of Cancer-Directed Therapy During the Infection	Parambil B.C., Department of Pe	Medical and Health Sciences	Indian Journal of Pediatrics	2022	7	58
Liveness in broadcast networks	Chini P., TU Braunschweig, Braur	Mathematical Sciences	Computing	2022	0	70
Aerobic granular sludge for efficient biotransformation of chalcogen SeIV and TeIV oxyanions: Biological nutrient removal and biogenesis of Se0 and Te0 nanostructures	Nancharaiah Y.V., Biofouling and	Life Sciences	Journal of Hazardous Materials	2022	14	329
Hydrolytically stable citrate capped Fe3O4@UiO-66-NH2 MOF: A hetero-structure composite with enhanced activity towards Cr (VI) adsorption and photocatalytic H2 evolution	Prakash Tripathy S., Centre for N	Chemical Sciences	Journal of Colloid and Interface Science	2022	65	262
Probe decorated porous silica and polymer monoliths as solid-state optical sensors and preconcentrators for the selective and fast recognition of ultra-trace arsenic ions	Sompalli N.K., Department of Ch	Chemical Sciences	Journal of Hazardous Materials	2022	7	329
An Audit of Systemic Therapy in Medullary Carcinoma Thyroid	Kanteti A.P.K., Department of M	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	0	21
Biomolecules of Similar Charge Polarity Form Hybrid Gel	Pandey P., School of Physical Sci	Physical Sciences	Soft Materials	2022	0	29
Core electron spectroscopic studies on new structure type iron based superconductors CaKFe4As4 and KCa2Fe4As4F2: DFT predictions	Ghosh S., Homi Bhabha National	Physical Sciences	Journal of Physics and Chemistry of Solids	2022	2	117
Neuroendocrine Neoplasms of the Larynx: A Clinicopathologic Analysis of 27 Neuroendocrine Tumors and Neuroendocrine Carcinomas	Bai M., Department of Pathology	Medical and Health Sciences	Head and Neck Pathology	2022	8	62
Does Preoperative Serum Neutrophil to Lymphocyte Ratio (NLR), Platelet to Lymphocyte Ratio (PLR), and Lymphocyte to Monocyte Ratio (LMR) Predict Prognosis Following Radical Surgery for Pancreatic Adenocarcinomas? Results of a Retrospective Study	Gupta V., Gastrointestinal and H	Medical and Health Sciences	Journal of Gastrointestinal Cancer	2022	5	38
Endolymphatic sac tumor: single-institution series of seven cases with updated review of literature	Talukdar R., Department of Radi	Medical and Health Sciences	European Archives of Oto-Rhino-Laryngology	2022	2	83
Experimental investigations on melt coagulability with simulated decay heat—The influence of delay time in flooding	Munot S.S., Homi Bhabha Natio	Engineering Sciences	Heat Transfer	2022	1	39
Evaluating Stability and Activity of SARS-CoV-2 PLpro for High-throughput Screening of Inhibitors	Arya R., Protein Crystallography	Life Sciences	Molecular Biotechnology	2022	4	87
Psychological distress in primary caregivers of children with cancer during COVID-19 pandemic: A single tertiary care center experience	Cheriyalanki Parambil B., Depart	Medical and Health Sciences	Psycho-Oncology	2022	1	152
Heat-induced transitions of an empty minute virus of mice capsid in explicit water: all-atom MD simulation	Pathak A.K., Theoretical Chemist	Chemical Sciences	Journal of Biomolecular Structure and Dynamics	2022	1	81
Assessment of 177Lu-labeled carboxyl-terminated polyamidoamine (PAMAM) dendrimer-RGD peptide conjugate	Vats K., Radiopharmaceuticals D	Chemical Sciences	Journal of Peptide Science	2022	1	71
Parenchymal preserving liver resection for centrally located liver tumors: how I do it?	Patel S., Gastrointestinal and He	Medical and Health Sciences	Langenbeck's Archives of Surgery	2022	0	80
Crystal structure of aspartyl dipeptidase from Xenopus laevis revealed ligand binding induced loop ordering and catalytic triad assembly	Kumar A., Beamline Developer	Life Sciences	Proteins: Structure, Function and Bioinformatics	2022	0	178
On Thin Sum-Product Bases	Hennecart F., UJM-Saint-Etienne	Mathematical Sciences	Combinatorica	2022	0	57
Mimics and artefacts of measurable residual disease in a highly sensitive multicolour flow cytometry assay for B-lymphoblastic leukaemia/lymphoma: critical consideration for analysis of measurable residual disease	Chatterjee G., Haematopathology	Medical and Health Sciences	British Journal of Haematology	2022	1	201
Unraveling U6+, Am3+&Eu3+ ion's distribution in Ca10(PO4)6F2 for radioactive waste immobilization and the associated U6+ → Eu3+ energy transfer dynamics for tunable emission characteristics	Pathak N., Radiochemistry Divisi	Chemical Sciences	Journal of Hazardous Materials	2022	4	329
High Risk Acute Promyelocytic Leukemia - An Enigma for Hematologists: Optimizing Treatment with APML-4 Protocol	Kapoor J., Department of Hemat	Medical and Health Sciences	Indian Journal of Hematology and Blood Transfusion	2022	3	20
Effect of graphene addition on thermal behavior of 3D printed graphene/AlSi10Mg composite	Tiwari J.K., Additive Manufacturi	Physical Sciences	Journal of Alloys and Compounds	2022	19	200
Stearic acid mediated growth of edge-on oriented bilayer poly(3-hexylthiophene) Langmuir films	Roy S., Saha Institute of Nuclear	Life Sciences	Journal of Colloid and Interface Science	2022	7	262
Pressure dependent phase transformations of energetic material 2,4-dinitroanisole using Raman spectroscopy, X-ray diffraction and first principles calculations	Rajan R., Materials Science Grou	Physical Sciences	Journal of Molecular Structure	2022	3	117
Polynomial expression for calculating "Total Internal Partition Sums" for portable gas sensors	Gupta A., Atomic and Molecular	Physical Sciences	Indian Journal of Physics	2022	0	38
Theoretical investigation on the adsorption of melamine in Al12/B12-N12/P12 fullerene-like nanocages: a platform for ultrasensitive detection of melamine	Al-Qtaibi J.S., Department of Che	Physical Sciences	Chemical Papers	2022	10	50
Paratesticular endometrioid adenocarcinoma of the ovarian surface epithelial type with neuroendocrine differentiation: an undescribed entity	Mundada A., Department of Pat	Medical and Health Sciences	Histopathology	2022	0	136
68Ga-DOTATATE PET/CT imaging in endogenous hyperinsulinemic hypoglycemia: A tertiary endocrine centre experience	Shah R., Department of Endocrin	Medical and Health Sciences	Clinical Endocrinology	2022	3	159
Hydrodynamic Properties of Tris(2-methylbutyl) Phosphate and Tri-n-alkyl Phosphates in n-Dodecane-A Comparative Investigation between Unirradiated and Gamma Irradiated Solvent Systems	Sarkar S., Homi Bhabha National	Chemical Sciences	Solvent Extraction and Ion Exchange	2022	3	71
Synthesis of nano-crystalline zeolite-A and zeolite-X from Indian coal fly ash, its characterization and performance evaluation for the removal of Cs+ and Sr2+ from simulated nuclear waste	Murukutti M.K., Homi Bhabha N	Chemical Sciences	Journal of Hazardous Materials	2022	30	329
Reactivity of hemilabile 2-pyridylselenolate ligand towards [NiCl2(dppe)]: Combined experimental and theoretical study	Chauhan R.S., Department of Ch	Chemical Sciences	Journal of Molecular Structure	2022	5	117
Existence of spin-polarized Dirac cone in Sr2CrB6: A DFT study	Shwetha G., Madanapalle Institu	Physical Sciences	Physica B: Condensed Matter	2022	1	124
Revisiting eigen displacements of tetragonal BaTiO3: Combined first principle and experimental investigation	Dwij V., UGC-DAE Consortium fo	Physical Sciences	Physica B: Condensed Matter	2022	6	124
Radiative properties of Eu3+ in Li-Al-Si-O ceramics: Effect of 'Sf' to 'Lr' ratio	Mohapatra M., Radiochemistry C	Chemical Sciences	Ceramics International	2022	0	146

Optically stimulated luminescence in nano- and microcrystalline BaSO ₄ :Eu	Patle A., Institute of Science, Na	Physical Sciences	Journal of Optics (India)	2022	2	17
Atypical imaging presentation of herpes simplex virus encephalitis in paediatric immunocompromised oncology patients	Kapadia T., Tata Memorial Centre	Medical and Health Sciences	Journal of Medical Imaging and Radiation Oncology	2022	0	49
Industry Funding of Oncology Randomised Controlled Trials: Implications for Design, Results and Interpretation	Fundyus A., Division of Cancer C	Medical and Health Sciences	Clinical Oncology	2022	7	85
Compression tuned crystalline and amorphous phases of Gd ₂ Si ₂ O ₇ : Raman spectroscopic and first-principles studies	Kesari S., Solid State Physics Divi	Physical Sciences	Journal of Alloys and Compounds	2022	0	200
Coexistence of exchange bias and memory effect in nanocrystalline CoCr ₂ O ₄	Goswami S., Material Science Re	Physical Sciences	Journal of Alloys and Compounds	2022	7	200
Clear Cell Chondrosarcoma—Oncological Outcomes in an Asian Cohort	Gulla A., Department of Surgery	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	1	21
Effects of sintering temperature on microstructure, initial permeability and electric behaviour of Ni-Mn-Zn ferrites	Gawas U.B., Department of Chem	Physical Sciences	Materials Chemistry and Physics	2022	11	170
Pseudo matrix-matched standards for the determination of iron in ferrocene and its derivatives by energy dispersive X-ray fluorescence spectrometry	Yerrouli S., National Centre for Co	Chemical Sciences	X-Ray Spectrometry	2022	0	50
Acoustic Emission during Press-Brake Bending of SS 304L Sheets and its Correlation with Residual Stress Distribution after Bending	Lavanya S., Homi Bhabha Nation	Engineering Sciences	Journal of Materials Engineering and Performance	2022	5	78
Exploration of Gamma irradiation effects on the structural, spectral characteristics, thermomechanical behaviour and optical constants in $\langle 011 \rangle$-oriented glycine-Di-Glycinium sulphate (TGS) single crystals	Bharath Sabarish V.C., Departme	Physical Sciences	Journal of Molecular Structure	2022	2	117
Super-Hydrophobic Nanostructured Silica Coating on Aluminum Substrate for Moist Air Condensation	Sharma D.K., Amity Institute of M	Physical Sciences	Journal of Materials Engineering and Performance	2022	4	78
Dynamic Recrystallization and Phase-Specific Corrosion Performance in a Super Duplex Stainless Steel	Mondal R., Department of Metal	Engineering Sciences	Journal of Materials Engineering and Performance	2022	2	78
Surface and interface characterization of Ru/C/Ru trilayer structure using grazing incidence X-ray reflectivity and X-ray fluorescence	Kiranjot, Homi Bhabha National I	Physical Sciences	Surface and Interface Analysis	2022	3	96
Effect of the triple (Al, Ga, In) doping in ZnO nanostructures on its transmission, conductivity, and stability for TCO applications	Saxena N., Amity Institute of Na	Physical Sciences	Materials Letters	2022	8	164
Risk modelling of ageing nuclear reactor systems	Wootton M.J., Faculty of Engine	Engineering Sciences	Annals of Nuclear Energy	2022	3	77
Identification of tyrosine kinase inhibitors from Panax bipinnatifidus and Panax pseudoginseng for RTK—HER2 and VEGFR2 receptors, by in silico approach	Paul D., Department of Biotechn	Life Sciences	Molecular Diversity	2022	3	62
Artificial neural networks for cosmic gamma-ray propagation in the universe	Singh K.K., Astrophysical Science	Physical Sciences	New Astronomy	2022	4	72
Elemental analysis of residual ash generated during plasma incineration of cellulose, rubber and plastic waste	Pancholi K.C., Homi Bhabha Nat	Chemical Sciences	Waste Management and Research	2022	3	92
LDF based parametric optimization to model fluidized bed adsorption of trichloroethylene on activated carbon particles	Nikam S., Homi Bhabha National	Engineering Sciences	Particology	2022	2	73
Magnetic Pulse Welding of D9 Steel Tube to SS316LN End Plug	Kulkarni M.R., Accelerator and P	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39
Tunable photoluminescence properties of Dy ³⁺ doped LLZO phosphors for WLED and dosimetry applications	Kumar K.G., SSN Research Centri	Physical Sciences	Ceramics International	2022	12	140
Application of hybrid MOF composite in extraction of f-block elements: Experimental and computational investigation	Sakunthe G., Department of Chem	Chemical Sciences	Chemosphere	2022	13	288
Implementation of Big Imaging Data Pipeline Adhering to FAIR Principles for Federated Machine Learning in Oncology	Jha A.K., The Department of Rad	Medical and Health Sciences	IEEE Transactions on Radiation and Plasma Medical Sciences	2022	1	28
Inter-droplet force between magnetically polarizable Pickering oil-in-water nanoemulsions stabilized with γ -Al ₂ O ₃ nanoparticles: Role of electrostatic and electric dipolar interactions	Nandy M., Smart Materials Secti	Physical Sciences	Journal of Colloid and Interface Science	2022	8	262
Transition of creep damage region in P91-Alloy800-SS316LN dissimilar metals weld joint	Sakthivel T., Metallurgy and Mat	Engineering Sciences	Materials Letters	2022	3	164
Structural stability of titanate pyrochlores undergoing radiation damage	Dholakia M., Materials Science G	Physical Sciences	Computational Materials Science	2022	0	135
Impact of Iron in Three-Dimensional Co-MOF for Electrocatalytic Water Oxidation	Sahoo M.K., National Institute of	Chemical Sciences	Inorganic Chemistry	2022	13	240
Characterization of argon ion irradiation induced changes in microstructure and mechanical property of binary Zr-2.9 wt% Sn alloy	Devi A., Homi Bhabha National Ir	Chemical Sciences	Radiation Physics and Chemistry	2022	1	93
Thermo-chemical behavior of PHWR disassembled channel during severe accident condition: Numerical and experimental investigation	Kumar R., Department of Mecha	Engineering Sciences	Annals of Nuclear Energy	2022	1	77
Polaron assisted electrical transport and fertile field emission response in polycrystalline LiNi _{0.33} Co _{0.33} Mn _{0.33} O ₂ with theoretical insight by density functional theory	Karmakar S., Department of Phy	Physical Sciences	Journal of Alloys and Compounds	2022	1	200
Thermal stability of interfacial mixed layers in c-Ni/a-Zr multilayer during annealing: Structural and magnetic properties	Bhattacharya D., Solid State Phy	Physical Sciences	Applied Surface Science	2022	1	219
"Prevalence of chronic pain following resection of pelvic bone tumours: A single centre prospective observational survey"	Bakshi S., Department of Anaest	Medical and Health Sciences	British Journal of Pain	2022	0	22
Synthesis of sulfur-doped porous carbon for supercapacitor and gas adsorption applications	Mishra R., School of Chemical Sc	Chemical Sciences	International Journal of Energy Research	2022	4	110
ZnO nanowires based e-nose for the detection of H ₂ S and NO ₂ toxic gases	Siniu K.R., Technical Physics Divi	Physical Sciences	Materials Science in Semiconductor Processing	2022	4	77
Atypical activation of signaling downstream of inactivated Bcr-Abl mediates chemoresistance in chronic myeloid leukemia	Narasimhan M., Rukmini Lab, AC	Life Sciences	Journal of Cell Communication and Signaling	2022	1	77
Diagnostic Performance and Clinical Impact of 68Ga-PSMA-11 PET/CT Imaging in Early Relapsed Prostate Cancer after Radical Therapy: A Prospective Multicenter Study (IAEA-PSMA Study)	Cerci J.J., Quanta Diagnostico e T	Medical and Health Sciences	Journal of Nuclear Medicine	2022	16	211
Experimental study and numerical simulation of seismic behaviour of corroded reinforced concrete frames	Nagender T., Scientific Officer-E	Engineering Sciences	Structures	2022	7	42
Endoscopic management of colocolic intussusception in an adult with colonic stent placement	Rathod R., Department of Digest	Medical and Health Sciences	Endoscopy	2022	0	157

IGF1R- $\alpha 6$ integrin-S100A4 network governs the organ-specific metastasis of chemoresistant epithelial ovarian cancer cells	Deo A.N., Imaging Cell Signalling	Life Sciences	Biochimica et Biophysica Acta - Molecular Basis of Disease	2022	3	173
A novel approach to analyse combined pre and post strain rate dependent phase transformation in uniaxially deformed AISI 304 stainless steel using XRD and EBSD	Dey S., Variable Energy Cyclotron	Engineering Sciences	Philosophical Magazine	2022	2	108
Molecular basis for reduced cleavage activity and drug resistance in D30N HIV-1 protease	Bihani S.C., Protein Crystallography	Life Sciences	Journal of Biomolecular Structure and Dynamics	2022	1	81
An active RUNX1-ID1/ID3 axis governs differentiation and chemoresistance of cancer stem cell population in epithelial ovarian cancer cells	Dhadve A.C., Imaging Cell Signalling	Life Sciences	BioCell	2022	1	29
Formulation, Solubilization, and In Vitro Characterization of Quercetin-Incorporated Mixed Micelles of PEO-PPO-PEO Block Copolymers	Patel H.S., Applied Chemistry Department	Physical Sciences	Applied Biochemistry and Biotechnology	2022	9	127
High-temperature electrochemical corrosion evaluation of 2.25Cr-1Mo alloy in eutectic LiCl-KCl molten salt	Rao C.J., Corrosion Science and Technology	Chemical Sciences	Corrosion Engineering Science and Technology	2022	1	46
Wideband circularly polarized concentric cylindrical dielectric resonator antenna excited by helix	Pandey A.K., Microwave and Electromagnetics	Engineering Sciences	International Journal of RF and Microwave Computer-Aided Engineering	2022	2	43
Growing AuNRs in a single step with NIR plasmon for superior SERS and plasmonic photothermal performance	Pan S., Surface and Nanoscience	Chemical Sciences	Journal of Physics and Chemistry of Solids	2022	4	117
High pressure Raman investigation on trans-urocanic acid	Kumar N., Infrared Laser Spectroscopy	Physical Sciences	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2022	1	145
Effects of Ce ³⁺ /Dy ³⁺ and Ce ³⁺ /Sm ³⁺ co-doping as a luminescent modifier in alumina-borophosphate glasses for w-LED application	Dhavamurthy M., Department of Chemistry	Chemical Sciences	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2022	6	145
Evaluation of Different Methods for the Detection of Anti-Thyroglobulin Autoantibody: Prevalence of Anti-Thyroglobulin Autoantibody and Anti-Microsomal Autoantibody in Thyroid Cancer Patients	Gholwe C., Radiation Medicine and Nuclear Physics	Life Sciences	Indian Journal of Clinical Biochemistry	2022	0	50
Investigations of cathodic reactions using cyclic voltammetry and electrochemical behavior of Ti-Al-Zr alloy in nitric acid using electrochemical impedance spectroscopy	Sinha P.K., Homi Bhabha National Institute	Engineering Sciences	Journal of Applied Electrochemistry	2022	2	122
Room temperature ppb level detection of chlorine using peripherally alkoxy substituted phthalocyanine/SWCNTs based chemiresistive sensors	Sharma A.K., Material Science Laboratory	Physical Sciences	Sensors and Actuators B: Chemical	2022	7	233
Anomalous de-phasing of quantum coherence phenomenon in superconductor/topological insulator (NbN/Bi _{1.95} Sb _{0.05} Se ₃) heterostructure	Amaladass E.P., Condensed Matter Physics	Physical Sciences	Physica B: Condensed Matter	2022	1	124
Emergence of triangular features on ion irradiated silicon (100) surface	Hans S., Institute for Plasma Research	Physical Sciences	Surface Science	2022	6	155
Developing atomistic glass models using potential-free Monte Carlo method: From simple to complex structures	Singh S., Materials Science Group	Physical Sciences	Computational Materials Science	2022	0	135
DNA methylation mediated downregulation of histone H3 variant H3.3 affects cell proliferation contributing to the development of HCC	Reddy D., Epigenetics and Chromatin	Life Sciences	Biochimica et Biophysica Acta - Molecular Basis of Disease	2022	4	175
Studies on Schottky Barrier Diodes Fabricated using Single-Crystal Wafers of β -Ga ₂ O ₃ Grown by the Optical Floating Zone Technique	Dhanabalan D., Crystal Growth and Characterization	Physical Sciences	Physica Status Solidi (B) Basic Research	2022	5	116
Association and functional significance of genetic variants present in regulatory elements of SERPINB5 gene in gallbladder cancer	Sinha K.K., National Institute of Cancer Research	Life Sciences	Gene	2022	1	188
Light emission of Lu ₂ Sn ₂ O ₇ pyrochlore driven by oxygen vacancy and local site engineering	Gupta S.K., Radiochemistry Division	Chemical Sciences	Journal of Alloys and Compounds	2022	1	200
Development of grape pomace extract based edible coating for shelf life extension of pomegranate arils	Saurabh C.K., Food Technology and Quality Assurance	Life Sciences	Journal of Food Measurement and Characterization	2022	2	37
A CFD-based approach to optimize operating parameters of a flow-through scintillation cell for measurement of ²²⁰ Rn in indoor environments	Agarwal T.K., Homi Bhabha National Institute	Physical Sciences	Environmental Science and Pollution Research	2022	2	154
Elevated CEA with negative PET scan on surveillance of colorectal cancers—a role of CEA kinetics	Thomas A.E., Department of Surgery	Medical and Health Sciences	Langenbeck's Archives of Surgery	2022	1	80
Scandium decorated C ₂₄ fullerene as high capacity reversible hydrogen storage material: Insights from density functional theory simulations	Mahamiya V., Indian Institute of Technology	Physical Sciences	Applied Surface Science	2022	33	219
Endoscopic management of postesophagectomy leak with modified clip-and-loop technique	Sundaram S., Department of Digestive Surgery	Medical and Health Sciences	Endoscopy	2022	0	157
Electrochemical separation of ¹³² I/ ¹³⁵ Ia theranostic pair from proton irradiated Ba target	Chakravarty R., Radiopharmacy	Chemical Sciences	Separation and Purification Technology	2022	4	101
Bladder preserving robotic pelvic exenteration for locally advanced rectal cancer-technique and short-term outcomes	Jaganmurugan R., Division of Colorectal Surgery	Medical and Health Sciences	Journal of Surgical Oncology	2022	1	120
Theoretical model study of adsorbed antimalarial-graphene dimers: doping effects, photophysical parameters, intermolecular interactions, edge adsorption, and SERS	Ullah Z., Department of Chemistry	Physical Sciences	Journal of Biomolecular Structure and Dynamics	2022	12	81
Facile fabrication of robust superhydrophobic aluminum surfaces with enhanced corrosion protection and antifouling properties	Rasitha T.P., Corrosion Science and Technology	Physical Sciences	Progress in Organic Coatings	2022	47	123
Amphiphile conformation impacts aggregate morphology and solution structure across multiple length scales	Servis M.J., Department of Chemistry	Chemical Sciences	Journal of Molecular Liquids	2022	7	150
SDS triggered transformation of highly hydrophobic Pluronic® nanoaggregate into polymer-rich and surfactant-rich mixed micelles	Patel D., Department of Chemistry	Physical Sciences	Journal of Molecular Liquids	2022	7	150
Microstructural, surface morphological, and magnetic properties of oblique angle deposited Co thin films on ion-beam fabricated self-organized Si substrates	Patel S.P., Institute of Physics, Sardar Vallabhbhai Patel Centre for Solid State Research	Physical Sciences	Materials Letters	2022	2	154
Structural, spectroscopic and electron collisional studies of isoxazole (C ₃ H ₃ NO)	Jani T., V.P. & R.P.T.P. Science Centre	Physical Sciences	Chemical Physics	2022	7	129
Electrochemical and calorimetric data for the fluorite trigadolinium ruthenium heptaoxide Gd ₃ RuO ₇ (s)	Banerjee A., Chemical Sciences	Chemical Sciences	Journal of Solid State Electrochemistry	2022	0	94
Studies on structural and dielectric properties of NbO ₂ -Nb ₂ O ₅ thin-film-based devices	Islam K., Saha Institute of Nuclear Physics	Physical Sciences	Vacuum	2022	6	95
Hepatic tuberculosis masquerading as malignancy	Kale A., Department of Digestive Surgery	Medical and Health Sciences	Hepatology International	2022	5	58
Compliance with intubation bundle and complications in critically ill patients: A need to revisit the bundle components!	R.N.P., Department of Critical Care	Medical and Health Sciences	Trends in Anaesthesia and Critical Care	2022	1	21
3,3'-Diselenodipropionic acid (DSePA) forms 1:1 complex with Hg(II) and prevents oxidative stress in cultured cells and mice model	Deshmukh Y., Radiation and Photochemistry	Chemical Sciences	Journal of Inorganic Biochemistry	2022	0	144

Electronic structure investigation of intrinsic and extrinsic defects in LiF	Modak P., Radiological Safety Div	Chemical Sciences	Computational Materials Science	2022	3	135
Global DNA methylation profile at LINE-1 repeats and promoter methylation of genes involved in DNA damage response and repair pathways in human peripheral blood mononuclear cells in response to γ -radiation	Priya R., Low Level Radiation Res	Life Sciences	Molecular and Cellular Biochemistry	2022	2	132
A correlation of piezoelectricity and photoluminescence of europium doped (Na _{0.41} K _{0.09} B _{0.5})TiO ₃ with ferroelectric and structural ordering	Yadav P., Homi Bhabha National	Physical Sciences	Ceramics International	2022	6	140
Microfluidic extraction of uranium from dilute streams using TIAP in ionic liquid as the solvent	Sen N., Chemical Engineering Div	Engineering Sciences	Chemical Engineering Research and Design	2022	7	117
Audit of Demographics, Treatment Patterns and Outcomes of Differentiated Thyroid Cancers Treated with Tyrosine Kinase Inhibitors	Choudhary A.K., Department of	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	0	21
Treatment of Pea Seeds with Plasma Activated Water to Enhance Germination, Plant Growth, and Plant Composition	Rathore V., Institute for Plasma	Chemical Sciences	Plasma Chemistry and Plasma Processing	2022	17	72
Transient thermal characteristics of submerged vertical heater under seismic excitation	Chauhan S.P., Engineering Scienc	Engineering Sciences	Experimental Heat Transfer	2022	2	38
Role of calcium ion channels and cytoskeletal proteins in Thorium-232 induced toxicity in normal human liver cells (WRL 68) and its validation in swiss mice	Yadav R., Radiation Biology & He	Life Sciences	Chemosphere	2022	2	288
Development of a certified reference material (CRM) for seven trace elements (Al, Ca, Fe, K, Mg, Na and Ti) in high purity quartz	Prasad A.D., National Centre for	Chemical Sciences	Microchemical Journal	2022	7	99
Palladium-Catalyzed Synthesis of α -Methyl Ketones from Allylic Alcohols and Methanol	Biswal P., School of Chemical Sci	Chemical Sciences	Advanced Synthesis and Catalysis	2022	5	168
Comprehensive immune cell profiling depicts an early immune response associated with severe coronavirus disease 2019 in cancer patients	Tembhare P.R., Hematopatholog	Medical and Health Sciences	Immunology and Cell Biology	2022	5	117
Resistive switching properties and photoabsorption behavior of Ti ion implanted ZnO thin films	Manna A.K., Institute of Physics,	Physical Sciences	Ceramics International	2022	3	140
Investigation on Tribological Behavior of Hot-Pressed Steel/TiB ₂ Composites Using Taguchi Experimental Design	Sahoo S., Advanced Materials Te	Engineering Sciences	Journal of Materials Engineering and Performance	2022	0	78
Radical D2 gastrectomy with adjuvant chemotherapy for stage IB/II/III distal gastric cancers in the era of perioperative chemotherapy: A propensity matched comparison	Singh H.K., Gastrointestinal and	Medical and Health Sciences	American Journal of Surgery	2022	3	163
Genetic diversity, allelic variation and marker trait associations in gamma irradiated mutants of rice (<i>Oryza sativa</i> L.)	Ramchander S., Department of	Life Sciences	International Journal of Radiation Biology	2022	4	97
Preparation and characterization of methylated guar gum based nano-composite films	Tripathi J., Food Technology Div	Life Sciences	Food Hydrocolloids	2022	10	191
Swift heavy ion beam stimulated epitaxial recrystallization of Si/SiO ₂ heterostructure	Bhakta S., School of Physical Sci	Physical Sciences	Materials Letters	2022	0	166
Immersing ampoule Sankaranarayanan-Ramasamy (ISR) method: Unidirectional high-quality single crystal growth	Karuppusamy P., SSN Research C	Physical Sciences	Journal of Crystal Growth	2022	1	159
Preparation and characterization of colloidal Pd ₁₇ Se ₁₅ nanoparticles from a novel Pd(II) pyridyl selenoether molecular precursor	Karmakar G., Chemistry Division,	Chemical Sciences	Inorganica Chimica Acta	2022	1	105
Influence of carbonaceous species entered during arc plasma synthesis on the stoichiometry of LaB ₆	Kamble S.A., Department of Phy	Physical Sciences	Physica B: Condensed Matter	2022	2	124
Computed Tomography-Based Interstitial Brachytherapy for Recurrent Cervical Carcinoma in the Vaginal Apex	Engineer R., Department of Radi	Medical and Health Sciences	Clinical Oncology	2022	1	85
Feasibility of Delivering High-Dose Methotrexate in Adolescent and Adult All Patients: A Retrospective Study	Shenoy R., Department of Medic	Medical and Health Sciences	Indian Journal of Hematology and Blood Transfusion	2022	0	20
Surgical Site Infections in patients undergoing major oncological surgery during the COVID-19 pandemic (SCION): A propensity-matched analysis	Pantvaldiya G., Department of Su	Medical and Health Sciences	Journal of Surgical Oncology	2022	9	120
Monosaccharide-induced growth and higher order transitions in TPGS micelles	Rathod S., UKA Tarsadia Universi	Physical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	5	187
Morphogen-regulated contact-mediated signaling between cells can drive the transitions underlying body segmentation in vertebrates	Kuyyamuadi C., The Institute of M	Physical Sciences	Physical Biology	2022	3	72
Characterization of deuterated titanium thin film by residual gas analyzer	Das B.K., Pulse Power and Electri	Engineering Sciences	Vacuum	2022	2	95
An atomistic analysis of the effect of grain boundary and the associated deformation mechanisms during plain strain compression of a Cu bicrystal	Chandra S., Refueling Technolog	Engineering Sciences	Computational Materials Science	2022	2	135
Se ²⁺ -O/S and S ²⁺ -O Chalcogen Bonds in Small Molecules and Proteins: A Combined CSD and PDB Study	Biswal H.S., School of Chemical S	Chemical Sciences	ChemBioChem	2022	18	135
Anticancer potential of Pd and Pt metallo-macrocycles of phosphines and 4,4'-dipyridylselenide	Pal M.K., Chemistry Division, Bha	Chemical Sciences	Polyhedron	2022	4	106
Separation of niobium and tantalum using continuous multistage counter-current solvent extraction with trioctyl amine	Dutta S., Chemical Engineering D	Engineering Sciences	Hydrometallurgy	2022	2	130
Development of a rapid method for extraction of uranium from uranium bearing materials using ionic liquid as extracting agent from basic media	Ravi K.P., Radiation Safety Syste	Engineering Sciences	Applied Radiation and Isotopes	2022	4	85
Determination of Electron Temperature of Pulsed Washer Gun-Generated Argon Plasma by Corona Model	Das P., Ravenshaw University, Di	Physical Sciences	Fusion Science and Technology	2022	0	57
Au nanoparticle modified GO/PEDOT-PSS based immunosensor probes for sensitive and selective detection of serum immunoglobulin g (IgG)	Medhi A., Department of Physic	Engineering Sciences	Applied Surface Science	2022	11	219
Is nitrogen in ammonia an elusive electron accepting pnicogen in a predominantly phosphorus bonded PC ₃ -NH ₃ dimer?	Chandra S., Homi Bhabha Nation	Chemical Sciences	Chemical Physics Letters	2022	3	248
Interaction of krypton and xenon with sodium and activated charcoal: Identification and modeling using gas chromatography and density functional theory	Ramanathan N., Materials Chem	Chemical Sciences	Journal of Nuclear Materials	2022	1	187
Impact of Adjuvant Treatment in pN3 Penile Cancer	Khurud P., Department of Radiat	Medical and Health Sciences	Clinical Oncology	2022	5	85
Effect of Cold Atmospheric Plasma Jet and Gamma Radiation Treatments on Gingivobuccal Squamous Cell Carcinoma and Breast Adenocarcinoma Cells	Pansare K., Institute for Plasma	Life Sciences	Plasma Chemistry and Plasma Processing	2022	4	72
Prospective evaluation of EDXRF for studying the cation exchange membrane separation of Co from Zn in oxalic acid media and comparison with radiotracer experiments	Chavan T.A., Analytical Chemist	Chemical Sciences	Applied Radiation and Isotopes	2022	0	85

Impact of urbanization on boundary-layer parameters and mesoscale circulations over tropical coastal city, Chennai	Rajeswari J.R., Health, Safety and	Physical Sciences	Meteorology and Atmospheric Physics	2022	2	69
Pyridine diglycolamide: A novel ligand for plutonium extraction from nitric acid medium	Sinharoy P., Process Developme	Chemical Sciences	Separation and Purification Technology	2022	1	105
Improvement of Performance Characteristics for LiI:Ag Single-Crystal Scintillators by Defect Structure Tailoring Using Sr Codopant	Sonu, Technical Physics Division,	Physical Sciences	Physica Status Solidi (A) Applications and Materials Science	2022	3	113
Red Cell Distribution Width and Gallbladder Cancer: Is It Really Useful?	Kattepur A.K., Department of Su	Medical and Health Sciences	Journal of Gastrointestinal Cancer	2022	1	30
Lattice dynamics of zircon-type NdVO ₄ and scheelite-type PrVO ₄ under high-pressure	Marqueno T., Departamento de	Chemical Sciences	Journal of Physics Condensed Matter	2022	4	244
Broadband dielectric spectroscopy and small-angle neutron scattering investigations of chitosan-graphene-silver metamaterials	Somanathan S., Department of	Physical Sciences	Journal of Materials Science: Materials in Electronics	2022	0	88
Further contributions to the dynamics of a freely rotating elliptical particle in shear flow	Ding Z., Cain Department of Che	Engineering Sciences	Canadian Journal of Chemical Engineering	2022	1	75
Effects of pseudopotentials and exchange-correlation functionals on phase transition of LaH ₁₀	Sura S., High Pressure and Synch	Physical Sciences	Solid State Communications	2022	1	139
Identification of a novel mutation in thyroxine-binding globulin (TBG) gene associated with TBG-deficiency and its effect on the thyroid function	Gawandi S., Radiation Medicine	Life Sciences	Journal of Endocrinological Investigation	2022	2	95
Dexamethasone 12 mg versus 6 mg for patients with COVID-19 and severe hypoxaemia: a pre-planned, secondary Bayesian analysis of the COVID STEROID 2 trial	Granhölm A., Department of Inti	Medical and Health Sciences	Intensive Care Medicine	2022	44	229
A novel approach of precipitation of Ammonium Di-Uranate (ADU) by sonochemical route	Paik S., Uranium Extraction Divi	Chemical Sciences	Progress in Nuclear Energy	2022	4	74
On the Effects of H ₂ and Ar on Dual Layer Formed by Plasma Nitrocarburizing on Austenitic Stainless Steels	Sah J., Institute for Plasma Rese	Engineering Sciences	Journal of Materials Engineering and Performance	2022	2	78
Incidence of SARS-CoV-2 infection among asymptomatic patients undergoing preoperative COVID testing prior to cancer surgery: ASPECT study	Patkar S., Department of Surgica	Medical and Health Sciences	Journal of Surgical Oncology	2022	3	130
Mechanism of reactivity enhancement of thermal denitration route uranium oxide by employing reduction-oxidation-reduction cycle	Kumar R., Uranium Extraction Di	Engineering Sciences	Journal of Nuclear Materials	2022	0	157
Novel Levilactobacillus brevis-based formulation for controlling cell proliferation, cell migration and gut dysbiosis	Mahanta S., School of Biotechno	Life Sciences	LWT	2022	1	158
Sub-space iteration based Monte Carlo scheme for simultaneous computation of multiple dominant k-eigenmodes and acceleration of fission source iterations	Mallick A.K., Homi Bhabha Natio	Physical Sciences	Annals of Nuclear Energy	2022	4	77
An atlas of fragrance chemicals in children's products	Ravichandran J., The Institute of	Life Sciences	Science of the Total Environment	2022	2	107
Structural stability and anharmonicity of phonon modes of metastable ZnV ₂ O ₉ : In-situ Raman spectroscopic investigation	Kesari S., Solid State Physics Divi	Chemical Sciences	Journal of Alloys and Compounds	2022	2	200
Rectangular dark pulses in all-normal dispersion fiber oscillator	Paul N., Laser Technology Divisi	Physical Sciences	Optics and Laser Technology	2022	3	96
Groundwater flow simulation in a confined aquifer using Local Radial Point Interpolation Meshless method (LRPIM)	Swetha K., Homi Bhabha Natio	Physical Sciences	Engineering Analysis with Boundary Elements	2022	5	30
Effects of laser bandwidth and Autler-Townes doublet peaks of neighboring isotopes on the ionization lineshape of ¹⁶⁸ Yb isotope	Kumar P.V.K., National Centre fo	Physical Sciences	Journal of Quantitative Spectroscopy and Radiative Transfer	2022	0	116
Effect of process parameters on the recovery of thorium tetrafluoride prepared by hydrofluorination of thorium oxide, and their optimization	Kumar R., Uranium Extraction Di	Engineering Sciences	Nuclear Engineering and Technology	2022	0	14
Study of variation of activation energy barrier with grain boundary misorientations associated with dislocation nucleation from different grain boundaries in Ni	Chandra S., Refueling Technolog	Engineering Sciences	Philosophical Magazine	2022	0	100
On approximating MIS over B1-VPG graphs	Lahiri A., CSA Department, India	Mathematical Sciences	Discrete Mathematics, Algorithms and Applications	2022	0	21
Dynamics of a single bubble rising in a quiescent medium	Hoque M.M., ARC Centre of Exce	Engineering Sciences	Experimental Thermal and Fluid Science	2022	6	128
On the table-like magnetocaloric effect, microstructure and mechanical properties of LaFe _{11.6} Si _{1.4} system	Kavita S., International Advance	Physical Sciences	Journal of Alloys and Compounds	2022	6	200
Plakophilin3 loss leads to increased adenoma formation and rectal prolapse in APC ^{min} mice	Raghavan R., Cell and Tumor Bio	Life Sciences	Biochemical and Biophysical Research Communications	2022	3	202
Measurement of shock velocity and temperature in laser-shocked carbon disulphide using time-resolved Raman spectroscopy	Chaurasia S., High Pressure and S	Physical Sciences	Journal of Quantitative Spectroscopy and Radiative Transfer	2022	2	116
Crystal Structure of VpsR Revealed Novel Dimeric Architecture and c-di-GMP Binding Site: Mechanistic Implications in Oligomerization, ATPase Activity and DNA Binding	Chakraborty T., Crystallography	Life Sciences	Journal of Molecular Biology	2022	6	285
Unravelling 30 ka recharge history of an intensely exploited multi-tier aquifer system in North West India through isotopic tracers – Implications on deep groundwater sustainability	Roy A., Isotope and Radiation Ap	Chemical Sciences	Science of the Total Environment	2022	2	107
Fine tuning of hydrogen bond strength in crystals: a case study of O–H–O hydrogen bond in ammonium substituted potassium dihydrogen phosphate	Choudhury R.R., Solid State Phys	Physical Sciences	Molecular Physics	2022	1	114
Pore interconnectivity and surface accessibility in stiffened mixed linker MOFs: An investigation using variable energy positron spectroscopy	Utpalla P., Radiochemistry Divisi	Chemical Sciences	Journal of Solid State Chemistry	2022	4	154
A tetracationic aggregation induced emission-based probe for efficient and improved detection of Heparin	Pandey S.P., Amity Institute of B	Chemical Sciences	Sensors and Actuators B: Chemical	2022	10	223
X-ray photoemission studies of the interaction of metals and metal ions with DNA	Mishra E., Department of Physic	Physical Sciences	Zeitschrift für Physikalische Chemie	2022	3	53
Unique functional insights into the antioxidant response of the cyanobacterial Mn-catalase (KatB)	Chakravarty D., Molecular Biolog	Life Sciences	Free Radical Biology and Medicine	2022	4	289
Kinetics of charged polymer collapse in poor solvents	Ghosh S., The Institute of Mathe	Physical Sciences	Journal of Physics Condensed Matter	2022	1	244
A study on indoor radon, thoron and their progeny level in Mokochung district of Nagaland, India	Jamir S., Department of Chemist	Physical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	7	71
Utilization of thermal neutron induced in-situ chain reactions and the (n,p) reaction with fast neutrons for compositional characterization of lithium titanate	Ghosh M., Analytical Chemistry	Chemical Sciences	Analitica Chimica Acta	2022	0	226

Experimental & numerical study of different orifice configurations for helical coil Once Through Steam Generator	Prakash A., Bhabha Atomic Rese	Engineering Sciences	Progress in Nuclear Energy	2022	1	74
Structural and electronic properties of Fe-Zr intermetallics incorporating s-, p- and d-block fission metals	Ali K., Glass and Advanced Mate	Engineering Sciences	Journal of Nuclear Materials	2022	1	189
Gelatin grafted Fe3O4 based curcumin nanoformulation for cancer therapy	Dutta B., Chemistry Division, Bha	Chemical Sciences	Journal of Drug Delivery Science and Technology	2022	9	63
Potential of indigenous plant species for phytoremediation of arsenic contaminated water and soil	Singh S., Nuclear Agriculture & B	Life Sciences	Ecological Engineering	2022	16	110
The tunable 0 - 7 qubit: Dynamics and relaxation	Rajpoot G., Theoretical Nuclear I	Physical Sciences	International Journal of Quantum Information	2022	2	42
X-ray fluorescence analysis of air particulate matter generated at a welding site	Ghosh M., Analytical Chemistry U	Chemical Sciences	Spectrochimica Acta - Part B Atomic Spectroscopy	2022	1	124
CIPK9 targets VDACC3 and modulates oxidative stress responses in Arabidopsis	Kanwar P., Department of Plant	Life Sciences	Plant Journal	2022	8	100
Insights on the role of defects on the magnetic and magneto electric coupling effects in nano BiFeO3	Panda A., Materials Science Gro	Physical Sciences	Journal of Alloys and Compounds	2022	2	200
Study of deuterification of kinetically arrested magnetic phase and magnetocaloric effect for nanocrystalline Pr0.65(Ca0.75r0.3)0.35MnO3 compound	Karikar A., CMP Division, Saha In	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	0	187
Enhancing biological nitrogen and phosphorus removal performance in aerobic granular sludge sequencing batch reactors by activated carbon particles	Sarvajith M., Biofouling and Biof	Life Sciences	Journal of Environmental Management	2022	18	218
Effect of laser intensity redistribution on semiconductor plasma based THz emission	Varshney P., Institute for Plasma	Physical Sciences	Optik	2022	7	92
Study on pore size distributions of microporous polymer membranes having different physical architecture using capillary flow porometry	Agarwal C., Radiochemistry Divis	Chemical Sciences	Materials Today Chemistry	2022	2	48
Facile synthesis, morphological, structural, photocatalytic and optical properties of ZnFe2O4-ZnO hybrid nanostructures	Choudhary S., University School	Physical Sciences	Journal of Alloys and Compounds	2022	19	200
Direct observation of adsorption and desorption of ds-DNA on graphene oxide and graphene oxide-gold nanoparticle hybrid material: A kinetic-mechanistic investigation	Paul T., Single Molecule Biophys	Chemical Sciences	Applied Surface Science	2022	4	219
Facile synthesis of Super-paramagnetic Au @ α -Fe2O3 hybrid nanoparticle and its assembly on graphene substrate for visible light Photo-catalysis	Sahoo R.K., Institute of Physics, S	Physical Sciences	Applied Surface Science	2022	9	219
Determination of the uranium elemental concentration in molten salt fuel using laser-induced breakdown spectroscopy with partial least squares-artificial neural network hybrid models	Sarkar A., Fuel Chemistry Divisio	Chemical Sciences	Spectrochimica Acta - Part B Atomic Spectroscopy	2022	6	124
Residual stress distribution and elevated temperature fatigue behaviour of laser peened Ti-6Al-4V with a curved surface	Praveenkumar K., School of Mec	Engineering Sciences	International Journal of Fatigue	2022	16	145
MusaATAF2 like protein, a stress-related transcription factor, induces leaf senescence by regulating chlorophyll catabolism and H2O2 accumulation	Bhakta S., Plant Cell Culture Tec	Life Sciences	Physiologia Plantarum	2022	6	160
The studies on the tribological performance, characterization and mechanical properties of W-2Ni-1Fe (wt%) alloy	Paul B., Materials Group, Bhabha	Engineering Sciences	International Journal of Refractory Metals and Hard Materials	2022	6	95
Effect of Electropulsing on Nanostructured Bainitic Steel	Agarwal M., Department of Met	Engineering Sciences	Journal of Materials Engineering and Performance	2022	0	78
International Expert Consensus on Precision Anatomy for minimally invasive distal pancreatectomy: PAM-HBP Surgery Project	Ban D., Department of Hepatobi	Medical and Health Sciences	Journal of Hepato-Biliary-Pancreatic Sciences	2022	6	60
Analysis on down converting Sm3+-incorporated TiO2 mesoporous nanostructures for DSSC applications	Yogeswari S., Materials Research	Chemical Sciences	Journal of Materials Science: Materials in Electronics	2022	0	88
Temperature influence on the formation of triangular features superimposed on nanoripples produced by low-energy ion beam	Hans S., Institute for Plasma Res	Physical Sciences	Surfaces and Interfaces	2022	2	49
Performance optimization of indirectly heated cathode based electron gun by controlling high voltage surface flashover and beam positioning at target plane	Goel V., Homi Bhabha National I	Engineering Sciences	Vacuum	2022	3	95
Simultaneous and sequential state and parameter estimation using receding-horizon nonlinear Kalman filter	Rangegowda P.H., Bhabha Atom	Engineering Sciences	Journal of Process Control	2022	4	124
Room temperature multiferoicity with enhanced ferroelectric and ferromagnetic properties in Ba0.75Pb0.25Ti1-xFexO3	Amin R., Department of Physics,	Physical Sciences	Journal of Alloys and Compounds	2022	1	200
Solubility studies on 2-hydroxyisobutyric acid in supercritical carbon dioxide: Solubility evaluation and application to actinide extraction	Deepitha J., Homi Bhabha Natior	Chemical Sciences	Separation and Purification Technology	2022	0	105
Studies on localized electrochemical activity of 304L SS-Zr-4 dissimilar joints using alternating current scanning electrochemical microscopy	Pal A., Homi Bhabha National Ins	Physical Sciences	Applied Surface Science	2022	4	219
Synthesis and aggregation behavior of novel biosurfactants choline cholate and choline deoxy cholate	Bhawal S.S., School of Science, N	Chemical Sciences	Journal of Molecular Liquids	2022	1	150
Mitigation of methanol inactivation of lipases by reaction medium engineering with glycine betaine for enzymatic biodiesel synthesis	Sandaka B.P., Nuclear Agricultur	Life Sciences	Fuel	2022	7	243
Comparative study of functional outcomes between ultra-low anterior resection and intersphincteric resection: a propensity matched analysis	Gori J., Department of Colorecta	Medical and Health Sciences	ANZ Journal of Surgery	2022	4	78
Ag nanowires based SERS substrates with very high enhancement factor	Francis M.K., SSN Research Cent	Chemical Sciences	Physica E: Low-Dimensional Systems and Nanostructures	2022	7	106
International expert consensus on precision anatomy for minimally invasive pancreatoduodenectomy: PAM-HBP surgery project	Nagakawa Y., Department of Ga	Medical and Health Sciences	Journal of Hepato-Biliary-Pancreatic Sciences	2022	12	60
Nature-inspired green method decorated MXene-based composite membrane for high-efficiency oil/water separation	Liu Y., State Key Laboratory of O	Chemical Sciences	Separation and Purification Technology	2022	37	191
Positron beam studies on the irradiation response of FeCrCoNi upon He ion implantation	Abhaya S., Materials Science Gro	Physical Sciences	Journal of Alloys and Compounds	2022	3	200
Control of post-harvest storage losses in water chestnut (Trapa bispinosa Roxburg) fruits by natural functional herbal coating and gamma radiation processing	Hussain N., Department of Food	Life Sciences	Journal of Food Science and Technology	2022	2	94
Exploring yttrium doped C24 fullerene as a high-capacity reversible hydrogen storage material: DFT investigations	Mahamiya V., Indian Institute of	Physical Sciences	Journal of Alloys and Compounds	2022	38	200
Effect of heating rate and precursor composition on secondary phase formation during Cu2ZnSnS4 thin film growth and its properties	Agarwal S., Institute for Plasma	Physical Sciences	Thin Solid Films	2022	2	206

High thermopower and birefringence in layered mercury-based halides	Sahoo S.S., Department of Physics	Physical Sciences	Materials Today Communications	2022	0	42
Molecular characterization of substrate-induced ubiquitin transfer by UBR7-PHD finger, a newly identified histone H2BK120 ubiquitin ligase	Dasgupta A., Structural Biology	Life Sciences	FEBS Journal	2022	2	222
Laser-assisted removal of weld heat tints from stainless steel surface	Kumar A., Fuel Fabrication, Bhabha Atomic Research Centre	Physical Sciences	Journal of Laser Applications	2022	2	64
Efficient near infrared to visible light upconversion from Er/Yb codoped PVDF fibrous mats synthesized using a direct polymer doping technique	Bose S., Mechanical Engineering	Chemical Sciences	Optical Materials	2022	6	113
Redox and emission characteristics of Eu ³⁺ in deep eutectic solvent: Unraveling the hidden potential of DES as luminescent media	Jayachandran K., Fuel Chemistry	Chemical Sciences	Journal of Molecular Structure	2022	1	117
Experimental proof for σ and n -hole driven dual pnictogen bonding in phosphonyl chloride-nitromethane heterodimers: A combined matrix isolation infrared and ab initio computational studies	Mahapatra N., Homi Bhabha National Institute	Chemical Sciences	Journal of Molecular Structure	2022	5	117
Inductive graph invariants and approximation algorithms	Subramanian C.R., The Institute of Mathematical Sciences	Mathematical Sciences	Discrete Mathematics, Algorithms and Applications	2022	0	21
Isothermal stress reorientation of hydrides in Zr-2.5Nb pressure tube alloy	Murty T.N., Mechanical Metallurgy	Engineering Sciences	Journal of Nuclear Materials	2022	0	159
Thermal properties of hot and dense medium in interacting hadron resonance gas model	Sahoo S., Siksha 'O' Anusandhan	Physical Sciences	Nuclear Physics A	2022	1	170
Arsenic distribution in sediments of multi-tier sedimentary formation of coastal Pondicherry, India – Implications on groundwater quality	Keesari T., Isotope Hydrology Section	Chemical Sciences	Marine Pollution Bulletin	2022	3	210
Microbiota transplantation from younger to older mice could restore lost immunity to effectively clear salmonella infection in Th2-biased BALB/c mice	Pradhan S., School of Biological Sciences	Life Sciences	Life Sciences	2022	1	182
Vacuum ultraviolet photoabsorption spectra of icy isoprene and its oligomers	Ramachandran R., Physical Research Laboratory	Physical Sciences	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2022	1	146
Optically sensitive isolated silver nano-dots development by broad ion implantation on nitrogen ion-induced pre-patterned silicon nano-templates	Bhowmik S., Ion Beam Development	Physical Sciences	Applied Surface Science	2022	2	219
A Combinatorial Approach to Reliable Quantitative Analysis of Small Nano-Sized Precipitates: A Case Study with α' Precipitates in Fe-20 at% Cr Alloy	Sarkar S.K., Materials Science Division	Engineering Sciences	Microscopy and Microanalysis	2022	1	76
Comparison of different autoanalyzers for the determination of lymphocyte and neutrophil counts in mouse blood	Gupta S.K., Department of Clinical Biochemistry	Life Sciences	Drug Metabolism and Personalized Therapy	2022	0	37
Sonocatalytic recovery of ceria from graphite and inhibition of graphite erosion by ionic liquid based platinum nanocatalyst	Lahiri S., Laser & Plasma Technology	Engineering Sciences	Ultrasonics Sonochemistry	2022	4	156
Effect of sp hybridization and bond-length disorder on magnetism in amorphous carbon- A first-principles study	Thakur B., UGC DAE Consortium	Physical Sciences	Diamond and Related Materials	2022	4	121
Expression of non-homologous end joining factor, Ku80, is negatively correlated with PD-L1 expression in cancer cells after X-ray irradiation	Kumazawa T., Department of Radiation Oncology	Medical and Health Sciences	Oncology Letters	2022	4	71
Structural and physical characterizations of an organic Dispro-Oxidopyrrolidines single crystal for magnetic applications	Vimala G., Bhaktavatsalam Memorial Institute of Technology	Chemical Sciences	Journal of Molecular Structure	2022	0	117
The Polyakov loop dependence of bulk viscosity of QCD matter	Mukhopadhyay D., Variable Energy Physics	Physical Sciences	Nuclear Physics B	2022	0	260
Post-cricoid and Upper Oesophagus Cancers Treated with Organ Preservation Using Intensity-modulated image-guided radiotherapy: a Phase II Prospective Study of Outcomes, Toxicity and Quality of Life	Laskar S.G., Department of Radiation Oncology	Medical and Health Sciences	Clinical Oncology	2022	0	85
The clinical utility and safety of short-course immune checkpoint inhibitors in multiple tumours—A real-world multicentric study from India	Abraham G., Department of Medical Oncology	Medical and Health Sciences	International Journal of Cancer	2022	4	254
Synthesis, photophysical properties and catalytic activity of K3-SCS pincer palladium (II) complex of N,N'-di-tert-butylbenzene-1,3-dicarbothioamide supported by DFT analysis	Das D., Waste Management Division	Chemical Sciences	Inorganica Chimica Acta	2022	2	106
Enhanced B-site cation ordering and improved magnetic properties: Role of A-site Bi substitution in La ₂ NiMnO ₆ double perovskites	Nasir M., Department of Physics	Physical Sciences	Journal of Alloys and Compounds	2022	3	200
Learning curve analysis for lateral pelvic lymph node dissection in rectal cancers – Outcomes improve with experience	Sukumar V., Division of Colorectal Surgery	Medical and Health Sciences	European Journal of Surgical Oncology	2022	4	110
A sensitive vesicle mediated dispersive liquid-liquid microextraction of parts per quadrillion levels of beryllium from seawater samples prior to graphite furnace atomic absorption spectrometry determination	Krishna D.S., National Centre for Environmental Monitoring	Chemical Sciences	Analytica Chimica Acta	2022	2	224
Experimental investigations on electrical-insulation performance of Al ₂ O ₃ coatings for high temperature PBJ liquid metal applications	Saraswat A., Institute for Plasma Physics	Physical Sciences	Annals of Nuclear Energy	2022	0	77
Induced variability and assessment of mutagenic effectiveness and efficiency in sorghum genotypes [Sorghum bicolor (L.) Moench]	Kalpande H.V., Department of Agriculture	Life Sciences	International Journal of Radiation Biology	2022	1	97
Stabilization of UO ₂ ²⁺ in SrHfO ₃ perovskite and probing defects, local structure and photo/thermoluminescence	Gupta S.K., Radiochemistry Division	Chemical Sciences	Journal of Luminescence	2022	2	126
Radiation necrosis of the bone, cartilage or cervical soft-tissues following definitive high-precision radio(chemo)therapy for head-neck cancer: an uncommon and under-reported phenomenon	Gupta T., Department of Radiation Oncology	Medical and Health Sciences	Journal of Laryngology and Otology	2022	0	72
Conservation of natural Uranium by inter unit transfer of fuel in PHWRs	Bansal R.K., Amity Institute of Nuclear Energy	Physical Sciences	Annals of Nuclear Energy	2022	0	77
Development of laser based OSL reader for its potential application in radiation dosimetry	Soni A., Radiological Physics and Chemistry	Medical and Health Sciences	Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Matter and Atoms	2022	0	127
Phase behaviour and characterization of micelles of graft copolymer Soloplus® and non-ionic surfactant Solutol® HS15: A detailed comparison in the presence of additives	Chakrabarti C., School of Science	Physical Sciences	Journal of Molecular Liquids	2022	4	150
CFD modelling of mass transfer in liquid-liquid core-annular flow in a microchannel	Chaurasiya R.K., Homi Bhabha National Institute	Engineering Sciences	Chemical Engineering Science	2022	7	209
Functionalized nano-MOF for NIR induced bacterial remediation: A combined spectroscopic and computational study	Hasan M.N., Department of Chemistry	Physical Sciences	Inorganica Chimica Acta	2022	4	106
Realizing topological states in type-II Dirac semimetal PtTe ₂ : an angle-resolved photoemission and quantum oscillations study	Nag J., Department of Physics, Indian Institute of Technology	Physical Sciences	Bulletin of Materials Science	2022	1	81
Management of acute atrial fibrillation in the intensive care unit: An international survey	Wetterslev M., Department of Intensive Care Medicine	Medical and Health Sciences	Acta Anaesthesiologica Scandinavica	2022	3	118
In vitro solubilization of antibiotic drug sulfamethazine: An investigation on drug-micelle aggregate formation by spectroscopic and scattering techniques	Mavani A., Department of Chemistry	Physical Sciences	Journal of Surfactants and Detergents	2022	1	65

98/100Mo enrichment by infrared multi-photon dissociation of MoF6	Sai Prasad M.B., Laser and Plasma	Physical Sciences	Chemical Physics Letters	2022	1	248
Geometric systems of unbiased representatives	Banik A., School of Computer Sci	Mathematical Sciences	Information Processing Letters	2022	0	42
Oxidation and dissolution behavior of UZr alloys for aqueous reprocessing applications	Sreenivasulu B., Materials Chemi	Chemical Sciences	Progress in Nuclear Energy	2022	1	74
Evaluation of tensile properties using uni-axial and ball indentation testing and correlation with microstructure variations across the 316LN stainless steel weld joints	Ragavendran M., Homi Bhabha N	Engineering Sciences	Materials Science and Engineering: A	2022	5	267
Ultrahigh-flux and self-cleaning composite membrane based on BIOCl-PPy modified MXene nanosheets for contaminants removal from wastewater	Cheng X., College of Life Science,	Chemical Sciences	Journal of Membrane Science	2022	16	282
Effect of manganese on the speciation of neptunium(V) on manganese doped magnetites	Kumar S., Radioanalytical Chemi	Chemical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	2	187
Depth profiling of energetic Au ions inside P-type Si (1 0 0) substrate	Akhilak Alam M., Synchrotrons U	Physical Sciences	Applied Surface Science	2022	1	219
Neoadjuvant therapy in borderline resectable pancreatic cancer: Outcomes in the era of changing practices and evolving evidence	Chaudhari V.A., Gastrointestinal	Medical and Health Sciences	Surgery (United States)	2022	2	14
Three-phonon multiplets in 116Sn	Ray P., Saha Institute of Nuclear	Physical Sciences	Nuclear Physics A	2022	0	170
Gliding motility of a uranium-tolerant Bacteroidetes bacterium Chryseobacterium sp. strain PMSZPI: Insights into the architecture of spreading colonies	Khare D., Molecular Biology Divisi	Life Sciences	Environmental Microbiology Reports	2022	0	41
An EBSD based investigation on the deformation mechanisms under HCF-creep interaction in a Ni-based superalloy (alloy 617M)	Sarkar A., Materials Developmen	Engineering Sciences	Materials Science and Engineering: A	2022	5	267
Appraising the factors favouring uranium mobilization and associated health risk assessment in groundwaters of north-western India	Sharma D.A., Isotope Hydrology	Chemical Sciences	Ecotoxicology and Environmental Safety	2022	3	161
Experimental investigation of sedimentation behaviour using cerium oxalate particles in oxalic-nitric acid medium	Panda S.K., Reprocessing Resear	Chemical Sciences	Asia-Pacific Journal of Chemical Engineering	2022	1	41
A computer modelling and its partial experimental validation to study the attenuation of electromagnetic waves in plasma using CST MICROWAVE STUDIO®	Joshi H.B., Institute for Plasma R	Engineering Sciences	Pramana - Journal of Physics	2022	3	18
Observation of novel coexistence of Kondo effect and room temperature magnetism in AlN/AlN trilayer thin film	Nath D., UGC-DAE Consortium fo	Physical Sciences	Current Applied Physics	2022	1	95
Measurements using a prototype array of plastic scintillator bars for reactor based electron anti-neutrino detection	Netrakanti P.K., Nuclear Physics	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A: A	2022	3	176
Nuclear hydrogen production for industrial decarbonization: Creating the business case for the near term	Bhattacharyya R., Board of Studi	Engineering Sciences	International Journal of Energy Research	2022	8	110
Competition between axial anomaly and ferromagnetic ordering in Bi2-xFexSe3-xSx topological insulator: A study of magnetic and magnetotransport properties	Singh R., Solid State Physics Divi	Physical Sciences	Journal of Materiomics	2022	0	51
Simulation of atmospheric flow field over the complex terrain of Kaiga using WRF: sensitivity to model resolution and PBL physics	Aravind A., Homi Bhabha Nation	Physical Sciences	Meteorology and Atmospheric Physics	2022	5	69
A simple approach for fabrication of superhydrophobic titanium surface with self-cleaning and bouncing properties	Rasitha T.P., Corrosion Science a	Physical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	10	187
Representation of equation of state using Massieu entropy function	Ahmedabadi P.M., Materials Pro	Engineering Sciences	Pramana - Journal of Physics	2022	0	18
A simple and convenient choline oxidase inhibition based colorimetric biosensor for detection of organophosphorus class of pesticides	Kaur J., Radiation & Photochemi	Chemical Sciences	Journal of Molecular Liquids	2022	13	150
Correlation of Clinicopathological Profile, Prognostic Factors, and Survival Outcomes with Baseline Alfa-Fetoprotein Levels in Patients With Hepatocellular Carcinoma: A Biomarker that is Bruised but Not Broken	Jearth V., Department of Digestr	Medical and Health Sciences	Journal of Clinical and Experimental Hepatology	2022	1	45
On a theorem of Chernoff on rank one Riemannian symmetric spaces	Ganguly P., Department of Math	Mathematical Sciences	Journal of Functional Analysis	2022	2	108
Unique Eu(III) transport selectivity seen using a supported liquid membrane containing a diglycolamide dendrimer ligand	Mahanty B., Radiochemistry Divi	Chemical Sciences	Separation Science and Technology (Philadelphia)	2022	1	47
RuO2 as promoter in Pt-RuO2-nanostructures/carbon composite, a pH-universal catalyst for hydrogen evolution/oxidation reactions	Panigrahy S., School of Chemical	Chemical Sciences	International Journal of Energy Research	2022	4	110
A druggable pocket on PSMD10Gankyrin that can accommodate an interface peptide and doxorubicin	M G M S., Protein Interaction Lab	Life Sciences	European Journal of Pharmacology	2022	4	197
Numerical analysis of forced convection heat transfer in a nuclear fuel storage vault	Mishra V.K., Homi Bhabha Natio	Engineering Sciences	International Journal of Thermal Sciences	2022	5	118
A probabilistic model for the simulation of radioactivity transport through a heterogeneous porous medium	Sen S., Safety, Quality and Resou	Physical Sciences	Progress in Nuclear Energy	2022	1	74
Half-metallicity in smallest cage-like cluster of CdTe with doping of transition metal atoms	Chavan K.T., Materials Physics Di	Physical Sciences	Materials Today Communications	2022	8	42
Effect of nanowall bunching on surface reflectance and wetting behaviour of silicon nanowall architectures	Behera A.K., Surface and Nanosc	Physical Sciences	Nano-Structures and Nano-Objects	2022	2	42
Parameterized Complexity of Directed Spanner Problems	Fomin F.V., Department of Infor	Mathematical Sciences	Algorithmica	2022	0	78
The effect of external salts on the aggregation of the multihedded surfactants: All-atom molecular dynamics studies	Dash S., School of Chemical Scie	Chemical Sciences	Journal of Molecular Graphics and Modelling	2022	1	80
Multifunctional delafossite CuFeO2 as water splitting catalyst and rhodamine B sensor	Mao L., School of Materials and E	Chemical Sciences	Materials Chemistry and Physics	2022	4	170
Performance of a prototype bakelite RPC at GIF++ using self-triggered electronics for the CBM experiment at FAIR	Mondal M., Variable Energy Cycl	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A: A	2022	2	176
Study on formation of Pd nanocatalyst in self-reducing silica nanotube produced by using sacrificial Fe3O4 template and its efficacy in Cr(VI) reduction	Shrivastava K.C., Analytical Chem	Physical Sciences	Materials Chemistry and Physics	2022	1	170
Enhanced Electron Transfer Kinetics of Covalent Carbon Nanotube Junctions	Kumar S., Analytical Chemistry D	Chemical Sciences	Journal of Physical Chemistry C	2022	2	123
MnFe2O4 nano-flower: A prospective material for bimodal hyperthermia	Shaw S.K., Department of Metall	Chemical Sciences	Journal of Alloys and Compounds	2022	6	210

Exploring the reaction pathway involved in the dibenzo-18-crown-6 synthesis from catechol and bis(2-chloroethyl) ether in presence of base	Sisodia D.S., Department of Chemistry	Chemical Sciences	Journal of Physical Organic Chemistry	2022	1	70
Comparative inter diffusion study among Ag and AuAg thin film grown on reconstructed Si(5x5) substrate	Bhukta A., Institute of Physics, SOI	Physical Sciences	Applied Physics A: Materials Science and Processing	2022	1	159
Morphological, electronic, and magnetic properties of multicomponent cobalt oxide nanoparticles synthesized by high temperature arc plasma	Das A., Atmospheric Plasma Div.	Physical Sciences	Nanotechnology	2022	0	200
Discrimination of neutron and gamma ray induced nucleation events at high frequency in R134a superheated emulsion	Ali S., Astrophysical Physics & Cosmology	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Detectors and Experimental Apparatus	2022	2	176
Results of sequential swallowing assessments in patients undergoing upfront surgery for oral tongue squamous cell carcinoma	Sawhney S., Dept. of Head & Neck	Medical and Health Sciences	Oral Oncology	2022	1	128
Improved electronic structure prediction of chalcopyrite semiconductors from a semilocal density functional based on Pauli kinetic energy enhancement factor	Ghosh A., Department of Physics	Physical Sciences	Journal of Physics Condensed Matter	2022	2	244
Structure and stability of f-UZr2 phase in U-50 wt% Zr alloy	Basak C.B., Mechanical Metallurgy	Engineering Sciences	Philosophical Magazine	2022	0	100
Comprehensive study on radial coil influence in designing segmented remote field eddy current probe for defect detection in ferromagnetic tubes	Vilvachandrika T., Homi Bhabha National Institute	Engineering Sciences	Nondestructive Testing and Evaluation	2022	2	35
Expression analysis of hormonal pathways and defense associated genes in gamma-rays mutagenized wheat genotypes against combined stresses of spot blotch and terminal heat	Singh G.M., Department of Genetics	Life Sciences	Current Plant Biology	2022	3	25
2,3-Difunctionalized Benzofuran Scaffolds Possessing Potent Antiangiogenic Properties	Singh H., Pharmacology Division	Chemical Sciences	Journal of Medicinal Chemistry	2022	1	286
Structural investigation and specific heat measurements on borosilicate, uranium and rare earths loaded borosilicate glasses	Manivannan A., Homi Bhabha National Institute	Chemical Sciences	Journal of Nuclear Materials	2022	1	157
Wireless phone use in childhood and adolescence and neuroepithelial brain tumours: Results from the international MOBI-Kids study	Gastaño-Vinyals G., Barcelona Institute of Science and Technology	Medical and Health Sciences	Environment International	2022	16	227
Novel combination of bioactive agents in bilayered dermal patches provides superior wound healing	Pillai M.M., Department of Biosciences	Life Sciences	Nanomedicine: Nanotechnology, Biology, and Medicine	2022	10	148
New insights of falcipain 2 structure from Plasmodium falciparum 3D7 strain	Chakraborty S., Crystallography Division	Life Sciences	Biochemical and Biophysical Research Communications	2022	1	282
Precipitation behaviour of 20MnMoNi55 RPV steel in the temperature range of 630–670 °C	Gupta L., Mechanical Metallurgy	Engineering Sciences	Materials Today Communications	2022	2	42
Gastrointestinal stromal tumours: ESMO–EURACAN–GENTURIS Clinical Practice Guidelines for diagnosis, treatment and follow-up	Casali P.G., Department of Cancer	Medical and Health Sciences	Annals of Oncology	2022	117	277
Sequestration of Am3+ and Eu3+ into ionic liquid containing Aza-macrocyclic based multiple-diglycolamide ligands: Extraction, complexation, luminescence and DFT studies	Verma P.K., Radiochemistry Division	Chemical Sciences	Journal of Molecular Liquids	2022	1	150
Aspirin inhibition of group vi phospholipase a2 induces synthetic lethality in aam pathway down-regulated gingivobuccal squamous carcinoma	Pansare N., ICGC Lab, Advanced Research	Medical and Health Sciences	Cells	2022	0	100
FDG PETCT for assessing marrow involvement at staging pediatric nonhematological round cell malignancies	Shah S., Department of Nuclear Medicine	Medical and Health Sciences	Nuclear Medicine Communications	2022	1	78
Experimental investigation on sodium leak behaviour through a pinhole	Avinash C.S.S.S., Indira Gandhi Centre for Atomic Research	Chemical Sciences	Annals of Nuclear Energy	2022	2	77
Prognostic value of lung shunt fraction in hepatocellular carcinoma and unresectable liver dominant metastatic colorectal cancer undergoing transarterial radioembolisation	Gosavi A., Department of Nuclear Medicine	Medical and Health Sciences	Nuclear Medicine Communications	2022	1	78
Studies of optical, dielectric, ferroelectric, and structural phase transitions in 0.9(knbo3)-0.1(lbani/2nbi)2zo3-6	Rosas B.Y., Department of Physics	Chemical Sciences	Crystals	2022	3	63
Tailoring magnetic and dielectric properties of SrFe12O19/NiFe2O4 ferrite nanocomposites synthesized in presence of Calotropis gigantea (crown) flower extract	Chauhan C.C., Electronics and Communication	Physical Sciences	Journal of Alloys and Compounds	2022	9	200
A comparative study of AJCC and the modified staging system in pT2/pT3 penile squamous cell carcinoma – a validation on an external data set	Sail A.P., Department of Pathology	Medical and Health Sciences	Histopathology	2022	6	136
Perceiving university students' opinions from Google app reviews	Ranjan S., Department of Computer Science	Mathematical Sciences	Concurrency and Computation: Practice and Experience	2022	1	75
Electromagnetic interference shielding effectiveness of polypyrrole-silver nanocomposite films on silane-modified flexible sheet	Benzaoui K., Laboratoire CEM, Ecole Nationale Supérieure de Technologie	Physical Sciences	High Performance Polymers	2022	4	45
Self-Operating Flyback Converter for Boosting Ultra-Low Voltage of Thermoelectric Power Generator for IoT Applications	Patra S., Homi Bhabha National Institute	Engineering Sciences	IEEE Transactions on Industrial Electronics	2022	3	323
Free volume structure at interphase region of poly (ethylene oxide)-Al2O3 nanorods composites based solid polymer electrolyte and its direct correlation with Li ion conductivity	Utpalla P., Radiochemistry Division	Chemical Sciences	Solid State Ionics	2022	11	208
Out-of-pile experiments for design validation of material irradiation test loop	Avinash C.S.S.S., Safety Quality Assurance	Chemical Sciences	Annals of Nuclear Energy	2022	0	77
A BiCMOS frontend electronics chipset for the readout of the INO-ICAL RPC detector	Sukhwani M., Bhabha Atomic Research Centre	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Detectors and Experimental Apparatus	2022	0	176
The effect of rare earth on the radiation shielding properties of transparent lead-free Aluminoborophosphate glass system	Suresh A.A., Department of Physics	Chemical Sciences	Radiation Physics and Chemistry	2022	5	93
Extragenital endometrial stromal sarcoma of transverse mesocolon: A diagnostic conundrum	Sharma A., Tata Memorial Hospital	Medical and Health Sciences	International Journal of Surgical Pathology	2022	1	53
Phenomenal Effect of Stable (Ti, Mo)C Nano-Sized Precipitates in Retarding the Recrystallization and Grain Growth in High-Strength Ferritic Steel	Modak P., Indian Institute of Technology	Engineering Sciences	Metallurgical and Materials Transactions A: Physical Metallurgy and Applied Materials	2022	3	105
Utility of Stewart's Approach to Diagnose Missed Complex Acid-base Disorders as Compared to Bicarbonate-anion Gap Based Methodology in Critically Ill Patients: An Observational Study	Paliwal R., Department of Intensive Care	Medical and Health Sciences	Indian Journal of Critical Care Medicine	2022	1	37
Non-invasive transferrin targeted nanovesicles sensitize resistant glioblastoma multiforme tumors and improve survival in orthotopic mouse models	Sandbhor P., Department of Biosciences	Life Sciences	Nanoscale	2022	7	268
Analysis of structural transformation in nanocrystalline Y2O3 during high energy ball milling	B.R. V.K., Physical Metallurgy Division	Physical Sciences	Journal of Alloys and Compounds	2022	4	200
Effect of external stimulus on polymer conformation in CdS-PVP nanocomposites: Raman, PL, and AFM mapping study	Rani E., Laser Physics Application	Physical Sciences	Journal of Materials Science	2022	0	154
X-ray photoelectron spectroscopy and spectroscopic ellipsometry analysis of the p-NiO/n-Si heterostructure system grown by pulsed laser deposition	Chaudhary S., Department of Physics	Physical Sciences	Thin Solid Films	2022	5	206

Synthesis, structural characterization and selective anticancer activity of [Ag(L)(Ph ₃) ₂ (NO ₃) ₂ (L = N(4)-substituted 2-acetylpyridine-N(4)-methyl-3-thiosemicarbazone]	Blwas C., Department of Chemi	Chemical Sciences	Inorganic Chemistry Communications	2022	1	78
Na-montmorillonite to Fe(II)-Mt using ferrous citrate/ascorbate obtained by dissolving iron powder	Chikkamath S., Dept. of Chemist	Chemical Sciences	Applied Clay Science	2022	0	152
Assessing the Rates and Reasons of Elective Surgical Cancellations on the Day of Surgery: A Multicentre Study from Urban Indian Hospitals	Sarang B., WHO Collaborating Ce	Medical and Health Sciences	World Journal of Surgery	2022	4	168
Morphology induced large magnetic anisotropy in obliquely grown nanostructured thin film on nanopatterned substrate	Bera A.K., UGC-DAE Consortium	Physical Sciences	Applied Surface Science	2022	5	219
Outdoor and indoor natural background gamma radiation across Kerala, India	Thomas J.R., School of Environm	Physical Sciences	Environmental Science: Atmospheres	2022	3	7
Contiguous hetero-structures and co-existing morphological derivatives of preferentially grown carbo-nitrides in long-term aged SS 316LN with varying nitrogen concentration	Alphy George, Metallurgy and M	Engineering Sciences	Journal of Materials Science	2022	2	154
Engineered perovskite LaCoO ₃ /rGO nanocomposites for asymmetrical electrochemical supercapacitor application	Vats A.K., School of Material Scie	Physical Sciences	Journal of Materials Science: Materials in Electronics	2022	9	88
Experimental investigation of dryout phenomena under oscillatory flow conditions	Kumar R., Homi Bhabha National	Engineering Sciences	Heat Transfer	2022	1	39
Growth of large size Triphenylphosphine Oxide 4-Nitrophenol (TP4N) single crystal by Sankaranarayanan-Ramasamy (SR) method for third order nonlinear optical applications	Kamalesh T., Research Centre, S	Physical Sciences	Chinese Journal of Physics	2022	3	54
First-principles investigations of the half-metallic ferromagnetic LaCoTiIn equiatomic quaternary Heusler alloy for spintronics	Aravindan V., Smart Materials La	Physical Sciences	Functional Materials Letters	2022	5	32
Microvascular Flap Reconstruction for Head and Neck Cancers in Previously Operated and/or Irradiated Neck Is it Safe?	Shankhdhar V.K., Department of	Medical and Health Sciences	Annals of Plastic Surgery	2022	1	101
Outcomes of rectal cancer patients with a positive pathological circumferential resection margin	Patel S., Colorectal Division, Dep	Medical and Health Sciences	Langenbeck's Archives of Surgery	2022	0	80
Development and testing of prototype interdigital TWA for fast wave current drive in SST-1 tokamak	Ganji J., Birla Institute of Techno	Physical Sciences	Fusion Engineering and Design	2022	1	87
Shielding performance of Mn _x Ni _{0.8-x} Zn _{0.2} Fe ₂ O ₄ (0.1 ≤ x ≤ 0.7) for electromagnetic interference (EMI) in X-band frequency	Srinivas C., Nanomaterials and N	Physical Sciences	Ceramics International	2022	4	140
Acute Sensitivity of V. cholerae to Phosphate Starvation: A Possible Case of Futile Metabolism	Paranjape S., Life Sciences, Hom	Life Sciences	Current Microbiology	2022	0	103
Impact of the COVID pandemic on survivors of childhood cancer and survivorship care: lessons for the future	Prasad M., Division of Paediatric	Medical and Health Sciences	Supportive Care in Cancer	2022	3	128
Antioxidant enzymes and transporter genes mediate arsenic stress reduction in rice (Oryza sativa L.) upon thiourea supplementation	Upadhyay M.K., Plant Stress Bio	Life Sciences	Chemosphere	2022	13	288
Redshift space three-point correlation function of IGM at z < 0.48	Maitra S., Iucaa, Postbag 4, Gan	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	2	357
Effect of Thermal Cycling on Tensile Properties and Impact Toughness of Hydrided Zr-2.5Nb PT Material	Murty T.N., Mechanical Metallur	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39
Displacive Phase Transformations in Nanometric Dimension	Neogy S., Materials Science Divis	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39
Prospective study to assess the role of FDG PET/CT in detecting systemic metastatic spread in rectal cancers with lateral pelvic lymph nodes	Agrawal A., Department of Nucle	Medical and Health Sciences	European Journal of Surgical Oncology	2022	1	110
Evidence for the general dominance of proton shells in low-energy fission	Mahata K., Nuclear Physics Divis	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	13	375
Development of a novel spiral antenna system for low loop voltage current start-up at the Steady State Superconducting Tokamak (SST-1)	Basu D., Institute for Plasma Res	Physical Sciences	Plasma Physics and Controlled Fusion	2022	0	116
Theoretical prediction of FNgM3-khk (Ng = Ar, Kr, Xe, and Rn; M = Cu, Ag and Au; k = 0-2) molecules	Kuntar S.P., Homi Bhabha Natio	Chemical Sciences	Molecular Physics	2022	4	114
Isotopic signatures to address the groundwater recharge in coastal aquifers	Chidambaram S., Water Researc	Chemical Sciences	Marine Pollution Bulletin	2022	5	210
Aggregation behaviour of star block copolymers T1304 and T1307 in the presence of toluene, phenol and methyl phenols: A DLS and SANS study	Chakrabarti C., School of Science	Physical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	5	187
Efficient separation of hard actinides from rare earths using the functionalised silica gels	Das A., Materials Processing and	Engineering Sciences	Chemical Engineering Journal	2022	4	280
The science case for LIGO-India	Saleem M., Chennai Mathematic	Physical Sciences	Classical and Quantum Gravity	2022	27	179
Mapping the magnetic state as a function of antistite disorder in 5m ₂ NiMnO ₆ double perovskite thin films	Majumder S., UGC DAE Consorti	Physical Sciences	Physical Review B	2022	3	481
A new ternary composite steel rebar coating for enhanced corrosion resistance in chloride environment	Harilal M., Corrosion Science and	Physical Sciences	Construction and Building Materials	2022	13	230
A deep hybrid learning pipeline for accurate diagnosis of ovarian cancer based on nuclear morphology	Sengupta D., Biophysics and Stru	Life Sciences	PLoS ONE	2022	9	404
Artificial intelligence-based correlation: Process side heat transfer coefficient for helical coils in stirred tank reactors	Moholkar C.D., Department of C	Engineering Sciences	Heat Transfer	2022	2	39
Proximal-type epithelioid sarcoma of vulva – Case series of a rare tumor	Dash B., Department of Surgical	Medical and Health Sciences	Gynecologic Oncology Reports	2022	3	22
ESIPT-active hydroxybenzothiazole-picolinium@CB[7]-HAp NPs based supramolecular sensing assembly for spermine, spermidine and cadaverine: Application in monitoring cancer biomarkers and food spoilage	Bhosle A.A., Department of Chem	Chemical Sciences	Journal of Photochemistry and Photobiology A: Chemistry	2022	5	171
Valorisation of End-of-Life tyres for generating valuable resources under circular economy	Sharma A., Technical & Applied	Engineering Sciences	Fuel	2022	7	243
Radiation-Induced Meningioma in a Case of Medulloblastoma Treated 11 Years Ago-Detected on 68Ga-DOTANOC PET/CT	Dev I.D., From the Departments	Medical and Health Sciences	Clinical nuclear medicine	2022	0	64
Defect-Interceded Cascading Energy Transfer and Underlying Charge Transfer in Europium-Doped CrPbCl ₃ Nanocrystals	Shukla A., Institute of Nano Scie	Chemical Sciences	Journal of Physical Chemistry Letters	2022	6	235
Layered SnS ₂ /porous nickel foil based Schottky junction: An excellent ammonia sensor at room temperature	Das B., Materials Processing & M	Physical Sciences	Journal of Hazardous Materials	2022	8	329

Three-dimensional fluid-driven stable frictional ruptures	Sáez A., Geo-Energy Laboratory	Physical Sciences	Journal of the Mechanics and Physics of Solids	2022	17	190
Studies on the role of ion mass and energy in the defect production in irradiation experiments in tungsten	Maya P.N., Institute for Plasma	Physical Sciences	Nuclear Fusion	2022	0	132
Serial monitoring of ionised calcium levels in plateletpheresis donors: A study from tertiary care oncology centre in India	Navkudkar A., Department of Tr	Medical and Health Sciences	Transfusion and Apheresis Science	2022	0	62
Measurement of cold nuclear matter effects for inclusive J/ψ in $p+Au$ collisions at $\sqrt{s_{NN}}=200$ GeV	Abdallah M.S., American Univers	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	3	275
Long-Term Clinical Outcomes and Sequelae of Therapy in Early-Stage Orbital Mucosa-Associated Lymphoid Tissue Lymphoma	Panda G., Adult Haematolympho	Medical and Health Sciences	Clinical Lymphoma, Myeloma and Leukemia	2022	0	60
Suicidal behaviour: What's the brain up to?	Parkar S., Department of Psychi	Medical and Health Sciences	Journal of Psychiatric Research	2022	1	155
Effect of focusing plane on laser blow-off shock waves from confined aluminum and copper foils	Guthikonda N., Advanced Cent	Physical Sciences	Journal of Physics D: Applied Physics	2022	2	238
Lithium wall conditioning techniques in ADITYA-U tokamak for impurity and fuel control	Jadeja K.A., Institute for Plasma	Engineering Sciences	Nuclear Fusion	2022	3	132
Pulsed laser deposited Cu ₂ O/CuO films as efficient photocatalyst	Panda R., Institute For Plasma R	Physical Sciences	Thin Solid Films	2022	7	206
Spectrophotometric analysis of uranium concentration at trace level in PuO ₂ product	Mukhopadhyay C., Reprocessing	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	0	73
Ab Initio Modeling of the ZnO-Cu(111) Interface	Mondal K., Department of Physic	Physical Sciences	Journal of Physical Chemistry C	2022	5	333
Magnetic rotational band in 1165b	Dar S., Variable Energy Cyclotro	Engineering Sciences	Nuclear Physics A	2022	0	170
Pressure induced Lifshitz transition and anomalous crystal field splitting in AFeAs (A = Li/Na) Fe-based superconducting compounds: A first principles study	Ghosh S., Human Resources Dev	Physical Sciences	Computational Materials Science	2022	5	135
Evaluation of multiple myeloma measurable residual disease by high sensitivity flow cytometry: An international harmonized approach for data analysis	Soh K.T., Roswell Park Comprehe	Medical and Health Sciences	Cytometry Part B - Clinical Cytometry	2022	7	130
Evidence for competing bi-faceted compound nucleus fission modes in ²³² Th(α, f) reaction	Dey A., Nuclear Physics Division,	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	1	275
Evaluation of Separation Efficiency in a Tubular Bowl Centrifuge	Patan S., Andhra University, Dep	Chemical Sciences	Chemical Engineering and Technology	2022	2	90
On the Parameterized Complexity of Maximum Degree Contraction Problem	Saurabh S., The Institute of Math	Mathematical Sciences	Algorithmica	2022	1	78
Epitaxial Growth of GaAs Nanowires on Synthetic Mica by Metal-Organic Chemical Vapor Deposition	Saraswathy Vilasam A.G., Depart	Physical Sciences	ACS Applied Materials and Interfaces	2022	3	284
An Insightful Picture of Multi-Particle Recombination in Few-Layer MoS ₂ Nanosheets	Taank P., Department of Physics	Physical Sciences	Journal of Physical Chemistry C	2022	7	323
Microstructure and Mechanical and Oxidation Properties of Multilayer Aluminide Coatings Formed Over P91 Steel	Kumar S., Materials Processing a	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39
Bright and Efficient Red Light-Emitting Electrochemical Cells with Nondoped Organic Small Molecules: A New Approach	John J.C., School of Chemical and	Chemical Sciences	ACS Photonics	2022	8	117
Anomalous Lattice Thermal Conductivity in Rocksalt IIA-VIA Compounds	Rakesh Roshan S.C., Rajiv Gandh	Physical Sciences	ACS Applied Energy Materials	2022	3	71
Gamma-ray astronomy with the imaging atmospheric Cherenkov telescopes in India	Singh K.K., Astrophysical Science	Physical Sciences	Journal of Astrophysics and Astronomy	2022	2	34
Probing Photoexcited Charge Carrier Trapping and Defect Formation in Synergistic Doping of SrTiO ₃	Koshi N.A., Indo-Korea Science a	Physical Sciences	ACS Applied Energy Materials	2022	5	71
QUADRATIC RESIDUE PATTERN AND THE GALOIS GROUP OF $Q(\sqrt{a_1}, \sqrt{a_2}, \dots, \sqrt{a_n})$	Babu C.G.K., Institute of Mathem	Mathematical Sciences	Proceedings of the American Mathematical Society	2022	2	86
Lelomyosarcoma of inferior vena cava (IVC): do we really need to reconstruct IVC post resection? Single institution experience	Goel M., GI & HPB Service, Depa	Medical and Health Sciences	Langenbeck's Archives of Surgery	2022	1	80
Theoretical simulation on evolution of suspended sodium combustion aerosols characteristics in a closed chamber	Narayanam S.P., Environmental	Physical Sciences	Nuclear Engineering and Technology	2022	3	51
Superconducting niobium coating deposited using cold spray	Kumar S., International Advance	Physical Sciences	Materials Letters	2022	0	164
Metal-free ring opening of 5-amino-1,4-dialkyl-1H-pyrazoles: A facile access to 2-aryl-3-aryloxaacrylonitriles	Chatterjee A., School of Chemica	Chemical Sciences	Journal of Heterocyclic Chemistry	2022	0	63
Genome-wide lone strand adenine methylation in Deinococcus radiodurans R1: Regulation of gene expression through DR0643-dependent adenine methylation	Joshi S., Molecular Biology Resea	Life Sciences	Microbiological Research	2022	1	105
Highly efficient Plutonium(V) uptake from acidic feeds using four extraction chromatography resins containing diglycolamides and ionic liquid	Yadav A.G., Advanced Fuel Fabri	Chemical Sciences	Journal of Chromatography A	2022	0	244
Childhood cancer survivorship care during the COVID-19 pandemic: an international report of practice implications and provider concerns	van den Oever S.R., Princess Ma	Medical and Health Sciences	Journal of Cancer Survivorship	2022	4	74
Current-driven magnetization reversal dynamics and breather-like EM soliton propagation in biaxial anisotropic weak ferromagnetic nanowire	Kavitha L., Department of Physic	Physical Sciences	Nonlinear Dynamics	2022	0	115
Impact of Zn-doping on the composition, stability, luminescence properties of silica coated all-inorganic cesium lead bromide nanocrystals and their biocompatibility	Kar M.R., Department of Engines	Life Sciences	Materials Today Chemistry	2022	14	48
Sputtering yield and nanopattern formation study of BNSiO ₂ (Borosil) at elevated temperature relevance to Hall Effect Thruster	Parida B.K., Institute for Plasma	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section B: E	2022	1	127
A novel composite of monosodium titanate-amidoximated polyacrylonitrile for the sequestration of uranium from contaminated water: An experimental and simulation study	Kamble P., Homi Bhabha Nationa	Engineering Sciences	Separation and Purification Technology	2022	3	191
Fabrication of CeO ₂ microspheres by internal gelation process using T junction droplet generator	Yadav S., Department of Chemic	Chemical Sciences	Brazilian Journal of Chemical Engineering	2022	2	59
Raman and Photoluminescence Spectroscopic Studies on Structural Disorder in Oxygen Deficient Gd ₂ Ti ₂ O _{7-δ} Single Crystals	Suganya M., School of Science an	Physical Sciences	Crystal Research and Technology	2022	0	69

Isotope hydrogeochemical models for assessing the hydrological processes in a part of the largest continental flood basalt province of India	Ansari M.A., Isotope and Radiat	Engineering Sciences	Geoscience Frontiers	2022	2	77
Surface morphology and dispersion interaction induced anomalous dynamics of solvation water of a hydrophobic fullerene molecule	Pai M., Theoretical Chemistry Se	Chemical Sciences	Journal of Molecular Liquids	2022	0	150
Excitonic Effects in Fe/As K-Edge Absorption for Iron Based Superconductors: A Combined DFT and BSE Analysis	Ghosh S., Human Resources Dev	Physical Sciences	Advanced Theory and Simulations	2022	0	32
IQ Motif-Containing GTPase-Activating Protein 2 Inhibits Breast Cancer Angiogenesis by Suppressing VEGFR2- AKT Signaling	Kumar D., School of Biological Sc	Life Sciences	Molecular Cancer Research	2022	7	148
Classical soft graviton theorem rewritten	Sahoo B., Fields and Strings Labo	Physical Sciences	Journal of High Energy Physics	2022	6	247
Tuning of silica nanoparticle-lysozyme protein complexes in the presence of the SDS surfactant	Saha D., Solid State Physics Divis	Physical Sciences	Soft Matter	2022	4	190
Impact of treatment refusal and abandonment on survival outcomes in pediatric osteosarcoma in Southeast Asia: A multicenter study	Monsereenusorn C., Division of	Medical and Health Sciences	Pediatric Blood and Cancer	2022	0	138
Cyclic peptides nanospheres: A '2-in-1' self-assembled delivery system for targeting nucleus and cytoplasm	Panigrahi B., School of Biotechnol	Life Sciences	European Journal of Pharmaceutical Sciences	2022	7	152
Improvement in metal vapor laser performance with reduction in localized electric field at electrodes	Singh D.K., Homi Bhabha Nationa	Physical Sciences	Review of Scientific Instruments	2022	4	174
Effect of Ba ²⁺ doping on the properties of CeB ₃ single crystal	Sisodiya D.S., Homi Bhabha Natio	Physical Sciences	Journal of Crystal Growth	2022	1	159
Probing defect-originated properties, actinide-lanthanide doping, and gamma irradiation effect in Lu ₂ Zr ₂ O ₇ pyrochlore nanocrystals for phosphor and nuclear applications	Gupta S.K., Radiochemistry Divis	Chemical Sciences	Materials Today Chemistry	2022	0	48
Design and development of water-immersible two-channel high-voltage spike pulser for under-water inspection and gauging of pipes	Kumar N.P., Homi Bhabha Natio	Engineering Sciences	Review of Scientific Instruments	2022	3	174
Novel compositions of mesoporous spinel-type ternary metal oxides microspheres: Structural and electrical properties functionality	Nagpal D., Department of Physic	Chemical Sciences	Physica B: Condensed Matter	2022	7	134
Investigation of phase equilibria in SrO-La ₂ O ₃ -P ₂ O ₅ system and thermo physical properties of established compounds	Keskar M., Fuel Chemistry Divisi	Chemical Sciences	Journal of Solid State Chemistry	2022	2	154
A chemically functionalized hydroxyacetamide anchored polymeric adsorbent for the selective separation of zirconium from acidic aqueous solutions	Suneesh A.S., Materials Chemist	Chemical Sciences	Reactive and Functional Polymers	2022	1	108
Creation of quantum coherence with general measurement processes	Mohanty S.D., International Insti	Physical Sciences	Quantum Information Processing	2022	0	68
Assessment of natural radioactivity levels in the Lesser Himalayas of the Jammu and Kashmir, India	Kumar A., Department of Physic	Physical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	1	73
Importance of Intraoperative Neuromonitoring Parameters in Predicting Temporary Recurrent Laryngeal Nerve Palsy Following Thyroid Surgery for Malignancy	Velayutham P., Department of N	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	0	21
Study of sodium diuranate concentrate refining using H ₂ O ₂	Amalraj V.S., Chemical Technolo	Engineering Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	1	73
Effect of Environment on Fatigue Crack Growth Behavior of Type 316 LN Stainless Steel and Its Weldments	Poonguzhali A., Corrosion Scienc	Chemical Sciences	Journal of Materials Engineering and Performance	2022	1	78
A Review on Pool and Flow Boiling Enhancement Using Nanofluids: Nuclear Reactor Application	Mukherjee S., Thermal Research	Engineering Sciences	Processes	2022	15	14
Fuchs Endothelial Corneal Dystrophy associated risk variant, rs3768617 in LAMC1 shows allele-specific binding of GF118	Chakraborty M., School of Biolog	Life Sciences	Gene	2022	2	188
Spectral and temporal performance enhancement in a symmetric co-planar Au-Ge/AlGaAs/Au-Ge natural superlattice-based MSM photodetector	Maltra T., Department of Physic	Physical Sciences	Journal of Materials Science: Materials in Electronics	2022	0	88
Revisiting Factors Predisposing to Lateral Neck Node Metastasis in Differentiated Thyroid Cancer—a Clinical Audit	Nayyar S., Department of ENT, H	Medical and Health Sciences	Indian Journal of Surgery	2022	0	26
Telmisartan Restricts Chikungunya Virus Infection In Vitro and In Vivo through the AT1/PPAR-γ/MAPKs Pathways	De S., Institute of Life Sciences, I	Life Sciences	Antimicrobial Agents and Chemotherapy	2022	10	289
Identification of Retained Austenite in 9Cr-1.4W-0.06Ta-0.12C Reduced Activation Ferritic Martensitic Steel	Mythili R., Metallurgy & Material	Engineering Sciences	Symmetry	2022	6	76
Impact of land surface processes on the simulation of sea breeze circulation and tritium dispersion over the Kags complex terrain region near west coast of India using the Weather Research and Forecasting (WRF) model	Aravind A., Homi Bhabha Nationa	Physical Sciences	Atmospheric Environment: X	2022	2	19
Do authorship disputes deter Indian medical students from pursuing research?	Dutta R., Medical Student, Christ	Medical and Health Sciences	Indian Journal of medical ethics	2022	2	18
Adamantinoma-Like Ewing Sarcoma of the Head and Neck: A Case-Series of a Rare and Challenging Diagnosis	Bai M., Department of Pathology	Medical and Health Sciences	Head and Neck Pathology	2022	5	62
Temozolomide-induced myelotoxicity and single nucleotide polymorphisms in the MGMT gene in patients with adult diffuse glioma: a single-institutional pharmacogenetic study	Moltra P., Departments of Radiat	Medical and Health Sciences	Journal of Neuro-Oncology	2022	2	129
Role of conserved regulatory loop residues in allosteric propagation of serine protease HtrA2	Parul A.L., Integrated Biophysics	Life Sciences	Biochemical and Biophysical Research Communications	2022	0	282
Regulatory role of LoxA in modulating photosynthetic redox poise and cadmium stress tolerance in the cyanobacterium, Anabaena sp. PCC7120	Srivastava A., Department of Bot	Life Sciences	Environmental and Experimental Botany	2022	5	154
Type-III see-saw: Search for triplet fermions in final states with multiple leptons and fat-jets at 13 TeV LHC	Ashanujjaman S., Institute of Ph	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	10	275
Degradation of Incoloy-800HT in molten FLiNaK salt at high temperatures	Harinath Y.V., Water and Steam	Chemical Sciences	Materials and Corrosion	2022	0	61
Prognostic impact of semantic MRI features on survival outcomes in molecularly subtyped medulloblastoma	Dasgupta A., Department of Rad	Medical and Health Sciences	Strahlentherapie und Onkologie	2022	1	74
Magnetic and magnetocaloric properties of nanocrystalline sample of a glassy ferromagnetic compound: Modification of short range ordering	Chatterjee S., CMP Division, Sah	Physical Sciences	Materials Research Bulletin	2022	1	124
Hematite decorated functional porous graphitic carbon nitride binary nanohybrid: Mechanistic insight into the formation and arsenic adsorption study	Tripathy M., Department of Che	Chemical Sciences	Applied Surface Science	2022	5	219
Nano-scale physicochemical attributes and their impact on pore heterogeneity in shale	Chandra D., Computational and	Physical Sciences	Fuel	2022	15	249

Non-inferiority trials	Ranganathan P., Department of	Medical and Health Sciences	Perspectives in Clinical Research	2022	0	16
A role for the last C-terminal helix of the F plasmid segregating protein SopA in nucleoid binding and plasmid maintenance	Mishra D., School of Biological Sc	Life Sciences	Plasmid	2022	0	64
Origin of solvent and excitation dependent emission in newly synthesized amphiphilic carbon dots	Singhal P., Environmental Monit	Chemical Sciences	Journal of Luminescence	2022	4	126
Study of the Microstructure, Mechanical Properties, Residual Stresses, and Distortion in Type 316LN Stainless Steel Medium Thickness Plate Weld Joints	Ragavendran M., Homi Bhabha N	Engineering Sciences	Journal of Materials Engineering and Performance	2022	4	78
A state bit recovery algorithm with TMDTO attack on Lizard and Grain-128a	Dalal D.K., School of Mathematic	Mathematical Sciences	Designs, Codes, and Cryptography	2022	2	65
Genetic mapping and validation of SSR markers linked to leaflet shape in soybean using a recombinant inbred line population	Gupta S.K., Nuclear Agriculture a	Life Sciences	Electronic Journal of Plant Breeding	2022	1	13
Complex impedance spectroscopy and dielectric relaxation studies of lead-free layered perovskite Bi4-xLaxTi3O12 ceramics: a ferroelectric to relaxor crossover	Selvamani R., Ceramic & Compos	Physical Sciences	Journal of Materials Science: Materials in Electronics	2022	3	88
Occupation probabilities of valence orbitals relevant to neutrinoless double	Shrivastava A., Nuclear Physics D	Physical Sciences	Physical Review C	2022	0	229
IrO2-Modified RuO2 Nanowires/Nitrogen-Doped Carbon Composite for Effective Overall Water Splitting in All pH	Samanta R., School of Chemical S	Chemical Sciences	Energy and Fuels	2022	20	209
High-capacity reversible hydrogen storage in scandium decorated holey graphene: Theoretical perspectives	Mahamiya V., Indian Institute of	Physical Sciences	International Journal of Hydrogen Energy	2022	36	248
Interfacing g-C3N4 Nanosheets with CdS Nanorods for Enhanced Photocatalytic Hydrogen Evolution: An Ultrafast Investigation	Goswami T., Institute of Nano Sc	Chemical Sciences	Journal of Physical Chemistry B	2022	12	411
Solitary Bone Plasmacytoma of Humerus Presenting as a Nonhealing Fracture in a Child: A Rare Entity	Tandon S., Division of Paediatric	Medical and Health Sciences	Journal of Pediatric Hematology/Oncology	2022	1	63
Active Brownian motion with speed fluctuations in arbitrary dimensions: Exact calculation of moments and dynamical crossovers	Shee A., Institute of Physics, Sac	Physical Sciences	Journal of Statistical Mechanics: Theory and Experiment	2022	3	86
Topological phonons and electronic structure of UZBaSi class of semimetals	Sharma V.K., Department of Phy	Physical Sciences	Journal of Physics Condensed Matter	2022	2	244
Covellite (CuS) as a novel adsorbent for the direct removal of As(III) and As(V) simultaneously from groundwater	Shanmugam T., National Centre	Chemical Sciences	Separation Science and Technology (Philadelphia)	2022	2	87
AzuR From the SmtB/ArxR Family of Transcriptional Repressors Regulates Metallothionein in Anabaena sp. Strain PCC 7120	Divya T.V., Molecular Biology Div	Life Sciences	Frontiers in Microbiology	2022	2	201
Self-Powered Monitoring of Ammonia Using an MXene/TiO2/Cellulose Nanofiber Heterojunction-Based Sensor Driven by an Electrospun Triboelectric Nanogenerator	Sardana S., Department of Phys	Physical Sciences	ACS Sensors	2022	41	90
Design of a helical resonator with improved figure of merit	Nandi J., Variable Energy Cyclotr	Physical Sciences	Review of Scientific Instruments	2022	2	174
Structural insights on the effects of mutation of a charged binding pocket residue on phosphopeptide binding to 14-3-3 κ protein	Sreevidya T.S., The Institute of M	Life Sciences	Proteins: Structure, Function and Bioinformatics	2022	0	178
Design and development of heater control circuit without temperature sensor for monitoring hydrogen in argon	Premalatha S., Materials Chemis	Chemical Sciences	Review of Scientific Instruments	2022	0	174
An efficient strategy to enhance the photocatalytic activity of Ir-doped SrTiO3: A hybrid DFT approach	Modak B., Theoretical Chemist	Chemical Sciences	New Journal of Chemistry	2022	4	131
Measurements of optical properties of black and brown carbon using multi-wavelength absorption technique at Mumbai, India	Rathod T.D., Environmental Mor	Physical Sciences	Journal of Earth System Science	2022	4	63
Development of a Robust Receding-Horizon Nonlinear Kalman Filter Using M-Estimators	Rangegowda P.H., Bhabha Atom	Engineering Sciences	Industrial and Engineering Chemistry Research	2022	1	246
Dark Matter Effects on the Compact Star Properties	Das H.C., Institute of Physics, Sac	Physical Sciences	Galaxies	2022	8	27
Nuclear level densities away from line of β -stability	Sangeeta, Department of Applie	Physical Sciences	Journal of Physics G: Nuclear and Particle Physics	2022	0	112
Measurement of (n,α) and $(n,2n)$ reaction cross sections at a neutron energy of 14.92 ± 0.02 MeV for potassium and copper with uncertainty propagation	Gandhi A., Department of Physic	Physical Sciences	Chinese Physics C	2022	11	46
Magnetism of two-dimensional honeycomb layered Na2Ni2Te O6 driven by intermediate Na-layer crystal structure	Bera A.K., Solid State Physics Div	Physical Sciences	Physical Review B	2022	9	481
Airborne virus transmission under different weather conditions	Das S.K., School of Physical Scien	Physical Sciences	AIP Advances	2022	2	73
Defect dipole induced improved electrochromic effect in modified NBT-6BT lead-free ceramics	Samantary K.S., Department of	Physical Sciences	Journal of Alloys and Compounds	2022	4	206
Isolation of single crystals of a homoleptic UO22+-diglycolamide complex from a room temperature ionic liquid: X-ray crystallography and complexation studies	Ansari S.A., Radiochemistry Divis	Chemical Sciences	New Journal of Chemistry	2022	4	131
Laser microwelding of stainless steel and pure aluminum foil	Kumar A., Fuel Fabrication, Integ	Engineering Sciences	Journal of Laser Applications	2022	1	61
Experimental validation of universal plasma blob formation mechanism	Bisal N., Institute for Plasma Res	Physical Sciences	Nuclear Fusion	2022	6	112
Correlation between the relative blob fraction and plasma parameters in NSTX	Zweben S.J., Princeton Plasma P	Physical Sciences	Physics of Plasmas	2022	6	109
The role of hydrogen bonding in tuning CEST contrast efficiency: a comparative study of intra- and inter-molecular hydrogen bonding	Pandey S., School of Chemical Sc	Chemical Sciences	New Journal of Chemistry	2022	2	131
Time-resolved SAXS investigation on structural evolution of plant fibrillar-network during dehydration	Sen D., Solid State Physics Divisi	Physical Sciences	Surfaces and Interfaces	2022	1	49
CO2 laser assisted deactivation of bacteria and bacteriophage samples	Dwivedi T., Laser and Plasma Tec	Life Sciences	Journal of Laser Applications	2022	0	61
Constructive feedback of non-Markovianity on resources in random quantum states	Gupta R., Harish-Chandra Resear	Physical Sciences	Physical Review A	2022	3	281
Multifocal Pseudomyogenic Hemangioiderthelioma Involving the Scalp and Nose, Misdiagnosed as A Sarcoma: A Rare Case Report	Mittal N., Department of Surgica	Medical and Health Sciences	Turk Patoloji Dergisi	2022	0	17

MITOL-mediated DRP1 ubiquitylation and degradation promotes mitochondrial hyperfusion in CMT2A-linked MFN2 mutant	Das R., Biophysics & Structural G	Life Sciences	Journal of Cell Science	2022	3	278
Tissue-equivalent dosimeters based on copper doped lithium tetraborate single crystals for radiotherapy	Tiwari B., Technical Physics Divn	Physical Sciences	Radiation Measurements	2022	1	105
Influence of polymorphic magnetic phases on exchange bias effect in bulk and nanocrystalline La _{0.375} Ca _{0.625} MnO ₃ compound	Chatterjee S., CMP Division, Saha	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	0	187
Interesting magnetic response of the nuclear fuel material UO ₂	Pal S., UGC DAE Consortium for	Physical Sciences	Phase Transitions	2022	0	48
Optical time-of-flight and spectroscopic investigation of laser produced barium plasma in presence of magnetic field and ambient gas	Kumar M., Institute for Plasma R	Physical Sciences	Physics Letters, Section A: General, Atomic and Solid State Physics	2022	1	182
Autoproteolysis of Procerain and Procerain B mediated by structural changes	Srivastava G., Food Technology C	Life Sciences	Phytochemistry	2022	2	197
Probing concentration and time dependent conformational changes in poly acrylic acid stabilized magnetic nanoemulsion using magnetic chaining-based inter-droplet force measurement	Nandy M., Smart Materials Secti	Physical Sciences	Colloids and Interface Science Communications	2022	1	83
Probing ultrafast hot charge carrier migration in MoS ₂ embedded CdS nanorods	Goswami T., Institute of Nano Sc	Chemical Sciences	Journal of Chemical Physics	2022	3	379
Field excitation in fuzzy dark matter near a strong gravitational wave source	Dave S.S., The Institute of Mathe	Physical Sciences	Physical Review D	2022	2	378
Electrochemical recovery of plutonium from aqueous carbonate waste solutions	Agarwal R., Homi Bhabha Natio	Chemical Sciences	Chemical Communications	2022	0	363
Runge-Kutta type-2 method for solving reactor point kinetics equations and its validation by analysing thermal and fast reactor benchmarks	Ravindra Babu P., ALWR, BARCIV	Engineering Sciences	Annals of Nuclear Energy	2022	0	77
Production of light (anti)neutrie in pp collisions at $\sqrt{s} = 13$ TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Journal of High Energy Physics	2022	5	247
An FPGA based 33-channel, 72 ps LSB time-to-digital converter	Hari Prasad K., Bhabha Atomic R	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A	2022	4	176
Estimation of stored energy for TWIN source HVDC transmission line	N.V.M., ITER-India, Institute for	Physical Sciences	Fusion Engineering and Design	2022	0	87
Charm-quark fragmentation fractions and production cross section at midrapidity in pp collisions at the LHC	Acharya S., Variable Energy Cycl	Physical Sciences	Physical Review D	2022	22	378
Measurements and estimation of cross sections of neutron and bremsstrahlung induced nuclear reactions for neodymium isotopes with covariance analysis	Bholane G.T., Department of Ph	Physical Sciences	Nuclear Physics A	2022	4	170
Microstructure and defects of 0.1P2O ₅ -0.65ZnO-0.25(xTeO ₂ -[1-x]MoO ₃) quaternary glass nanocomposites using positron annihilation and correlated experimental methods	Biswas D., Department of Electro	Physical Sciences	Journal of Physics and Chemistry of Solids	2022	2	117
Application of superomiphobic electrospun membrane for treatment of real produced water through membrane distillation	Chiao Y.-H., Department of Chem	Chemical Sciences	Desalination	2022	15	219
Probe anchored porous organic polymer monolithic architectures as optical sensor for ultra-trace analysis of Hg ²⁺ in water samples	Madhesan T., Department of Ch	Chemical Sciences	Microporous and Mesoporous Materials	2022	5	179
Orbital- and atom-dependent linear dispersion across the Fermi level induces charge density wave instability in EuTe ₄	Pathak A., Department of Mechs	Physical Sciences	Physical Review B	2022	3	481
Subpicosecond Hot Hole Transfer in a Graphene Quantum Dot Composite with High Efficiency	Mishra K., School of Chemical Sc	Chemical Sciences	Journal of Physical Chemistry Letters	2022	7	235
Quaternary ammonium substituted pullulan accelerates wound healing and disinfects: Staphylococcus aureus infected wounds in mouse through an atypical 'non-pore forming' pathway of bacterial membrane disruption	Roy S., School of Basic Sciences,	Life Sciences	Biomaterials Science	2022	10	87
Pressure driven structural phase transition in EuTeO ₄ : Experimental and first principles investigations	Banerjee S., High Pressure and S	Physical Sciences	Journal of Physics Condensed Matter	2022	4	244
The Impact of Human Papilloma Virus status on the prediction of head and neck cancer chemoradiotherapy outcomes using the pre-treatment apparent diffusion coefficient	Connor S., School of Biomedical	Medical and Health Sciences	British Journal of Radiology	2022	2	116
Hepatic epithelioid hemangioendothelioma: A clinicopathological correlation	Mundada A.D., Department of P	Medical and Health Sciences	Indian Journal of Pathology and Microbiology	2022	0	33
Correlation between Carotid and Brachial Artery Velocity Time Integral and Their Comparison to Pulse Pressure Variation and Stroke Volume Variation for Assessing Fluid Responsiveness	Joshi M., Department of Anaesth	Medical and Health Sciences	Indian Journal of Critical Care Medicine	2022	1	37
An oxygen-bridged bimetallic [Cu-O-Se] catalyst for Sonogashira cross-coupling	Sahu S.K., Department of Chemi	Chemical Sciences	New Journal of Chemistry	2022	3	121
Emergence of directed motion in a 2D system of Yukawa particles on 1D Ratchet	Chugh A., Institute for Plasma R	Physical Sciences	Physica A: Statistical Mechanics and its Applications	2022	2	178
Overcoming the Challenges toward Selective C(6)-H Functionalization of 2-Pyridone with Maleimide through Mn(I)-Catalyst: Easy Access to All-Carbon Quaternary Center	Mohanty S.R., School of Chemis	Chemical Sciences	Organic Letters	2022	7	252
Effect of grain size on the thermal stability of electrodeposited nanocrystalline nickel: X-ray diffraction studies	Julie S., Materials Science Group	Physical Sciences	Thin Solid Films	2022	3	206
Loco-regional radiosensitizing nanoparticles-in-gel augments head and neck cancer chemoradiotherapy	Bhardwaj P., Department of Bios	Life Sciences	Journal of Controlled Release	2022	7	298
Effects of a Multicomponent Perfume Accord and Dilution on the Formation of ST25/CAPB Mixed-Surfactant Microemulsions	Mirzamani M., James L. Winkle C	Physical Sciences	Langmuir	2022	2	319
Miniature impact test technique to evaluate the orientation dependence of impact toughness of hydrided Zr-2.5%Nb alloy	Chatterjee A., Mechanical Metal	Engineering Sciences	International Journal of Fracture	2022	1	106
Mechanism unravelling for highly efficient and selective 99TcO ₄ -sequestration utilising crown ether based solvent system from nuclear liquid waste: Experimental and computational investigations	Patra K., Nuclear Recycle Board,	Chemical Sciences	RSC Advances	2022	3	189
A Study on the Scan Plans for Rapid Flaw Detection by Eddy Current Non-Destructive Evaluation	Soni A.K., ECE Department, Scho	Engineering Sciences	IETE Journal of Research	2022	0	30
Electrochemical behaviour of LiCl-KCl eutectic melts containing moisture as impurity. Part II: Uranium electrode	Swain L., Homi Bhabha National	Chemical Sciences	Journal of Electroanalytical Chemistry	2022	5	167
Testing quantum speedups in exciton transport through a photosynthetic complex using quantum stochastic walks	Dudhe N., School of Physical Sci	Physical Sciences	Physical Chemistry Chemical Physics	2022	2	272
A study on the evolution of ω -phase in Zr-20Nb alloy under the influence of electron irradiation	Goel L., Homi Bhabha National I	Engineering Sciences	Journal of Alloys and Compounds	2022	1	208

PEGylated silicon oxide nanocomposites with blue photoluminescence prepared by a rapid electron-beam irradiation approach: Applications in iFE-based Cr (VI) sensing and cell-imaging	Guleria A., Radiation & Photochem	Chemical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	4	187
Assessment of alkylimidazolium chloride ionic liquid formulations for cleaning and disinfection of environmental surfaces	Rajitha K., Biofouling and Biofilm	Life Sciences	American Journal of Infection Control	2022	0	126
Incidence and Treatment Outcomes of Rectovaginal Fistula After Rectal Cancer Resection	Kazi M.K., The Department of Co	Medical and Health Sciences	Female Pelvic Medicine and Reconstructive Surgery	2022	1	32
Spatially varying chemical phase formation on silicon nano ripple by low energy mixed ions bombardment	Mukherjee J., Ion Beam Develop	Physical Sciences	Journal of Physics Condensed Matter	2022	2	244
Detection of MDM2 gene amplification on tissue microarray-based Fluorescence In-Situ Hybridization (FISH) in well-differentiated and dedifferentiated liposarcomas, displaying a wide morphological spectrum: A validation study at a tertiary cancer referral centre	Rekhi B., Department of Surgical	Medical and Health Sciences	Indian Journal of Pathology and Microbiology	2022	5	33
Design, construction and operation of the ProtoDUNE-SP Liquid Argon TPC	Abud A.A., CERN, The European	Physical Sciences	Journal of Instrumentation	2022	18	85
Mesoporous Silica-Coated Upconversion Nanoparticles Assisted Photodynamic Therapy Using 5-Aminolevulinic Acid: Mechanistic and In Vivo Studies	Sharma K.S., Chemistry Division,	Chemical Sciences	ACS Applied Bio Materials	2022	1	43
Application of 3D magnetic nanocomposites: MXene-supported Fe3O4@CS nanospheres for highly efficient adsorption and separation of dyes	Xu J., State Key Laboratory of Oil	Chemical Sciences	Science of the Total Environment	2022	29	117
Self-Assembled TMD Nanoparticles on N-Doped Carbon Nanostructures for Oxygen Reduction Reaction and Electrochemical Oxygen Sensing Thereof	Bisen O.Y., Materials Research Ce	Physical Sciences	ACS Applied Materials and Interfaces	2022	8	284
Phase pure rhombohedral R3 ^m AgCoO2 delafossite: Rietveld, selected area electron diffraction, X-ray photoemission spectroscopy, and magnetic studies	Nancy Anna Anasthasiya A., Dive	Chemical Sciences	Journal of the American Ceramic Society	2022	0	212
Pressure-Induced Structural Behavior of Orthorhombic Mn3[VO4]2: Raman Spectroscopic and X-ray Diffraction Investigations	Kesari S., Solid State Physics Div	Physical Sciences	ACS Omega	2022	4	77
An Ab-initio Study of the C18 nanocluster for Hazardous Gas Sensor Application	Vadalkar S., Department of Phys	Physical Sciences	Chemistry Select	2022	28	51
Polyphosphate-Grafted Fe3O4 Nanomagnets for the Removal of Trivalent Radionuclides from Acidic Nuclear Waste Solution	Pahan S., Process Development	Chemical Sciences	Chemistry Select	2022	2	51
Some aspects of pitting corrosion susceptibility of As-welded and thermally aged nitrogen-alloyed 316SS weld metal	Mannepalil S., Corrosion Science	Chemical Sciences	Materials and Corrosion	2022	2	61
Evolution of the shape of fission fragment energy spectrum with absorber thickness in two different media and effective charge correction	Santra R., Tata Institute of Fund	Life Sciences	International Journal of Modern Physics E	2022	0	56
Deperturbation analysis of the interacting C2f1/2 (v=5), and D2x+ (v=1) levels of ScO	Mukund S., Infrared Laser Spectr	Physical Sciences	Journal of Quantitative Spectroscopy and Radiative Transfer	2022	1	116
Mixed Ionic-Electronic Conduction and Magnetoelectric Coupling in Li0.5Fe2.5-xCrxO4 (x = 1.0, 1.1, 1.3, 1.5, and 1.6) Involving Magnetization Compensation Phenomenon	Ghanathe M., Solid State Physics	Physical Sciences	ACS Applied Electronic Materials	2022	2	36
Solution of the random field XY magnet on a fully connected graph	Sumedha, School of Physical Sci	Physical Sciences	Journal of Physics A: Mathematical and Theoretical	2022	3	166
Highly dispersed palladium nanoparticles supported on graphitic carbon nitride for selective hydrogenation of nitro compounds and Ullmann coupling reaction	Bhowmik T., School of Chemical	Chemical Sciences	Applied Organometallic Chemistry	2022	3	82
Generating pure red and near white light in NaLaF4 microcrystal by controlling site-selective luminescence of Eu3+ and Tb3+ dopant ions	Pathak N., Radiochemistry Divisi	Engineering Sciences	Optical Materials	2022	1	113
Interpreting the field emission equation for large area field emitters	Biswas D., Bhabha Atomic Resea	Physical Sciences	Journal of Vacuum Science and Technology B	2022	2	122
Fabrication and analysis of enhanced thermal stability and high-sensitivity turnaround point long-period fiber grating	Mahakud R., Fiber Grating Lab, F	Physical Sciences	Applied Optics	2022	0	211
Nuclear modification factor of light neutral-meson spectra up to high transverse momentum in p-Pb collisions at sNN=8.16 TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	11	276
Two-loop amplitudes for di-Higgs and di-pseudo-Higgs productions through quark annihilation in QCD	Ahmed T., Dipartimento di Fisica	Physical Sciences	Journal of High Energy Physics	2022	1	247
Structural characterization, Gd3+ → Eu3+ energy transfer and radiative properties of Gd/Eu in codoped Li2O-ZnO-SrO-B2O3-P2O5 glass	Ramakrishna P., Indira Gandhi Co	Chemical Sciences	Optical Materials	2022	14	113
Light nuclei collectivity from sNN=3 GeV Au+Au collisions at RHIC	Abdallah M.S., American Univers	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	13	275
Protocol for iCICLE-ALL-14 (InPOG-ALL-15-01): a prospective, risk stratified, randomised, multicentre, open label, controlled therapeutic trial for newly diagnosed childhood acute lymphoblastic leukaemia in India	Das N., Clinical Research Unit, Ta	Medical and Health Sciences	Trials	2022	14	91
Studies on impurity seeding and transport in edge and SOL of tokamak plasma	Raj S., Institute for Plasma Resea	Physical Sciences	Nuclear Fusion	2022	2	112
Experimental study of charging of dust grains in the presence of energetic electrons	Paul R., Centre of Plasma Physic	Physical Sciences	Plasma Physics and Controlled Fusion	2022	2	116
Longitudinal asymmetry in heavy ion collisions at RHIC	Thakur S., Variable Energy Cyclot	Physical Sciences	European Physical Journal A	2022	0	106
Apparent Age Dependence of the Fault Weakening Distance in Rock Friction	Beeler N.M., Cascades Observat	Physical Sciences	Journal of Geophysical Research: Solid Earth	2022	4	219
Investigation of Ultra-High Vacuum Compatible Weld Joints of AA5083 and AA6061 Materials for Synchrotron Radiation Source	Sharma S.K., Raja Ramanna Cent	Engineering Sciences	Journal of Materials Engineering and Performance	2022	0	78
Theoretical description of fission yields: Toward a fast and efficient global model	Sadhukhan J., Physics Group, Va	Physical Sciences	Physical Review C	2022	5	229
Reversible optical control of Fano resonance and domain configuration at room temperature in BaTiO3	Dwij V., UGC-DAE-Consortium fo	Physical Sciences	Journal of Applied Physics	2022	2	341
Proton Ion Irradiation on As40Se50Sb10 Thin Films: Fluence-Dependent Tuning of Linear-Nonlinear Optical Properties for Photonic Applications	Sahoo D., Department of Engine	Physical Sciences	ACS Applied Electronic Materials	2022	19	36
Quasifission in Kr 84.86 -induced reactions populating superheavy elements	Sen A., Variable Energy Cyclotro	Physical Sciences	Physical Review C	2022	1	229
Bayesian reconstruction of nuclear matter parameters from the equation of state of neutron star matter BAYESIAN RECONSTRUCTION OF NUCLEAR MATTER ... IMAM, PATRA, MONDAL, MALIK, and AGRAWAL	Imam S.M.A., Saha Institute of N	Physical Sciences	Physical Review C	2022	12	229
Effect of MeV Ion induced heating on secondary electron emission from Si surface and estimation of local temperature	Ghosh S., Variable Energy Cyclot	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section B	2022	0	127

Generation of hyperentangled states and two-dimensional quantum walks using J or q plates and polarization beam splitters	Yasir P.A.A., Department of Instr	Physical Sciences	Physical Review A	2022	3	281
Reaction dynamics of the C 12 + Ta 181 system near the Coulomb barrier: Evidence of fusion-fission events	Kaur P., Department of Physics,	Chemical Sciences	Physical Review C	2022	6	229
A three-dimensional gadolinium organic framework based on a pyridinedicarboxylic acid organic linker with a paddle-wheel-type network structure	Tiwari R.K., Department of Chem	Chemical Sciences	Acta Crystallographica Section C: Structural Chemistry	2022	0	21
A novel pro-oxidant combination of resveratrol and copper reduces transplant related toxicities in patients receiving high dose melphalan for multiple myeloma (RESCU 001)	Agarwal A., Bone Marrow Trans	Life Sciences	PLOS ONE	2022	5	404
A wide swing charge sensitive amplifier for a prototype Si-W EM calorimeter	Mukhopadhyay S., Bhabha Atom	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A	2022	3	176
Optimal condition for fabricating mechanically durable superhydrophobic titanium surface by rapid breakdown anodization: Self cleaning and bouncing characteristics	T.P.R., Corrosion Science and Te	Physical Sciences	Applied Surface Science	2022	43	219
FTIR-based rapid microbial quality estimation of fresh-cut jackfruit (Artocarpus heterophyllus) bulbs	Adiani V., Food Technology Divis	Life Sciences	Journal of Food Measurement and Characterization	2022	1	37
Disequilibrium studies using 210Po/210Pb ratio in top soil in the mineralized region of East Singhbhum, Jharkhand, India	Sharma D.B., Health Physics Unit	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	0	73
Creep behaviour of alloy 690 in the temperature range 800–1000 °C	Sourabh K., Homi Bhabha Nat	Engineering Sciences	Journal of Materials Research and Technology	2022	3	77
Appearance of a peak in the symmetry energy at N=126 for the Pb isotopic chain within the relativistic energy density functional approach	Pattnaik J.A., Department of Phy	Physical Sciences	Physical Review C	2022	2	229
Initial-boundary value problem for 1D pressureless gas dynamics	Neumann L., Unit of Engineering	Mathematical Sciences	Journal of Differential Equations	2022	1	131
Assessing the feasibility study of highly efficient and selective co-sequestration process for cesium and strontium utilizing calix-crown and crown-ether based combined solvent systems	Patra K., Nuclear Recycle Board,	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	2	73
Studies on phase evolution, microstructure and crystallization kinetics in Nd2O3 doped Li2O-Al2O3-SiO2 glass system	Mishra R., Glass and Advanced M	Chemical Sciences	Journal of Non-Crystalline Solids	2022	1	158
Secretory phospholipase sPLA2-IIa loss impairs tumorigenic and metastatic potential in breast cancer cells	Mehta D., Stem Cell Biology Gro	Life Sciences	Biochemical and Biophysical Research Communications	2022	1	282
Formation of the Laves Phase in Nb-Ti-Cr-Si-X-Based Alloys	Tewari R., Materials Science Divi	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39
Clinical Spectrum of Adrenal Cushing's Syndrome and the Caution for Interpretation of Adrenocorticotrophic Hormone: A Single-Center Experience	Gosavi V., Department of Endoc	Medical and Health Sciences	Hormone and Metabolic Research	2022	0	98
Intrinsic Diffusion, Mobility and Correlation Effect in Cu(Al) Solid Solution	Laik A., Materials Science Divisi	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39
Zooming in on eV-MeV scale sterile neutrinos in light of neutrinoless double beta decay	Jha T., Institute of Physics, Sach	Physical Sciences	Physical Review D	2022	1	378
Thermal decomposition study for effective management of low level radioactive combustible solids	Pancholi K.C., Homi Bhabha Nat	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	1	73
Effect of fine-tuning of intermolecular interactions on crystallisation outcome: A case study of polymorphs of 4-hydroxybenzaldehyde	Choudhury R.R., Solid State Phys	Physical Sciences	Pramana - Journal of Physics	2022	0	58
Study of microstructure & mechanical properties of TiG welded aluminized 9Cr-1Mo steel	Zala A.B., Institute for Plasma Re	Engineering Sciences	Fusion Engineering and Design	2022	4	87
Catalytic Formal Conjugate Addition: Direct Synthesis of δ -Hydroxynitriles from Nitriles and Allylic Alcohols	Thiyagarajan S., School of Chemi	Chemical Sciences	ACS Catalysis	2022	8	263
Polyanionic Cyclodextrin-Induced Supramolecular Assembly of a Cationic Tetraphenylethylene Derivative with Aggregation-Induced Emission	Kaur J., Radiation & Photochemi	Chemical Sciences	Journal of Physical Chemistry B	2022	6	411
Transforming incipient to real ferroelectrics in SrTiO3 upon doping luminescent Eu3+ /Tb3+ ions and the generation of white light for piezo-phototronics application	Pathak N., Radiochemistry Divisi	Chemical Sciences	Journal of Alloys and Compounds	2022	2	200
Degradation of thermally sprayed Al2O3 coatings in reactor-grade liquid-sodium and its mitigation by laser treatment	Varghese P., Metallurgy & Mater	Chemical Sciences	Ceramics International	2022	2	140
Correlation of Magnetic and Superconducting Properties with the Strength of the Magnetic Proximity Effect in La 0.67 Sr 0.33 MnO 3 /SrTiO 3 /YBa 2 Cu 3 O 7- Heterostructures	Bhatt H., Solid State Physics Divi	Physical Sciences	ACS Applied Materials and Interfaces	2022	3	284
Prognostic and predictive roles of cancer stem cell markers in head and neck squamous cell carcinoma patients receiving chemoradiotherapy with or without nimotuzumab	Patel U., Mahimkar Lab, Cancer	Life Sciences	British Journal of Cancer	2022	1	259
Viscosity to entropy density ratio ($\zeta/\epsilon s$) in nanoliquid	Islam M.M., Department of Phys	Physical Sciences	Physics and Chemistry of Liquids	2022	0	40
On the existence of global solutions of the Hartree equation for initial data in the modulation space $M_{p,q}(R)$	Manna R., School of Mathematic	Mathematical Sciences	Journal of Differential Equations	2022	0	131
Practices in sedation, analgesia, mobilization, delirium, and sleep deprivation in adult intensive care units (SAMDS-ICU): an international survey before and during the COVID-19 pandemic	Luz M., Intensive Care Unit of th	Medical and Health Sciences	Annals of Intensive Care	2022	8	68
γ -Cyclodextrin capped silver and gold nanoparticles as colorimetric and Raman sensor for detecting traces of pesticide "Chlorpyrifos" in fruits and vegetables	Chadha R., Radiation & Photoch	Chemical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	8	187
A perspective on nonlinearities in coherent magnetization dynamics	Li J., Department of Materials, E	Physical Sciences	Applied Physics Letters	2022	10	466
Enhanced biological phosphorus removal in aerobic granular sludge reactors by granular activated carbon dosing	Sarvajith M., Biofouling and Bio	Life Sciences	Science of the Total Environment	2022	8	217
Global model study of plasma parameter variation in helicon plasma source in oxygen discharge	Sharma N., Centre of Plasma Phy	Physical Sciences	Physics of Plasmas	2022	1	169
Metastatic Extra-Adrenal Pheochromocytoma with Single Kidney and Renal Compromise: A Case Report of Excellent Response, Tolerability, and Outcome to a Modified Regimen of 131-mIBG, and Decision-Making between 131-mIBG Therapy and PRRT	Lotharkar S., Radiation Medicine	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Temperature-dependent excitonic emission characteristics of lead-free inorganic double perovskites and their third-order optical nonlinearities	Singh A., Plasmonics and Perovs	Physical Sciences	Physical Chemistry Chemical Physics	2022	2	272
Experimental and Theoretical Core Level and Valence Band Analysis of Clean Perovskite Single Crystal Surfaces	Garclá-Fernández A., Division of	Physical Sciences	Small	2022	3	276
NiSe2 Nanoparticles Encapsulated in N-Doped Carbon Matrix Derived from a One-Dimensional Ni-MOF: An Efficient and Sustained Electrocatalyst for Hydrogen Evolution Reaction	Sahu N., School of Chemical Scie	Chemical Sciences	Inorganic Chemistry	2022	11	240

Arsenic and cadmium induced macronutrient deficiencies trigger contrasting gene expression changes in rice	Raghuvanshi R., Department of	Chemical Sciences	Environmental Pollution	2022	6	275
Cross-section of (n,2n) reaction for niobium and strontium isotopes between 13.97 to 20.02 MeV neutron energies	Mehta M., Department of Physic	Physical Sciences	Applied Radiation and Isotopes	2022	1	85
Effect of substrate and Fe/Rh stoichiometry on first order antiferromagnetic-ferromagnetic transition in FeRh thin films	Saha P., UGC-DAE Consortium fo	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	3	187
Mpemba Effect in Anisotropically Driven Inelastic Maxwell Gases	Biswas A., The Institute of Math	Physical Sciences	Journal of Statistical Physics	2022	6	115
Organoaluminum Cation Catalyzed Selective Hydroxylation of Carbonyls, Alkenes, and Alkynes	Sarkar N., School of Chemical Sci	Chemical Sciences	European Journal of Inorganic Chemistry	2022	7	141
Influence of Hardening Models on the Estimation of Residual Stresses by Finite Element Modeling in Type 316LN Stainless Steel Weld Joints	Pavan A.R., Homi Bhabha Natio	Engineering Sciences	Journal of Materials Engineering and Performance	2022	3	78
Analysis of Clinical Outcomes of Patients with Soft Tissue Sarcoma	Garg L., Musculoskeletal Oncolo	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	0	21
Isolation and characterization of a recombinant class C acid phosphatase from <i>Sphingobium</i> sp. RSM5 strain	Raneu S.S., Applied Genomics Se	Life Sciences	Biotechnology Reports	2022	0	53
Validation of notch stress estimation schemes for low C-Mn steel	Jena S.K., Department of Engine	Engineering Sciences	Fatigue and Fracture of Engineering Materials and Structures	2022	2	94
Synchrotron based x-ray absorption spectroscopy Investigation and temperature dependent ferroelectric properties of Ni doped BaTiO ₃ nanostructures	Arshad M., Department of Physic	Physical Sciences	Ceramics International	2022	5	140
Glioblastoma recurrent cells switch between ATM and ATR pathway as an alternative strategy to survive radiation stress	Kaur E., Shilpee Dutt Laboratory,	Life Sciences	Medical Oncology	2022	2	87
Clinical Audit of Survival Outcomes and Prognostic Factors in Adolescents and Adults with Medulloblastoma	Patil R., Department of Radiator	Medical and Health Sciences	Journal of Adolescent and Young Adult Oncology	2022	1	27
Harvesting Light from BaHfO ₃ /Eu ³⁺ through Ultraviolet, X-ray, and Heat Stimulation: An Optically Multifunctional Perovskite	Gupta S.K., Radiochemistry Divis	Chemical Sciences	ACS Omega	2022	6	77
The impact of fluence dependent proton ion irradiation on the structural and optical properties of Bi ₂ Se ₃ thin films for nonlinear optical devices	Priyadarshini P., Department of	Physical Sciences	RSC Advances	2022	8	189
The standardization and application of an external (in air) particle induced gamma emission (PIGE) method for the rapid and non-destructive quantification of light elements at major to trace concentrations in coal, bottom ash and coke samples	Samanta S.K., Radiochemistry Di	Chemical Sciences	Journal of Analytical Atomic Spectrometry	2022	6	123
GENERALIZED DIOPHANTINE m-TUPLES	Dixit A.B., Institute of Mathemat	Mathematical Sciences	Proceedings of the American Mathematical Society	2022	1	86
Heme Protein Binding of Sulfonamide Compounds: A Correlation Study by Spectroscopic, Calorimetric, and Computational Methods	Ovung A., Department of Chemi	Physical Sciences	ACS Omega	2022	7	77
Phase transitions in XY models with randomly oriented crystal fields	Sumedha, School of Physical Sci	Physical Sciences	Physical Review E	2022	0	317
Utilization of Ionic Liquids for preferential separation of thorium during the determination of trace metallic constituents in thorium matrix using ICP-OES	Pathak S., Radiochemistry Divisi	Chemical Sciences	Journal of Analytical Atomic Spectrometry	2022	1	123
Electrochemically activated Co-Prussian blue analogue derived amorphous CoB nanostructures: an efficient electrocatalyst for the oxygen evolution reaction	Tripathy R.K., School of Chemica	Chemical Sciences	Dalton Transactions	2022	8	203
Structural Changes from Conventional SrSnO ₃ to Ruddlesden-Popper Sr ₂ SnO ₄ Perovskites and Its Implication on Photoluminescence and Optoelectronic Properties	Gupta S.K., Radiochemistry Divis	Chemical Sciences	ACS Applied Electronic Materials	2022	5	36
Postgraduate examination: How to match your presentation skills with examiner's expectations?	Singh B., Department of Anaesth	Medical and Health Sciences	Indian Journal of Anaesthesia	2022	1	39
Vibronic States and Edge-On Oriented n-Stacking in Poly(3-alkylthiophene) Thin Films	Saifuddin M., Saha Institute of N	Physical Sciences	ACS Applied Polymer Materials	2022	6	36
Importance of non-Technical skills in anaesthesia education	Radhakrishnan B., Department o	Medical and Health Sciences	Indian Journal of Anaesthesia	2022	7	39
Speciation and Mobility of Uranium in Waste Materials Generated by Mining and Hydrometallurgy in Jaduguda, India	Singh S., Dept. of Chemical Scien	Physical Sciences	Journal of Hazardous, Toxic, and Radioactive Waste	2022	1	36
Fermi arcs and pseudogap phase in a minimal microscopic model of d-wave superconductivity	Singh D.K., School of Physics and	Physical Sciences	Physical Review B	2022	6	481
Enhancement of functional properties of VO ₂ thin film superconductor by the addition of yttrium	Ramjan S.K., Free Electron Laser	Physical Sciences	Journal of Applied Physics	2022	1	341
Overview of diagnostics on a small-scale RF source for fusion (ROBIN) and the one planned for the diagnostic beam for ITER	Bandyopadhyay M., ITER India, I	Physical Sciences	Review of Scientific Instruments	2022	2	174
Growth of brownmillerite Ca ₂ Fe ₂ O ₅ single crystals under air, oxygen and argon atmospheres using optical floating zone technique: a comparative study	Dhankhar S., Crystal Growth Cen	Physical Sciences	Bulletin of Materials Science	2022	0	81
Photon energy dependent appearance and disappearance of magnetic dipole transition in Gd ₂ Hf ₂ O ₇ :Sm ³⁺ nanophosphors	Gupta S.K., Radiochemistry Divis	Chemical Sciences	Journal of Luminescence	2022	2	126
Influence of nozzle angle and classifier height on the performance of a spiral air jet mill	Dhakate M.M., Indian Institute o	Engineering Sciences	Advanced Powder Technology	2022	1	89
The Decisive Role of Spin States and Spin Coupling in Dictating Selective O ₂ Adsorption in Chromium(III) Metal-Organic Frameworks**	Jose R., Department of Chemistr	Chemical Sciences	Chemistry - A European Journal	2022	5	261
Effect of Microstructure on the Mechanical Properties of Be-Free Zr-Based Bulk Metallic Glasses (BMG) and Tungsten Fiber Reinforced Metallic Glass Matrix Composites	Vishwanadh B., Materials Scienc	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	1	39
Study of heavy-flavor decay muon production in proton-proton and heavy-ion collisions using the Angantyr model at LHC energies	Islam M.S., High Energy Nuclear	Physical Sciences	International Journal of Modern Physics E	2022	1	56
Fault Detection and Isolation of a Pressurized Water Reactor Based on Neural Network and K-Nearest Neighbor	Naimi A., School of Built Environ	Engineering Sciences	IEEE Access	2022	7	204
Effect of Retained δ-Ferrite Transforming to Sigma Phase on the Hardness and Corrosion Resistance of Stainless Steel 321	Chandra K., Materials Group, Bh	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	1	39
Nonlinear Model Predictive Control Using Feedback Linearization for a Pressurized Water Nuclear Power Plant	Naimi A., School of Built Environ	Engineering Sciences	IEEE Access	2022	9	204
Deuterium ion irradiation impact on the current-carrying capacity of DI-BSCCO superconducting tape	Rajput M., Institute for Plasma R	Engineering Sciences	Nuclear Engineering and Technology	2022	2	51

Primary radiation damages in Li2TiO3 and Li4SiO4: a comparison study using molecular dynamics simulation	Sahoo D.R., Computational Mate	Engineering Sciences	Radiation Effects and Defects in Solids	2022	1	33
Synthesis of Dihydrobenzofuro[3,2-b]chromenes as Potential 3CLpro inhibitors of SARS-CoV-2: A Molecular Docking and Molecular Dynamics Study	Goral S., Bio-Organic Division, Bh	Chemical Sciences	ChemMedChem	2022	11	114
Theoretical investigations on the evolution of ordering in Ni–Mo-based alloys	Banerjee R.H., Materials Science	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39
A Phagosome Expressed Gene, rv0428c, of Mycobacterium tuberculosis Demonstrates Acetyl Transferase Activity and Plays a Protective Role Under Stress Conditions	Sharma A., Department of Biote	Life Sciences	Protein Journal	2022	1	59
Failure Cases of Stainless Steel 316/316L Pipe Welds in Moist Hydrogen Sulfide Environment	Chandra K., Materials Processing	Engineering Sciences	Journal of Failure Analysis and Prevention	2022	3	31
Radiation Damage Behaviour of a Zirconium Alloy Used in Nuclear Industry	Sarkar A., Mechanical Metallurg	Physical Sciences	Transactions of the Indian Institute of Metals	2022	0	39
Evolution of Oxide Film Formed on Machined Type 304L SS in High Temperature High Pressure Demineralised Water	Das A., Homi Bhabha National In	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	1	39
Strain-mediated ferromagnetism and low-field magnetic reversal in Co doped monolayer WS2	Jena A.K., Laboratory for Low Dim	Physical Sciences	Scientific Reports	2022	4	282
Kinematic dependence of azimuthal anisotropies in p+Au, d+Au, and He 3 +Au at sNN =200 GeV	Acharya U.A., Georgia State Univ	Physical Sciences	Physical Review C	2022	7	229
Analytical and numerical study of leaky mode characteristics of DNG metamaterial-based coaxial waveguide from GHz to THz frequency range	Gaur A., Microwave & ECE Diagn	Engineering Sciences	Optical and Quantum Electronics	2022	0	68
Cobalt metal organic framework (Co-MOF) derived CoSe2/C hybrid nanostructures for the electrochemical hydrogen evolution reaction supported by DFT studies	Tripathy R.K., School of Chemica	Chemical Sciences	New Journal of Chemistry	2022	11	131
A comparative study of the magnetic and magnetocaloric effect of polycrystalline Gd0.9Y0.1MnO3 and Gd0.7Y0.3MnO3 compounds: Influence of Y-ions on the magnetic state of GdMnO3	Ahmed A., CMP Division, Saha In	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	6	187
Phase evolution in thermally annealed Ni/Bi multilayers studied by X-ray absorption spectroscopy	Das B., School of Physical Scienc	Physical Sciences	Physical Chemistry Chemical Physics	2022	3	272
Measurement of inclusive charged-particle b-jet production in pp and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Journal of High Energy Physics	2022	6	247
Structural Analysis of Gliding Motility of a Bacteroidetes Bacterium by Correlative Light and Scanning Electron Microscopy (CLEM)	Khare D., Molecular Biology Divis	Life Sciences	Microscopy and Microanalysis	2022	0	76
Design and Simulation of 3.7-GHz, 8-kW CW, and 16-kW CW Magnetrons for LHCD System of Tokamaks	Jadhav A.R., Department of Elect	Physical Sciences	IEEE Transactions on Electron Devices	2022	0	198
Ultrafast carrier dynamics in a monolayer MoS2 at carrier densities well above Mott density	Khatau D.P., Nano Science Labor	Physical Sciences	Journal of Physics Condensed Matter	2022	5	244
Recycling of Electrode Materials from Spent Lithium-Ion Batteries to Develop Graphene Nanosheets and Graphene-Molybdenum Disulfide Nanohybrid: Environmental Benefits, Analysis of Supercapacitor Performance, and Influence of Density Functional Theory Calculations	Jena K.K., Department of Indust	Physical Sciences	Energy and Fuels	2022	9	209
Direct single-step synthesis of phase pure zeolite Na-P1, hydroxy sodalite and analcime from coal fly ash and assessment of their Cs+ and Sr2+ removal efficiencies	Kumar M.M., Homi Bhabha Nat	Chemical Sciences	Microporous and Mesoporous Materials	2022	19	179
Dynamic Recrystallization in Zircaloy-2	Kapoor R., Materials Group, Bhal	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	3	39
Molecular dynamics investigation of non-ionic deep eutectic solvents	Panda D.K., School of Chemical S	Chemical Sciences	Journal of Molecular Graphics and Modelling	2022	8	80
Unveiling the two-proton halo character of 17Ne: Exclusive measurement of quasi-free proton-knockout reactions	Lehr C., Technische Universität C	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	5	275
Developing Clinically Relevant Acquired Chemoresistance Models in Epithelial Ovarian Cancer Cell Lines	Shenoy P.S., Imaging Cell Signall	Life Sciences	Bio-protocol	2022	0	9
Development and optimization of a simple internal beam current monitoring approach using 29Si(p, γ)29Si reaction in particle induced gamma-ray emission for compositional characterization of glass samples and application to automobile windshield glasses	Sharma V., Radiochemistry Divisi	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	2	73
Kineto-Mechanistic Investigation of Effect of Macromolecular Crowding on the Breathing of DNA Bubble	Basu M., Single Molecule Biophy	Chemical Sciences	Journal of Physical Chemistry B	2022	0	411
Long-term multi-wavelength study of temporal and spectral properties of 3C 279	Tolamatti A., Astrophysical Scien	Physical Sciences	Astroparticle Physics	2022	3	120
Improved osteoblast function on titanium implant surfaces coated with nanocomposite Apatite–Wollastonite–Chitosan—an experimental in-vitro study	Mukherjee S., Kode Lab, Tumor	Life Sciences	Journal of Materials Science: Materials in Medicine	2022	4	129
Investigations on superconductivity in an equi-atomic disordered Hf-Nb-Ta-Ti-V high entropy alloy	Sarkar N.K., Materials Science Di	Engineering Sciences	Intermetallics	2022	4	127
La(III)-curcumin-functionalized gold nanocomposite as a red light-activatable mitochondria-targeting PDT agent	Musib D., Department of Chemis	Chemical Sciences	Inorganic Chemistry Frontiers	2022	2	79
A study on the effect of test temperatures on tensile and fracture behavior of SS 316LN	Bhrawajoshulu S.D., Materials D	Engineering Sciences	Materials Performance and Characterization	2022	0	18
How We Use Immunohistochemistry to Arrive at a Diagnosis in Breast Lesions	Sahay A., Department of Patholo	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Can the jigsaw puzzle model of protein folding re-assemble a hydrophobic core?	Biswas G., Saha Institute of Nucl	Physical Sciences	Proteins: Structure, Function and Bioinformatics	2022	5	178
Numerical Simulation of Departure from Nucleate Boiling in Rod Bundles under High-Pressure Conditions	Vadlamudi S.R.G., Homi Bhabha	Engineering Sciences	Fluids	2022	0	23
Stability-Order Reversal in FSIY and FYSI (Y = N and P) Molecules after the Insertion of a Noble Gas Atom	Ghosh A., Laser and Plasma Tech	Chemical Sciences	Journal of Physical Chemistry A	2022	4	256
Detection of nitrobenzene in pristine and metal decorated 2D dichalcogenide VSe2: Perspectives from density functional theory	Sanyal G., Mechanical Metallurg	Physical Sciences	Surfaces and Interfaces	2022	13	49
Ultrahigh reversible hydrogen storage in K and Ca decorated 4-6-8 biphenylene sheet	Mahamiya V., Indian Institute of	Physical Sciences	International Journal of Hydrogen Energy	2022	31	248
Tailoring surface properties with O/N doping in CNT aerogel film to obtain sensitive and selective sensor for volatile organic compounds detection	Prakash J., Materials Group, Bhal	Physical Sciences	Sensors and Actuators B: Chemical	2022	7	223
Brine residues and organics in the Urvara basin on Ceres	Nathues A., Max Planck Institute	Physical Sciences	Nature Communications	2022	0	466

Hugoniot elastic limit of single-crystal tantalum at normal and elevated temperatures subjected to extreme strain rates	Singla A., Theoretical Physics Sec	Physical Sciences	Physical Review B	2022	3	481
Detecting hypodiploidy with endoreduplication and masked hypodiploidy in B-cell acute lymphoblastic leukemia using multicolor flow cytometry	Chaturvedi A., Hematopathology	Medical and Health Sciences	Cytometry Part B - Clinical Cytometry	2022	2	130
N, H Dual-Doped Black Anatase TiO2 Thin Films toward Significant Self-Activation in Electrocatalytic Hydrogen Evolution Reaction in Alkaline Media	Parmar S., Department of Physic	Physical Sciences	Advanced Energy and Sustainability Research	2022	7	330
Breast Imaging: Past and Present	Haria P., Department of Radio-D	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	1	26
High temperature thermophysical properties of spark plasma sintered tungsten carbide	Tripathy H., Physical Metallurgy I	Engineering Sciences	International Journal of Refractory Metals and Hard Materials	2022	5	95
Low molecular weight sulfated chitosan isolation, characterization and anti-tuberculosis activity derived from Sepioteuthis lessoniana	Ramachandran S., Native Medic	Chemical Sciences	International Journal of Biological Macromolecules	2022	5	166
Discriminatory Impact of the COVID-19 Pandemic on Women Physicians	Jiwani S., Division of Thoracic S	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	1	26
Unilateral Interstitial Lung Disease with Contralateral Effusion: Unusual Case Report of Dasatimb Toxicity	Bhaskar M., Department of Pulm	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Study of photonic band gap robustness in disordered polymer photonic crystals under hydrostatic pressure	Rout S., Department of Electron	Physical Sciences	Optical Materials	2022	0	133
Diurnal variations in the stratosphere of the ultrahot giant exoplanet WASP-121b	Mikal-Evans T., Max Planck Insti	Physical Sciences	Nature Astronomy	2022	16	71
Neutrinos and the Proposed India-based Neutrino Observatory	Indumathi D., The Institute of M	Physical Sciences	Resonance	2022	0	20
Performance evaluation of AHWR flux mapping system during normal operational scenarios	Anupreethi B., Homi Bhabha Nat	Engineering Sciences	Nuclear Engineering and Design	2022	1	115
Sensitivity analysis of AHWR flux mapping system for unavailability of SPNDs	Anupreethi B., Homi Bhabha Nat	Engineering Sciences	Nuclear Engineering and Design	2022	0	115
Spatially selective nanoplasmonic response in Ag embedded GLAD TiO2 nanocomposite thin films	De R., Photonics and Nanotechn	Physical Sciences	Optical Materials	2022	1	133
Gain in performance of teleportation with uniformity-breaking distributions	Roy S., Harish-Chandra Research	Physical Sciences	Physical Review A	2022	2	281
A unique supramolecular assembly between sulfated cyclodextrin, silver and melamine: Towards a fluorescence based dual wavelength detection approach for melamine	Singh V.R., Radiation & Photoch	Chemical Sciences	Journal of Photochemistry and Photobiology A: Chemistry	2022	2	171
Mechanochemical Aliphatic Iodination (and Bromination) by Cascaded Cyclization	Bai A., School of Chemical Scienc	Chemical Sciences	Asian Journal of Organic Chemistry	2022	2	51
Electronic bandstructure modulation of MoX2/ZnO(X,S,Se) heterostructure by applying external electric field	Sharma N.K., Laboratory for Low	Physical Sciences	Surfaces and Interfaces	2022	5	49
A Poset-Based Approach to Curvature of Hypergraphs	Yadav Y., The Institute of Mathe	Life Sciences	Symmetry	2022	1	76
Multilevel resistive switching in graphene oxide-multiferroic thin-film-based bilayer RRAM device by interfacial oxygen vacancy engineering	Jena A.K., Laboratory for Low Dir	Physical Sciences	Applied Physics A: Materials Science and Processing	2022	4	158
Au-Implanted TiSe2 Nanocrystals with Defect-Controlled Ferromagnetic Ordering: Implications for Spintronic Devices	Sahoo U.P., School of Physical Sc	Physical Sciences	ACS Applied Nano Materials	2022	3	64
Clinical outcomes and prognostic factors in children with B-cell lymphoblastic lymphoma (LBL) treated according to an modified BFM-90 protocol: Experience from a Tertiary cancer care center in India	Vijayasekharan K., Department c	Medical and Health Sciences	Pediatric Hematology and Oncology	2022	0	45
Site-directed fluorescence approaches to monitor the structural dynamics of proteins using intrinsic Trp and labeled with extrinsic fluorophores	Brahma R., Crystallography and M	Life Sciences	STAR Protocols	2022	4	12
Investigation of Mode Transition and Negative Ion Production in Helicon Plasma Source in Hydrogen Discharge	Sharma N., Centre of Plasma Phy	Physical Sciences	Plasma Physics Reports	2022	0	53
Cross-Sectional Study of HPV Self-Sampling among Indian Women-A Way Forward	Anand K.V., Department of Prev	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Transverse single spin asymmetries of forward neutrons in p+p, p+Al and p+Au collisions at sNN =200 GeV as a function of transverse and longitudinal momenta	Acharya U.A., Georgia State Univ	Physical Sciences	Physical Review D	2022	2	378
DFT, MD simulations and experimental analysis of adsorptive complexation and isotope separation of gadolinium ion with macrocyclic crown ether embedded polymeric resin	Boda A., Chemical Engineering D	Chemical Sciences	Separation and Purification Technology	2022	4	101
Characterization and thermal expansion of Th-10Zr alloy	Kumar U., Post Irradiation Exami	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	2	73
Combined searches for dark matter in dwarf spheroidal galaxies observed with the MAGIC telescopes, including new data from Coma Berenices and Draco	Acciari V.A., Instituto de Astrofis	Physical Sciences	Physics of the Dark Universe	2022	18	46
Morphology-oxygen evolution activity relationship of iridium(IV) oxide nanomaterials	Mohan S., Department of Chemi	Chemical Sciences	New Journal of Chemistry	2022	1	131
Laparoscopic ovarian transposition in teenage and young women with locally advanced rectal cancer: Respite amidst cancer chaos	Shylasree T.S., Department of G	Medical and Health Sciences	Colorectal Disease	2022	1	101
Synthesis of photo-responsive indium selenides (InSe and In2Se3) from tris(4,6-dimethyl-2-pyrimidylselenolato)indium(III) as a molecular precursor	Karmakar G., Chemistry Division	Chemical Sciences	New Journal of Chemistry	2022	6	151
Rabi-like splitting and refractive index sensing with hybrid Tamm plasmon-cavity modes	Jena S., Atomic and Molecular Ph	Physical Sciences	Journal of Physics D: Applied Physics	2022	9	230
Electronic structure modification in Fe-substituted β -Ga2O3 from resonant photoemission and soft x-ray absorption spectroscopies	Ghosh S., Synchrotrons Utilizati	Physical Sciences	Journal of Physics D: Applied Physics	2022	1	230
Study of dielectric and magnetic properties of CaCu3Ti4-XMnXO12 (X = 0 and 0.1) ceramic synthesized through semi-wet route	Kumar V., Department of Chemi	Physical Sciences	Journal of the Australian Ceramic Society	2022	0	25
Role of Intra-Band Relaxation of Holes and Tunneling of Electrons in Carrier Relaxation in AlGaAs/GaAs Quantum Well	Khan S., Materials Science Secti	Physical Sciences	Physica Status Solidi (B) Basic Research	2022	0	116
A highly efficient and selective optical detection method for Heparin that works in 100% human serum	Pandey S.P., Amity Institute of B	Chemical Sciences	Sensors and Actuators B: Chemical	2022	7	223
Sulphuric acid decomposition using Cr-Fe2O3 catalyst in a tubular Packed Bed Reactor (PBR): Modeling and experimental studies	Sujeesh S., Chemical Technology	Engineering Sciences	International Journal of Hydrogen Energy	2022	3	248

Innovative strategy for rice straw valorization into nanocellulose and nanohemicellulose and its application	Louis A.C.F., Food Process Engin	Life Sciences	Industrial Crops and Products	2022	12	158
Effects of the moonlight on the operating parameters of the MACE γ -ray telescope: a feasibility study	Khurana M., Astrophysical Sci	Physical Sciences	Journal of Astrophysics and Astronomy	2022	0	34
The dark matter haloes of HI selected galaxies	Dutta S., School of Physical Scier	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	3	357
Investigation of a derived adverse outcome pathway (AOP) network for endocrine-mediated perturbations	Ravichandran J., The Institute of	Life Sciences	Science of the Total Environment	2022	7	317
Electrochemical characteristics of prednisone and its interaction with dsDNA over functionalized CNSs modified electrode	Sahoo S., Bhabha Atomic Resear	Chemical Sciences	Biosensors and Bioelectronics: X	2022	2	11
Timing of Ga68-PSMA PETCT and patterns of recurrence after prostate radiotherapy: Implications for potential salvage	Maitre P., Department of Radiat	Medical and Health Sciences	Radiotherapy and Oncology	2022	3	174
Combination treatment including irradiation improved the keeping quality of bitter melon (Momordica charantia L) with retention of functional bioactives while fulfilling phytosanitary requirement for export	More V., Food Technology Divisi	Life Sciences	Radiation Physics and Chemistry	2022	1	83
Quest for two-proton radioactivity	Pathak D., Department of Physic	Physical Sciences	European Physical Journal Plus	2022	3	76
Structures of Iron-Lithium-Calcium-Silicate Glass and its Devitrified State	Nayak M.T., Department of Phys	Physical Sciences	Silicon	2022	0	41
Intensified ceria recovery from graphite substrate and cleanup of leachant using sonication	Lahiri S., Laser & Plasma Technol	Engineering Sciences	Chemical Engineering and Processing - Process Intensification	2022	2	119
A WRF-FLEXPART simulation study of oil-fire plume dispersion- sensitivity to turbulent diffusion schemes	Karmakar S., Radiological Safety	Physical Sciences	Meteorology and Atmospheric Physics	2022	2	69
A Study on the Precipitation of Carbides in Ti-Modified Ni-Mo-Cr-based Alloy During Thermal Ageing at Elevated Temperature	Donthula H., Material Science Di	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	2	39
CD26 expression on donor harvest as a risk predictive biomarker for developing graft-versus-host disease post-allogeneic hematopoietic stem cell transplantation: A ten-year follow-up study	Punatar S., Stem Cell Transplant	Medical and Health Sciences	Cancer Biomarkers	2022	0	58
Predictors and Treatment Outcomes of Pediatric Osteosarcoma in Diverse Socioeconomic Backgrounds in Southeast Asia: A Retrospective Multicenter Study	Monsereenusorn C., Division of I	Medical and Health Sciences	Asian Pacific Journal of Cancer Prevention	2022	0	87
Highly efficient functionalized MOF-LIC-1 for extraction of U(vi) and Th(iv) from aqueous solution: Experimental and theoretical studies	Venkata Sravani V., Homi Bhabh	Chemical Sciences	Dalton Transactions	2022	7	203
Monoclinic-triclinic phase transition induced by pressure in fergusonite-type YbNbO4	Garg A.B., High Pressure and Syn	Physical Sciences	Journal of Physics Condensed Matter	2022	5	244
Morphology of ZnO nanorods and Au-ZnO heterostructures on different seed layers and their influence on the optical behavior	Mishra S.M., Saha Institute of Nu	Physical Sciences	Journal of Luminescence	2022	10	116
Measurements of gamma ray, cosmic muon and residual neutron background fluxes for rare event search experiments at an underground laboratory	Ghosh S., Saha Institute of Nucle	Physical Sciences	Astroparticle Physics	2022	0	116
Sodium diffusion and dynamics in Na2Ti3O7: Neutron scattering and ab initio simulations	Mittal R., Solid State Physics Divi	Chemical Sciences	Materials Advances	2022	1	28
Radiomic Analysis of Tumour Heterogeneity Using MRI in Head and Neck Cancer Following Chemoradiotherapy: A Feasibility Study	Guha A., Department of Radio-D	Medical and Health Sciences	Frontiers in Oncology	2022	1	121
Atypical posterior reversible encephalopathy syndrome associated with lenvatinib therapy in a patient with metastatic thyroid cancer—A case report	Abhishek M., Department of Rad	Medical and Health Sciences	Cancer Reports	2022	4	14
Electron bounce-cyclotron resonance in capacitive discharges at low magnetic fields	Patil S., Institute for Plasma Rese	Physical Sciences	Physical Review Research	2022	14	53
Hypoxia targeting lutetium-177-labeled nitroimidazole-decorated gold particles as cancer theranostic nanoplatfoms	Mittal S., Radiopharmaceuticals	Chemical Sciences	Materials Advances	2022	3	28
Physics studies of ADITYA & ADITYA-U tokamak plasmas using spectroscopic diagnostics	Manchanda R., Institute for Plas	Physical Sciences	Nuclear Fusion	2022	2	112
Measurement of prompt Ds+ meson production and azimuthal anisotropy in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	9	275
Beam dynamics simulation study for longitudinal bunch length measurement of RF modulated thermionic electron gun at VECC, Kolkata	Naser M.Z.A., Variable Energy Cy	Physical Sciences	Journal of Instrumentation	2022	0	85
Analysis of grinding in a spiral jet mill. Part 2: Semi-batch grinding	Dhakate M.M., Indian Institute o	Engineering Sciences	Chemical Engineering Science	2022	2	209
Nitrogen-doped hierarchically porous carbon obtained via single step method for high performance supercapacitors	Das T.K., Chemistry Division, Bha	Chemical Sciences	International Journal of Hydrogen Energy	2022	8	248
A mathematical and dosimetric approach to validate auto-contouring by Varian Smart segmentation for prostate cancer patients	Mandal S., Department of Radiat	Medical and Health Sciences	Precision Radiation Oncology	2022	3	7
Pembrolizumab weight based dosing - A call for policy change	Patel A., Department of Medicin	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	1	26
Mid-IR and VUV spectroscopic characterisation of thermally processed and electron irradiated CO2 astrophysical ice analogues	Mifsud D.V., Centre for Astroph	Physical Sciences	Journal of Molecular Spectroscopy	2022	6	72
MusaTAF2-like protein regulates shoot development and multiplication by inducing cytokinin hypersensitivity and flavonoid accumulation in banana plants	Bhakta S., Plant Cell Culture Tec	Life Sciences	Plant Cell Reports	2022	2	121
Laser-induced breakdown spectroscopy for simultaneous determination of lighter lanthanides in actinide matrix in aqueous medium	Maitly U.K., Homi Bhabha Natio	Chemical Sciences	Spectrochimica Acta - Part B Atomic Spectroscopy	2022	3	124
Remote data acquisition with wireless communication for a quad-GEM detector	Bhattacharyya R., Institute of Ph	Physical Sciences	Journal of Instrumentation	2022	3	85
Improved recovery of cellulose nanoparticles from printed wastepaper and its reinforcement in guar gum films	Palanichamy P., Food Process En	Life Sciences	Biomass Conversion and Biorefinery	2022	2	39
Activation cross section measurements and estimation of photon and neutron induced nuclear reactions for ytterbium isotopes with covariance analysis	Bholane G.T., Department of Ph	Physical Sciences	Radiation Physics and Chemistry	2022	2	83
Inference on fission timescale from neutron multiplicity measurement in 18O + 184W	Rai N.K., Department of Physics,	Physical Sciences	Journal of Physics G: Nuclear and Particle Physics	2022	2	112
NANOTORRID®: Graphene-like properties of a gold/polypropylene nanocomposite and its photothermal application	Jha A., NanoBios Lab, Departme	Life Sciences	Journal of Materials Research	2022	1	118

Thermo-gravimetric kinetics analysis for the synthesis of lithium aluminate and fabrication of pebbles by solid state reaction process	Ghuge N., Alkali Material & Metallurgy	Engineering Sciences	Journal of the Indian Chemical Society	2022	1	9
Phase transformation of heat-resistant energetic material BDNAPM studied by Raman spectroscopy and X-ray diffraction	Rajan R., Materials Science Group	Physical Sciences	Journal of Materials Science	2022	1	208
Improved water repellency and environmental stability of perovskite solar cells by encapsulating with paraffin wax	Koily S.P., Technical Physics Division	Physical Sciences	Materials Chemistry and Physics	2022	6	176
Transverse-single-spin asymmetries of charged pions at midrapidity in transversely polarized p+p collisions at $\sqrt{s}=200$ GeV	Acharya U.A., Georgia State Univ	Physical Sciences	Physical Review D	2022	2	378
Experimental study on controlled production of two-electron temperature plasma	Sharma G., Centre of Plasma Physics	Physical Sciences	Plasma Sources Science and Technology	2022	6	119
Structural transitions in TPGS micelles induced by trehalose as a model cryoprotectant	Arya S., Department of Pharmacy	Physical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	6	187
On the Competitive Substitutional Partitioning During Nano-pearlitic Transformation in Multicomponent Steels	Tripathy S., Academy of Scientific Research	Engineering Sciences	Metallurgical and Materials Transactions A: Physical Metallurgy and Applied Materials	2022	2	155
A converse theorem for quasimodular forms	Charan M., School of Mathematics	Mathematical Sciences	Forum Mathematicum	2022	0	37
Solvent-Free Synthesis of [DMIM]DMP Ionic Liquid in a Microreactor and Scale-Up Aspects	Sen N., Chemical Engineering Division	Engineering Sciences	Industrial and Engineering Chemistry Research	2022	3	245
Gamma-induced mutants of Bacillus and Streptomyces display enhanced antagonistic activities and suppression of the root rot and wilt diseases in pulses	Manikandan A., Department of Botany	Life Sciences	Biomolecular Concepts	2022	8	41
Production of Λ and $\bar{K}S0$ in jets in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV and pp collisions at $\sqrt{s}=7$ TeV	Acharya S., Variable Energy Cyclotron Centre	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	2022	4	275
Recent insights into SnO ₂ -based engineered nanoparticles for sustainable H ₂ generation and remediation of pesticides	Bhawna, Department of Chemistry	Chemical Sciences	New Journal of Chemistry	2022	9	131
In-situ H ₂ O ₂ production for tetracycline degradation on Ag/s-(Co ₃ O ₄ /NiFe ₂ O ₄) visible light magnetically recyclable photocatalyst	Kumar U., Department of Chemistry	Chemical Sciences	Applied Surface Science	2022	16	219
Lattice dynamics and negative thermal expansion in layered mercury-based halides	Sahoo S.S., Department of Physics	Physical Sciences	Materials Today Communications	2022	1	42
Detailed study of reactively sputtered ScN thin films at room temperature	Chowdhury S., Applied Science Centre	Physical Sciences	Materials	2022	2	33
Finite temperature 0 ⁺ glueball spectrum from non-susy D3 brane of Type IIB string theory	Nayek K., Indian Institute of Technology	Life Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	2022	0	275
Unusual Properties of Hydrogen-Bonded Ferroelectrics: The Case of Cobalt Formate	Ghosh P.S., Department of Physics	Physical Sciences	Physical Review Letters	2022	5	674
An Injectable in Situ Depot-Forming Lipidic Lyotropic Liquid Crystal System for Localized Intratumoral Drug Delivery	Saklani R., Division of Pharmacy	Chemical Sciences	Molecular Pharmaceutics	2022	5	148
Evaluation of binding performance of bioactive compounds against main protease and mutant model spike receptor binding domain of SARS-CoV-2: Docking, ADMET properties and molecular dynamics simulation study	Moharana M., Department of Chemistry	Applied Systems Analysis	Journal of the Indian Chemical Society	2022	8	9
Clinicopathologic Profile and Treatment Outcomes of Children with Diffuse Large B-cell Lymphomas: Experience from a Tertiary Cancer Center in India	Mande R., Departments of Pediatrics and Hematology	Medical and Health Sciences	Journal of Pediatric Hematology/Oncology	2022	0	83
Phyllodes Tumor as a Secondary Neoplasm in Survivors of Childhood Cancer: A Tertiary Care Cancer Centre Experience	Agarwal R., Departments of Pathology and Pediatrics	Medical and Health Sciences	Journal of Pediatric Hematology/Oncology	2022	0	83
SCC behaviour of laser and hybrid laser welded stainless steel weld joints	Ragavendran M., Senior Research Officer	Engineering Sciences	Materials Science and Technology (United Kingdom)	2022	0	108
Screening for Early Detection of Cervical Cancer in Women Living with HIV in Mumbai, India- Retrospective Cohort Study from a Tertiary Cancer Center	Pimple S.A., Department of Preventive Medicine	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	3	26
Determinants of Compliance for Breast and Cervical Cancers Screening among Female Police Personnel of Mumbai, India-A Cross-Sectional Study	Kulkarni V.Y., Department of Preventive Medicine	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Development of an innovative external (in air) Particle Induced Gamma-ray Emission method for rapid non-destructive determination of isotopic composition of boron in "As received" boron based ceramic neutron absorbers	Raja S.W., Radiochemistry Division	Chemical Sciences	Analytica Chimica Acta	2022	2	224
Electrochemical behaviour of LiCl-KCl eutectic melts containing moisture as impurity. Part I: Inert tungsten electrode	Swain L., Homi Bhabha National Centre	Chemical Sciences	Journal of Electroanalytical Chemistry	2022	3	167
Shifting Paradigm of the Management of Node-Negative Neck in Early Oral Cancers: Where do we Stand Today?	Vaish R., Department of Head and Neck Surgery	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	1	26
Compliance of Radiotherapy Treatment at a Tertiary Cancer Center in India-A Clinical Audit	Khanna N.R., Department of Radiation Therapy	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Effect of Menopausal Status on Chemotherapy-Induced Peripheral Neuropathy: Single-Institution Retrospective Audit	Singh A., Department of Surgical Oncology	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	2	26
Study on Thermal Stability of Zr ₄₆ Cu _{40-x} Ag _{6-x} Al ₈ (x = 0 & 2.5) Bulk Metallic Glass	Saini S., Materials Science Division	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39
Nurses on the Frontline Against the COVID-19 Pandemic: Experience from a Tertiary Referral Cancer Center	Nair S., Department of Nursing	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
The Interplay between COVID-19 and Cancer: Challenges and Perspectives	Sengar M., Department of Medical Oncology	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Fast Polarons Formation and Low Carrier Mobility in Defect-Free Polyhedral CsPbBr ₃ Perovskite Nanocrystals	Justice Babu K., Institute of Nanotechnology	Chemical Sciences	ACS Photonics	2022	14	117
High-Pressure Properties of Wolframite-Type ScNbO ₄	Ouahrani T., Laboratoire de Physique	Physical Sciences	Journal of Physical Chemistry C	2022	9	323
Structural Metamorphosis and Band Dislocation of Trirutile NiTa ₂ O ₆ under Compression	Karmakar S., Department of Physics	Physical Sciences	Journal of Physical Chemistry C	2022	1	323
Disappearance of partonic collectivity in $\sqrt{s_{NN}}=3$ GeV Au+Au collisions at RHIC	Abdallah M.S., American University	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	2022	20	275
Prevalence and Determinants of Human Papilloma Virus Infection and Cervical Intraepithelial Neoplasia (CIN) among Women Living with HIV/AIDS in Mumbai, India	Pahwa V., Department of Preventive Medicine	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Highly efficient uptake of Europium (III) and Americium (III) from acidic feeds using extraction chromatography resins containing N,N,N',N'-tetra alkyl diglycolamides with varying alkyl chain length in an ionic liquid	Yadav A.G., Advanced Fuel Fabrication	Chemical Sciences	Journal of Chromatography A	2022	4	244

Nonlinear waves in a hot, viscous and non-extensive quark-gluon plasma	Sarwar G., School of Physical Sci	Physical Sciences	European Physical Journal C	2022	2	188
Electronic structure of rare-earth semiconducting ErN thin films determined with synchrotron radiation photoemission spectroscopy and first-principles analysis	Upadhyay K., Chemistry and Phys	Physical Sciences	Physical Review B	2022	4	481
Designing robust quantum refrigerators in disordered spin models	Konar T.K., Harish-Chandra Rese	Physical Sciences	Physical Review A	2022	2	261
Signature of fusion suppression in complex fragment emission	Manna S., Variable Energy Cyclot	Physical Sciences	Physical Review C	2022	0	229
Measurement of inclusive electrons from open heavy-flavor hadron decays in p+p collisions at s=200 GeV with the STAR detector	Abdallah M.S., American Univers	Physical Sciences	Physical Review D	2022	2	378
Heat current and entropy production rate in local non-Markovian quantum dynamics of global Markovian evolution	Ghoshal A., Harish-Chandra Rese	Physical Sciences	Physical Review A	2022	1	281
Experimental evidence for a production following neutron transfer in the C-13 + Nb-93 system	Kumawat H., Nuclear Physics Div	Chemical Sciences	Physical Review C	2022	1	229
Influence of high energy electrons on negative ion density in a hot cathode discharge	Sangma J., Centre of Plasma Phy	Physical Sciences	Physics of Plasmas	2022	2	169
Solubility enhancement and Au-Ni bimetallic alloy formation in immiscible Au/Ni multilayers by ion irradiation	Bouchareb I., Laboratoire de Ger	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section B: E	2022	1	127
Crustal properties of a neutron star within an effective relativistic mean-field model	Parmar V., School of Physics and	Physical Sciences	Physical Review D	2022	7	378
Exploring breakup coupling effect in $7\text{Li} + ^{92,100}\text{Mo}$ elastic scattering around Coulomb barrier energies	Joshi C., Department of Physics,	Physical Sciences	European Physical Journal A	2022	2	105
Effect of a Metallocene Catalyst Mixture on CNT Yield Using the FC-CVD Process	Chauhan D., Department of Mec	Engineering Sciences	Catalysts	2022	4	72
Subleading conformal dimensions at the O(4) Wilson-Fisher fixed point	Banerjee D., Saha Institute of Nu	Physical Sciences	Physical Review D	2022	4	378
Study of Solid Hydrogen Pellet Speed in a Gas Gun-Type Injector	Mishra J., Institute for Plasma Re	Physical Sciences	Fusion Science and Technology	2022	0	57
Red Light and Glucose Enhance Cytokinin-Mediated Bud Initial Formation in Physcomitrium patens	Biswal D.P., School of Biological S	Life Sciences	Plants	2022	0	67
Nonequilibrium thermal state of a voltage-biased Mott insulator	Dutta A., Harish-Chandra Resear	Physical Sciences	Physical Review B	2022	1	481
Polarization-path-frequency entanglement using interferometry and frequency shifters	Guha Majumdar M., Quantum O	Physical Sciences	Journal of Physics B: Atomic, Molecular and Optical Physics	2022	0	133
Titanium nitride as an alternative and reusable plasmonic substrate for fluorescence coupling†	Mishra P., Materials Processing &	Physical Sciences	Physical Chemistry Chemical Physics	2022	1	272
Simple Two-step, High Yield Protocol for Isolation and Amplification of Bacteriophages Against Methicillin-resistant Staphylococcus Aureus (MRSA)	Khan A., Biofouling and Biofilm P	Life Sciences	Current Protocols	2022	0	11
Differential colitis susceptibility of Th1- And Th2-biased mice: A multi-omics approach	Mukhopadhyay S., School of Bio	Life Sciences	PLOS ONE	2022	3	404
Resolute control: Forbidding candidates from winning an election is hard	Gupta S., The Institute of Mathe	Mathematical Sciences	Theoretical Computer Science	2022	1	125
Electric Field Control of Magnetism of a Mn Dimer Supported on a Carbon-Doped h-BN Surface	Sahoo M.R., Harish-Chandra Rese	Physical Sciences	Journal of Physical Chemistry C	2022	0	333
On the hot isostatic pressing of inconel 625 structures built using laser powder bed fusion at higher layer thickness	Nayak S.K., Homi Bhabha Nation	Engineering Sciences	International Journal of Advanced Manufacturing Technology	2022	1	146
SARS-CoV-2 reinfection after previous infection and vaccine breakthrough infection through the second wave of pandemic in India: An observational study	Dhumal S., Department of Radia	Medical and Health Sciences	International Journal of Infectious Diseases	2022	10	118
Convection-Permitting WRF Simulations of Tropical Cyclones Over the North Indian Ocean	Mohan P.R., Environmental Asse	Physical Sciences	Pure and Applied Geophysics	2022	1	101
Properties of hot finite nuclei and associated correlations with infinite nuclear matter	Parmar V., School of Physics and	Physical Sciences	Physical Review C	2022	0	229
Co(III)-Catalyzed C-H/N-H Annulation of Cyclic Alkenes with Indole-2-carboxamides at Room Temperature: One-Step Access to β -Carboline-1-one Derivatives	Das Adhikari G.K., School of Che	Chemical Sciences	Journal of Organic Chemistry	2022	4	239
Bispectral analysis of nonlinear mixing in a periodically driven Korteweg-de Vries system	Mir A., Indian Institute of Techn	Physical Sciences	Physics of Plasmas	2022	3	169
Evaluation of Thermal Cycling Performance of Plasma Sprayed Alumina Coating on Inconel 600 with Different Bond Coats	Shankar A.R., Corrosion Science	Physical Sciences	Journal of Materials Engineering and Performance	2022	2	78
Modulating the optical and electrical properties of oxygen vacancy-enriched La ₂ Ce ₂ O ₇ :Sm ³⁺ pyrochlore: role of dopant local structure and concentration	Gupta S.K., Radiochemistry Divis	Chemical Sciences	New Journal of Chemistry	2022	2	131
Leptonic scalars and collider signatures in a UV-complete model	Dev P.S.B., Department of Physic	Physical Sciences	Journal of High Energy Physics	2022	8	247
Tailoring stability and thermophysical properties of CuO nanofluid through ultrasonication	Shah J., FIPT, Institute for Plaso	Physical Sciences	Journal of Thermal Analysis and Calorimetry	2022	4	111
Development of a Compact Multivariable Sensor Probe for Two-Phase Detection in High Temperature PBU-argon Vertical Columns	Saraswat A., Institute for Plasma	Engineering Sciences	Instruments and Experimental Techniques	2022	0	36
A preference for link operator functions can drive Boolean biological networks towards critical dynamics	Subbaroyan A., The Institute of H	Life Sciences	Journal of Biosciences	2022	0	80
Molten Salt Compatibility of a Ni-Cr-Mo-Ti Alloy Developed Indigenously for the Indian MSBR	Chakraborty P., Materials Scienc	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39
Laser intensity profile based terahertz field enhancement from a mixture of nano-particles embedded in a gas	Varshney P., Institute for Plasma	Physical Sciences	Optical and Quantum Electronics	2022	3	68
Probing Lorentz Invariance Violation with atmospheric neutrinos at INO-ICAL	Sahoo S., Institute of Physics, Sa	Physical Sciences	Journal of High Energy Physics	2022	4	247
Microstructural and Micro-Analysis of Zirconium: Stainless Steel alloys for Radioactive Metallic Waste Management	Sengupta P., Materials Science D	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39

Theoretical and experimental studies on dispersive characteristics of a sequence of tilted lenses with centration errors	Sharma A.K., Laser Technology D	Physical Sciences	Applied Physics B: Lasers and Optics	2022	0	139
Enhanced lasing action in Cr:forsterite laser using temporally separated pump pulses	Sahoo S.P., Beam Technology De	Physical Sciences	Optics and Laser Technology	2022	0	96
G8 and VES-13 as screening tools for geriatric assessment and predictors of survival in older Indian patients with cancer	Shah M., Department of Medical	Medical and Health Sciences	Journal of Geriatric Oncology	2022	4	48
Global Fourier Integral Operators in the Plane and the Square Function	Manna R., School of Mathematic	Mathematical Sciences	Journal of Fourier Analysis and Applications	2022	0	62
Optimizing Postoperative Adjuvant Therapy in Elderly Patients with Newly Diagnosed Glioblastoma: Single-Institution Audit of Clinical Outcomes from a Tertiary-Care Comprehensive Cancer Center in India	Chatterjee A., Department of Ra	Medical and Health Sciences	World Neurosurgery	2022	0	106
Numerical Study on the Effect of Plasma Density on Runaway Electron Suppression in the ADITYA-U Tokamak	Patel A., Pandit Deendayal Petro	Physical Sciences	IEEE Transactions on Plasma Science	2022	3	114
Inter-diffusion and stability studies in W/Cr and W/Fe films using ion beam analysis	Reddy G.L.N., National Center fo	Chemical Sciences	Nuclear Instruments and Methods in Physics Research, Section B	2022	1	127
Relationship between the Mobility of Aggregates and Fluid Penetration Depth Across a Range of Fractal Dimensions Using Stokesian Dynamics	Amalaruban A., Department of C	Physical Sciences	Langmuir	2022	1	89
Thermodynamic properties over $\langle U \rangle$ two phase region of U-Al system: Knudsen Effusion Mass Spectrometric study	Trinadh V.V., Materials Chemist	Chemical Sciences	Journal of Nuclear Materials	2022	0	157
A new technique to enhance the position resolution of large area plastic scintillators to reconstruct the cosmic muon tracks	Sehgal R., Nuclear Physics Divisi	Physical Sciences	Journal of Instrumentation	2022	2	85
Subglan bloc resection improves extent of resection in infiltrating gliomas – A propensity matched comparative cohort analysis	Mishra A., Neurosurgical Oncolo	Medical and Health Sciences	Clinical Neurology and Neurosurgery	2022	0	81
Patterns of Relapse After Adjuvant Chemoradiation for Cervical Cancer in a Phase 3 Clinical Trial (PARCER): An Evaluation of Updated NRG Oncology/RTOG Target Delineation Guidelines	Mittal P., Department of Radiati	Medical and Health Sciences	International Journal of Radiation Oncology Biology Physics	2022	2	208
A spectroscopic study of benzonitrile	Rajsekhar B.N., Atomic and Mo	Physical Sciences	Journal of Quantitative Spectroscopy and Radiative Transfer	2022	3	116
Tuning the giant magnetocaloric effect in MnCoGe alloy with external pressure	Sharma V.K., Fel and Utilization S	Physical Sciences	AIP Advances	2022	1	73
Biological and cellular responses of humans to high-level natural radiation: A clarion call for a fresh perspective on the linear no-threshold paradigm	Ghosh A., Animal House Facility	Life Sciences	Mutation Research - Genetic Toxicology and Environmental Mutagen	2022	1	121
Heterostructured Metallic 1T-VSe ₂ /Ti ₃ C ₂ TMXene Nanosheets for Energy Storage	Raj Ka S., Centre for Nano and M	Physical Sciences	ACS Applied Nano Materials	2022	14	64
AlFe ₃ O ₁₂ nanoparticles loaded electrospun PVDF fibres: An inorganic-organic material with multifunctional traits	Rahul M.T., Department of Phys	Physical Sciences	Materials Chemistry and Physics	2022	3	170
Hepatocellular Carcinoma Metastasising to Anterior Chest Wall: a Rare Occurrence	Mundhada R.O., Department of	Medical and Health Sciences	Journal of Gastrointestinal Surgery	2022	0	139
Condition dependent self-aggregation behavior of aerosol-OT in mixed water-alcohol media: Physicochemical Investigation	Pan A., Centre for Surface Scienc	Physical Sciences	Journal of Molecular Liquids	2022	2	150
Phase I Study Evaluating Dose De-escalation of Sorafenib with Metformin and Atorvastatin in Hepatocellular Carcinoma (SMASH)	Ostwal V., Department of Medic	Life Sciences	Oncologist	2022	6	180
Thermodynamics of micellization and oil solubilization in block copolymers P85	Basu M., Chemistry Division, Bha	Chemical Sciences	Journal of Thermal Analysis and Calorimetry	2022	0	111
Organ preserving pancreatic resections offer better long-term conservation of pancreatic function at the expense of high perioperative major morbidity: a fair trade-off for benign or low malignant potential pancreatic neoplasms—a single-center experience	Gupta V., Gastrointestinal and H	Medical and Health Sciences	Langenbeck's Archives of Surgery	2022	0	80
Study of microsecond X-pinch of refractory and non-refractory metals	Andola S.C., Applied Physics Divi	Physical Sciences	Journal of Physics D: Applied Physics	2022	0	220
Rigorous Predictive Noise Modeling Approach for Model-Based Onset Detection and Enhanced Picking of P-Waves in Seismic Signals	Aggarwal K., Indian Institute of T	Engineering Sciences	IEEE Access	2022	0	204
Pore architecture evolution and OER catalytic activity of hollow Co/Zn Zeolitic Imidazolate Frameworks	Mor J., Radiochemistry Division,	Chemical Sciences	Microporous and Mesoporous Materials	2022	6	179
Investigation of a SiPM-GGAG:Ce,B scintillator detector for environmental gamma radiation monitoring	Srivastava S., Environmental Mo	Engineering Sciences	Journal of Instrumentation	2022	0	85
The clinical challenges and dilemma in the management of uncommon maxillary sinus tumors - A report of two cases	Jain S., Department of Head and	Medical and Health Sciences	Journal of Oral and Maxillofacial Pathology	2022	1	35
Wiener index of graphs with fixed number of pendant or cut-vertices	Pandey D., School of Mathemat	Mathematical Sciences	Czechoslovak Mathematical Journal	2022	1	32
Synthesis and thermodynamic properties of the perovskite BaRuO ₃ (s) by calorimetry and fluoride ion galvanic cell	Banerjee A., Homi Bhabha Natio	Chemical Sciences	Journal of Solid State Electrochemistry	2022	0	94
Protection of qubits by nonlinear resonances	Saini R.K., Department of Physic	Physical Sciences	European Physical Journal Plus	2022	3	76
Radiological consequence assessment for hypothetical nuclear explosion scenario using HotSpot	Kundu D., Safety Quality and Res	Physical Sciences	Progress in Nuclear Energy	2022	0	74
Investigation of radiation damage using thermal spike model for SHI irradiation on Al ₂ O ₃	Patra P., Institute for Plasma Res	Physical Sciences	Radiation Effects and Defects in Solids	2022	3	33
1,3-Dialkylated Imidazolium Ionic Liquid Causes Interdigitated Domains in a Phospholipid Membrane	Gupta R., Department of Physic	Physical Sciences	Langmuir	2022	3	359
Hydrogel-Mediated Release of TRPV1 Modulators to Fine Tune Osteoclastogenesis	Chakraborty R., School of Biolog	Life Sciences	ACS Omega	2022	3	77
Maxwell-Wagner Relaxation-Driven High Dielectric Constant in Al ₂ O ₃ /TiO ₂ Nanolaminates Grown by Pulsed Laser Deposition	Padhi P.S., Oxide Nano Electron	Physical Sciences	ACS Applied Materials and Interfaces	2022	6	284
Correlation between microstructure and nanomechanical properties of 9Cr-1Mo ferritic martensitic steel through instrumented indentation technique	Sreepriva T., HBNI, IGCAR, Kalba	Engineering Sciences	Materials Science and Engineering: A	2022	4	267
Probing collective enhancement in nuclear level density with evaporation α particle spectra	Mohanto G., Bhabha Atomic Res	Physical Sciences	Physical Review C	2022	1	229

Design principles of low-activation high entropy alloys	Tan L., School of Science, Lough	Engineering Sciences	Journal of Alloys and Compounds	2022	8	200
Prevalence of human papillomavirus types in head and neck cancer sub-sites in the Indian population	Gholap D., Centre for Cancer Ep	Medical and Health Sciences	ecancermedicalse	2022	2	42
A comparative study of ultrafast carrier dynamics near A, B, and C-excitons in a monolayer MoS ₂ at high excitation densities	Khatua D.P., Nano Science Labor	Physical Sciences	Optical Materials	2022	2	113
Multiwavelength study of the gravitationally lensed blazar OSO B0218+357 between 2016 and 2020	Acciari V.A., Instituto de Astrofis	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	4	357
Equilibrium properties of inhomogeneous partially-magnetized plasma containing negative ions	Singh P., Institute for Plasma Res	Physical Sciences	Journal of Physics D: Applied Physics	2022	1	220
Investigation of octupole deformed fragments decaying from even-even isotopes of Th + 222-230	Jain S., School of Physics and Ma	Physical Sciences	Physical Review C	2022	1	229
Effect of heat-up and oxidation on the PHWR channel under severe accident scenario-an experimental study	Singh A.R., AVTAR (Aerodynamic	Engineering Sciences	International Journal of Pressure Vessels and Piping	2022	2	87
Search for the Chiral Magnetic Effect via Charge-Dependent Azimuthal Correlations Relative to Spectator and Participant Planes in Au+Au Collisions at sNN =200 GeV	Abdallah M.S., American Univers	Physical Sciences	Physical Review Letters	2022	13	674
Identification of Penicillic Acid as the Active Principle of Penicillium polonicum Inhibiting the Plant Pathogen Pythium aphanidermatum, and Elucidation of Its Crystal Structure	Bauri A.K., Bio-Organic Division, I	Life Sciences	Chemistry Select	2022	0	51
Structure, mechanical and thermo-physical properties of lanthanide fission product doped UO ₂ in U(V) state: A density functional study	Vazhappilly T., Theoretical Chem	Chemical Sciences	Solid State Communications	2022	1	139
The impact of COVID-19 on health care-associated infections in intensive care units in low- and middle-income countries: International Nosocomial Infection Control Consortium (INICC) findings	Rosenthal V.D., Department of P	Medical and Health Sciences	International Journal of Infectious Diseases	2022	22	118
Probable decay modes of even-even superheavy nuclei	Pathak D., Department of Physic	Physical Sciences	Physica Scripta	2022	2	91
Outcomes of non-metastatic triple negative breast cancers: Real-world data from a large Indian cohort	Bajpai J., Tata Memorial Centre, I	Medical and Health Sciences	Breast	2022	1	72
Disorders can induce continuously varying universal scaling in driven systems	Haldar A., Theory Division, Saha	Physical Sciences	Physical Review E	2022	0	317
Phase transition from nematic to high-density disordered phase in a system of hard rods on a lattice	Shah A., Indian Institute of Scien	Physical Sciences	Physical Review E	2022	9	317
Estimating minimum energy requirement for transitioning to a net-zero, developed India in 2070	Bhattacharyya R., Applied System	Engineering Sciences	Current Science	2022	6	130
Cost Effectiveness of Bevacizumab Plus Chemotherapy for the Treatment of Advanced and Metastatic Cervical Cancer in India—A Model-Based Economic Analysis	Gupta N., Department of Radiat	Medical and Health Sciences	JCO Global Oncology	2022	3	33
Outcomes of Ewing sarcoma in adults over 40 years of age from a low-middle income country	Panda G., Department of Medic	Medical and Health Sciences	ecancermedicalse	2022	1	42
Measurement of the Groomed Jet Radius and Momentum Splitting Fraction in pp and Pb-Pb Collisions at sNN =5.02 TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Physical Review Letters	2022	16	674
Development of a new type of metallic mirrors for 21m MACE γ -ray telescope	Dhar V.K., Astrophysical Science	Physical Sciences	Journal of Astrophysics and Astronomy	2022	1	34
Dwelling deep into the anisotropic transport of Zintl Ca3Sb2	Galaria T.K., Department of Phys	Physical Sciences	Materials Science and Engineering: B	2022	1	129
Next-to SV resummed Drell–Yan cross section beyond leading-logarithm	Ajjath A.H., The Institute of Mat	Physical Sciences	European Physical Journal C	2022	6	188
Utilization of accelerator and reactor based nuclear analytical techniques for chemical characterization of automobile windshield glass samples and potential of statistical analyses using trace elements towards glass forensics	Sharma V., Radiochemistry Divis	Chemical Sciences	Forensic Science International	2022	10	134
Atomic scale insights on the growth of BiFeO ₃ nanoparticles	Parvathy N.S., Materials Science	Physical Sciences	Scientific Reports	2022	5	282
Interface-Engineered Porous Pt-PdO Nanostructures for Highly Efficient Hydrogen Evolution and Oxidation Reactions in Base and Acid	Samanta R., School of Chemical S	Chemical Sciences	ACS Sustainable Chemistry and Engineering	2022	13	155
Green synthesis based X-type Ba–Zn Hexaferrites: Their structural, Hysteresis, Mössbauer, dielectric and electrical properties	Kaedi A.R., Department of Physic	Physical Sciences	Materials Chemistry and Physics	2022	5	170
Concerted effect of Ni-in and S-out on ReS ₂ nanostructures towards high-efficiency oxygen evolution reaction	Das T.K., Materials Chemistry De	Chemical Sciences	Chemical Communications	2022	8	362
Oblique angle deposited FeCo multilayered nanocolumnar structure: Magnetic anisotropy and its thermal stability in polycrystalline thin films	Dev A.S., UGC-DAE Consortium f	Physical Sciences	Applied Surface Science	2022	3	219
Emergent half-metal at finite temperatures in a Mott insulator	Jana G., School of Physical Scienc	Physical Sciences	Communications Physics	2022	0	41
Precise determination of plutonium in nuclear fuel process samples	Dhamodharan K., Reprocessing C	Chemical Sciences	Analytical Sciences	2022	0	79
Theoretical inspection of Ni/ α -SIX (X=N, P, As, Sb, Bi) Single-Atom catalyst: Ultra-high performance for hydrogen evolution reaction	Chodvadiya D., Department of P	Physical Sciences	International Journal of Hydrogen Energy	2022	13	248
Altered proteome in translation initiation fidelity defective eIF5G31R mutant causes oxidative stress and DNA damage	Ram A.K., School of Biological Sc	Life Sciences	Scientific Reports	2022	2	282
Synthesis and characterization of chemical vapour deposited pyrolytic graphite	Vetrivendan E., Corrosion Scienc	Chemical Sciences	Thin Solid Films	2022	6	206
Is Clinical Research Serving the Needs of the Global Cancer Burden? An Analysis of Contemporary Global Radiation Therapy Randomized Controlled Trials	Dodkins J., Guy's and St Thomas'	Medical and Health Sciences	International Journal of Radiation Oncology Biology Physics	2022	8	268
Standing wave hard X-ray photoemission study of the structure of the interfaces in Ta/Co ₂ FeAl/MgO multilayer	Vishwakarma P., Amity Center fo	Physical Sciences	Applied Surface Science	2022	2	219
Secretagogin in the brain and pituitary of the catfish, <i>Clarias batrachus</i> : Molecular characterization and regulation by insulin	Basu S., School of Biological Scie	Life Sciences	Journal of Comparative Neurology	2022	0	222
B-dot probe measurements on plasma plume expansion across the magnetic field	Behera N., Institute for Plasma R	Physical Sciences	Plasma Research Express	2022	0	9
Mapping defects during phase transformation in high Cr content NiCr solid-solution through positron trapping	Maheshwari P., Radiochemistry	Chemical Sciences	Journal of Alloys and Compounds	2022	0	208

Hydrogen storage in scandium decorated triazine based g-C ₃ N ₄ : Insights from DFT simulations	Chakraborty B., High Pressure an	Physical Sciences	International Journal of Hydrogen Energy	2022	17	248
Choline chloride and ethylene glycol based deep eutectic solvent (DES) versus hydroxyl functionalized room temperature ionic liquids (RTILs): assessing the differences in microscopic behaviour between the DES and RTILs*	Barik S., School of Chemical Scie	Chemical Sciences	Physical Chemistry Chemical Physics	2022	9	272
Virtual screening of phytochemicals from Indian medicinal plants against the endonuclease domain of SFTS virus L polymerase	Vivek-Ananth R.P., The Institute	Life Sciences	RSC Advances	2022	6	188
Antibody mediated cotton-archetypal substrate for enumeration of circulating tumor cells and chemotherapy outcome in 3D tumors	Arora S., Actorius Innovations an	Medical and Health Sciences	Lab on a Chip	2022	2	234
Dark radiation and the Hagedorn phase	Frey A.R., Department of Physics	Physical Sciences	Physical Review D	2022	3	378
Measurement of K α (892) _e production in inelastic pp collisions at the LHC	Acharya S., Variable Energy Cycl	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	2	275
ON THE DEGREES OF IRREDUCIBLE FACTORS OF A POLYNOMIAL	Jakhar A., Indian Institute of Tec	Mathematical Sciences	Proceedings of the American Mathematical Society	2022	0	86
Transitions from Abelian composite fermion to non-Abelian parton fractional quantum Hall states in the zeroth Landau level of bilayer graphene	Balram A.C., Institute of Mather	Physical Sciences	Physical Review B	2022	8	481
Systematic generation of the cascade of anomalous dynamical first- and higher-order modes in Floquet topological insulators	Ghosh A.K., Institute of Physics,	Physical Sciences	Physical Review B	2022	12	481
Neutron irradiation induced magnetization and persistent defects at high temperatures in graphite	Mittal R., Solid State Physics Div	Chemical Sciences	Physical Review B	2022	1	481
A green analytical approach for the direct non-destructive compositional analysis of (Th, U)O ₂ fuel pellets by the X-Ray Fluorescence technique using single universal calibration	Kanrar B., Fuel Chemistry Divisio	Chemical Sciences	Journal of Analytical Atomic Spectrometry	2022	3	123
Discretized evolution of solitons in the achiral stripe phase of a Fe/Gd thin film	Singh A., Surface Physics and Ma	Physical Sciences	Physical Review B	2022	1	481
Unique transport behaviour of Am(III)/Eu(III) ions across a supported liquid membrane containing a TREN-based diglycolamide dendrimer ligand	Mahanty B., Radiochemistry Div	Chemical Sciences	Radiochimica Acta	2022	0	71
Instantaneous-Progressive nucleation and growth of palladium during electrodeposition	Pise M., Department of Energy S	Engineering Sciences	Results in Surfaces and Interfaces	2022	7	49
Smart releasing CuS/ZnS nanocomposite dual drug carrier and photothermal agent for use as a therapeutic tool for cancer therapy	Shetty A., Department of Biologi	Life Sciences	Journal of Drug Delivery Science and Technology	2022	3	63
Effect of surface state of austenitic type 304L SS on oxide characteristics formed in high temperature high pressure water	Das A., Homi Bhabha National In	Engineering Sciences	Journal of Nuclear Materials	2022	2	157
Outcomes of surgical versus non-surgical treatment of resectable T 4 laryngeal and hypopharyngeal carcinoma	Thiagarajan S., Department of H	Medical and Health Sciences	Journal of Laryngology and Otology	2022	0	72
Synthesis and computational aspects of Al(i)-Al(ii) and Ga(i)-Ga(ii) dihalides based on an amidinate scaffold	Kumar A., Institut für Anorganic	Chemical Sciences	Dalton Transactions	2022	1	203
Outcomes of Cervical Cancer in HIV-Positive Women Treated With Radiotherapy at a Tertiary Care Center in India	Gurram L., Department of Radiat	Life Sciences	JCO Global Oncology	2022	1	33
Elucidation of the sorbent role in sorption thermodynamics of uranium(vi) on goethite	Kumar S., Radioanalytical Chemi	Chemical Sciences	Environmental Science: Processes and Impacts	2022	2	113
Post irradiated microstructure and mechanical properties of pure V	Gayathri N., HomiBhabha Nation	Engineering Sciences	Journal of Nuclear Materials	2022	2	157
Numerical Simulation of A Bi-directional Plasma Thruster for Space Debris Removal	Saini V., Institute for Plasma Res	Physical Sciences	Journal of Plasma Physics	2022	1	49
RMAC study: A randomized study for evaluation of metronomic adjuvant chemotherapy in recurrent head and neck cancers post salvage surgical resection in those who are ineligible for re-irradiation	Patil V., Department of Medical	Medical and Health Sciences	Oral Oncology	2022	1	128
Prognostic Impact of Pattern of Mandibular Involvement in Gingivo-Buccal Complex Squamous Cell Carcinomas: Marrow and Mandibular Canal Staging System	Mahaian A., Department of Radi	Medical and Health Sciences	Frontiers in Oncology	2022	3	121
Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy in a 2-Year-Old Child with Abdominopelvic Rhabdomyosarcoma: A Case Report of Anaesthetic Concerns	Doctor J.R., Department of Anae	Medical and Health Sciences	Turkish Journal of Anaesthesiology and Reanimation	2022	1	16
Enhanced electrochemical properties of W-doped Na ₃ V ₂ (PO ₄) ₂ F ₃ @C as cathode material in sodium ion batteries	Nongklynrh J., Chemistry Divisio	Chemical Sciences	Electrochimica Acta	2022	9	263
Probing the Short-Range Ordering of Ion Irradiated Gd ₂ Ti ₂ -yzryO ₇ (0.0 ≤ y ≤ 2.0) Pyrochlore under Electronic Stopping Regime	Kumar A., Gautum Buddha Univ	Chemical Sciences	Journal of Nuclear Materials	2022	8	157
Synthesis and structural characterization of pure and Nd-doped zircon	Kumar Y., Beamline Developmen	Engineering Sciences	Materials Today: Proceedings	2022	0	56
Charging and dynamics of polystyrene latex aerosols under bipolar and unipolar ion field-ELPI measurements and comparison with charging theories	Pujala U., Radiological & Environ	Physical Sciences	Journal of Electrostatics	2022	1	83
Impact of SST on the intensity prediction of Extremely Severe Tropical Cyclones Fani and Amphan in the Bay of Bengal	Reshmi Mohan P., Health Safet	Physical Sciences	Atmospheric Research	2022	6	105
Critical Role of Flow Cytometric Immunophenotyping in the Diagnosis, Subtyping, and Staging of T-Cell/NK-Cell Non-Hodgkin's Lymphoma in Real-World Practice: A Study of 232 Cases From a Tertiary Cancer Center in India	Tembhare P.R., Hematopatholog	Medical and Health Sciences	Frontiers in Oncology	2022	3	121
Carbon-Centered Hydrogen Bonds in Proteins	Dutta J., School of Chemical Scie	Chemical Sciences	Journal of Chemical Information and Modeling	2022	11	180
Quantitative determination of ¹³⁷ Cs and ⁹⁰ Sr in dissolve solutions without pre-separation by isotope dilution thermal ionization mass spectrometry	Namitha J., Homi Bhabha Nation	Chemical Sciences	Journal of Analytical Atomic Spectrometry	2022	0	123
Silver, Copper, Magnesium and Zinc Contained Electroactive Mesoporous Bioactive SS3P4 Glass-Ceramics Nanoparticle for Bone Regeneration: Bioactivity, Biocompatibility and Antibacterial Activity	Kumar A., Department of Physic	Physical Sciences	Journal of Inorganic and Organometallic Polymers and Materials	2022	3	57
Improvement of limit of detection sensitivities in the parts per billion range using conventional geometry synchrotron radiation excited EDXRF measurements	Alam M.A., Synchrotrons Utilizat	Physical Sciences	Journal of Analytical Atomic Spectrometry	2022	1	123

Investigation of mechanical, lattice dynamical, electronic and thermoelectric properties of half Heusler chalcogenides: A DFT study	Dutt R., Raja Ramanna Centre fo	Physical Sciences	Journal of Physics and Chemistry of Solids	2022	4	117
Determination of Sr to Ca ratio in solid carbonate, fluoride, and nitrate samples using the fundamental parameters of EDXRF: experimental and empirical evaluation of non-destructive assays in light matrices	Remya Devi P.S., Analytical Chem	Chemical Sciences	Journal of Analytical Atomic Spectrometry	2022	0	123
Unraveling pH-responsive contrasting supramolecular interaction of acridine orange with γ -Cyclodextrin	Sayed M., Radiation & Photoche	Chemical Sciences	Journal of Molecular Structure	2022	2	117
Quality of life in patients with locally advanced head and neck squamous cell carcinoma undergoing concurrent chemoradiation with once-a-week versus once-every-3-weeks cisplatin	Menon N.S., Department of Med	Medical and Health Sciences	Cancer Medicine	2022	0	53
The Defining Role of Micro-fissures on the Mechanical Behavior of Laser-Welded Fully Austenitic Stainless Steel	Sarkar A., Department of Metall	Engineering Sciences	Metallurgical and Materials Transactions A: Physical Metallurgy and	2022	2	155
Safety of osimertinib in adult patients with metastatic epidermal growth factor receptor T790M mutation-positive non-small cell lung cancer: Results from a Phase IV study in India	Malik P.S., Department Of Medic	Medical and Health Sciences	Indian Journal of Cancer	2022	0	42
CONCORDANCE: A real-world evidence study to evaluate the concordance of detecting epidermal growth factor receptor (EGFR) mutation by circulating tumor DNA+ versus tissue biopsy in patients with metastatic non-small cell lung cancer	Prabhashi K., Department Of Med	Medical and Health Sciences	Indian Journal of Cancer	2022	0	42
Spectrophotometric determination of europium in aqueous samples and interference of Fe ³⁺ , UO ₂ ²⁺ and Th ⁴⁺ and other complexing agents on determination	Pillai J.S., Fuel Chemistry Division	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	1	73
Co-aggregation and secondary nucleation in the life cycle of human prolactin/galanin functional amyloids	Chatterjee D., Department of Bi	Life Sciences	eLife	2022	4	184
Comparative study of LBS signal for single and colliding plasma plumes in a variable magnetic field	Tiwari P.K., Institute for Plasma I	Physical Sciences	Spectrochimica Acta - Part B Atomic Spectroscopy	2022	6	124
Jamming of Nano-Ellipsoids in a Microsphere: A Quantitative Analysis of Packing Fraction by Small-Angle Scattering	Das A., Solid State Physics Divisi	Physical Sciences	Langmuir	2022	2	359
Possible TeV Gamma-Ray Binary Origin of HESS J1828-099	De Sarkar A., Astronomy and Ast	Physical Sciences	Astrophysical Journal Letters	2022	1	184
Investigating the Blazar TXS 0506+056 through Sharp Multiwavelength Eyes during 2017-2019	Acciari V.A., Instituto de Astrofis	Physical Sciences	Astrophysical Journal	2022	7	462
Radiotherapy molds: An approach to fabricating facial moulage	Gupta L., Professor, Department	Medical and Health Sciences	Journal of Prosthetic Dentistry	2022	0	143
Node positivity in T3b gallbladder cancer: A high volume centre experience	Goel M., Gastrointestinal and He	Medical and Health Sciences	European Journal of Surgical Oncology	2022	3	110
Design of Hierarchical Oxide-Carbon Nanostructures for Trifunctional Electrocatalytic Applications	Rachna Devi H., Materials Resea	Physical Sciences	Advanced Materials Interfaces	2022	5	91
Probing grain boundary dependence of damage evolution under shock loading in a variety of FCC metals	Chandra S., Reactor Technology	Engineering Sciences	Physics Letters, Section A: General, Atomic and Solid State Physics	2022	0	102
Effect of hole geometry on charge sharing and other parameters in GEM-based detectors	Roy P., Saha Institute of Nuclear	Physical Sciences	Journal of Instrumentation	2022	1	85
Interface morphology driven exchange interaction and magnetization reversal in a Gd/Co multilayer	Singh S., Solid State Physics Divis	Physical Sciences	Physical Chemistry Chemical Physics	2022	1	272
Synthesis of Cs/Methylammonium/Formamidinium PbBr ₃ Perovskite Nanocrystals with Green Emissions: Implications for Display Applications	Mahankudo S.K., School of Chem	Applied Systems Analysis	ACS Applied Nano Materials	2022	9	64
Design and thermophysical characterization of betaine hydrochloride-based deep eutectic solvents as a new platform for CO ₂ capture	Jangir A.K., Department, of Chem	Chemical Sciences	New Journal of Chemistry	2022	10	131
ICP-OES based methodology for determination of critical elements in U3Si2 matrix	Jayabun S., Radiochemistry Divis	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	2	73
A comparative study of dielectric barrier discharge plasma device and plasma jet to generate plasma activated water and post-discharge trapping of reactive species	Rathore V., Atmospheric Plasma	Chemical Sciences	Physics of Plasmas	2022	11	169
Modulating the Midgap States of 3D-2D Hybrid ZnO by Codoping and its Effect on Visible Photocatalysis	Devi H.R., Materials Research Ce	Physical Sciences	Industrial and Engineering Chemistry Research	2022	1	245
Author's Reply to 'MoNuSAC2020: A Multi-Organ Nuclei Segmentation and Classification Challenge'	Verma R., Department of Biome	Medical and Health Sciences	IEEE Transactions on Medical Imaging	2022	1	246
Long-term outcomes of dexamethasone 12 mg versus 6 mg in patients with COVID-19 and severe hypoxaemia	Granholt A., Department of Int	Medical and Health Sciences	Intensive Care Medicine	2022	10	219
Vacuum ultraviolet photoabsorption spectra of an in-situ synthesized peptide precursor: hydroxylamine on a cold astrochemical dust analogue	Thombre R., School of Physical S	Physical Sciences	European Physical Journal D	2022	1	90
Aerobic oxidation of vanillyl alcohol to vanillin catalyzed by air-stable and recyclable copper complex and TEMPO under base-free conditions	Jana N.C., School of Chemical Sc	Chemical Sciences	Green Chemistry	2022	8	205
Investigation of Structural, Morphological and Elastic Properties of Ni-Zn Ferrite Grown with an Oxalate Precursor	Chaudhari N.D., Department of I	Physical Sciences	Journal of Electronic Materials	2022	2	107
Localized gastric mesothelioma with nodal metastasis—an exceptionally rare entity	Kazi M., Department of Surgical	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	0	21
Different manifestations of triaxial shapes of the positive and negative parity bands in Os 187	Nandi S., Variable Energy Cyclotr	Physical Sciences	Physical Review C	2022	1	229
Inclusive α production for the Li 6 + v 51 system	Joshi C., Department of Physics,	Physical Sciences	Physical Review C	2022	2	229
Development of candidate gene-based markers and map-based cloning of a dominant rust resistance gene in cultivated groundnut (Arachis hypogaea L.)	Mondal S., Nuclear Agriculture a	Life Sciences	Gene	2022	1	108
A crystal form of P5MD10Gankyrin with channels accessible to small molecules	Sudharsan M.G.M., Protein Inter	Life Sciences	Current Science	2022	1	136
Charged space debris induced nonlinear magnetosonic waves using inertial magnetohydrodynamics	Acharya S.P., Saha Institute of Ni	Physical Sciences	Advances in Space Research	2022	0	107
Alignment effects in the medium-spin level structure of Se 78	Mandal K., Department of Physic	Physical Sciences	Physical Review C	2022	1	229
BRCA2-DSS1 interaction is dispensable for RAD51 recruitment at replication-induced and meiotic DNA double strand breaks	Mishra A.P., Mouse Cancer Gene	Life Sciences	Nature Communications	2022	2	466
Nuclear transparency of the charged hadrons produced in the electronuclear reaction	Das S., Nuclear Physics Division,	Physical Sciences	Physical Review C	2022	3	229

Wave breaking limit in arbitrary mass ratio warm plasmas	Adak A., Institute for Plasma Res	Physical Sciences	Contributions to Plasma Physics	2022	1	49
Preliminary Design and Analysis of 20 K Helium Cooled MgB ₂ Based Superconducting Current Feeder System for Tokamak Application	Bairagi N., Institute for Plasma Res	Physical Sciences	IEEE Transactions on Applied Superconductivity	2022	4	92
Synthesis of Alginate Nanogels with Polyvalent 3D Transition Metal Cations: Applications in Urease Immobilization	Saxena A., Amity Institute of Bio	Chemical Sciences	Polymers	2022	3	113
Eta plastic correlation to evaluate crack tip opening displacement of pre-cracked small punch test specimen using experimental data	Shikalgar T.D., Homi Bhabha Nat	Engineering Sciences	Fatigue and Fracture of Engineering Materials and Structures	2022	0	94
Probing the Gluonic Structure of the Deuteron with J/ψ Photoproduction in d+Au Ultraperipheral Collisions	Abdallah M.S., American Univers	Physical Sciences	Physical Review Letters	2022	9	674
3D Assembly of CoAl ₂ O ₄ Spinel Nanosheets for Energy Storage	Panda P., School of Chemical Sci	Chemical Sciences	ACS Applied Nano Materials	2022	6	64
Early-onset non-metastatic colon cancers do not portend worse prognosis — implications for adjuvant chemotherapy	Kazi M., Division of Colorectal Su	Medical and Health Sciences	Langenbeck's Archives of Surgery	2022	1	80
Crystallization and phase transitions of C6H6:C6F6 complex under extreme conditions using laser-driven shock	Mohan A., High Pressure and Svr	Physical Sciences	Journal of Applied Physics	2022	1	341
ZrO ₂ -Ag ₂ O nanocomposites encrusted porous polymer monoliths as high-performance visible light photocatalysts for the fast degradation of pharmaceutical pollutants	Jagadeesan D., Department of CI	Chemical Sciences	Photochemical and Photobiological Sciences	2022	2	109
Primary leiomyosarcoma of the penis: A rare penile neoplasm	Goyal N., Senior Resident (Patho)	Medical and Health Sciences	Medical Journal Armed Forces India	2022	1	29
Concurrent Cetuximab-based bioradiotherapy versus Cisplatin-based Chemoradiotherapy in the Definitive Management of Favourable Biology Human Papillomavirus-associated Oropharyngeal Squamous Cell Carcinoma: Systematic Review and Meta-analysis	Swain M., Department of Radiat	Medical and Health Sciences	Clinical Oncology	2022	1	85
Outcomes of COVID-19 and risk factors in patients with cancer	Sengar M., Tata Memorial Cent	Medical and Health Sciences	Nature Cancer	2022	7	44
On Offset Placement of a Compound Droplet in a Channel Flow	Mahato J., Department of Mech	Engineering Sciences	Journal of Fluids Engineering, Transactions of the ASME	2022	3	113
Synthesis and characterization of methyl indium 4,6-dimethyl-2-pyrimidyl selenolates and its utility for indium selenide, CuInSe ₂ nanostructures and indium selenide thin films	Kushwah N., Chemistry Division,	Chemical Sciences	Journal of Materials Research	2022	0	158
Thermal plasma synthesized nano-powders of [LaCe]B ₆ starting from oxide-based precursors and its field electron emission performance	Kamble S.A., Department of Phy	Physical Sciences	Advanced Powder Technology	2022	0	89
Prompt D ₀ , D ₊ , and D ₊ production in Pb–Pb collisions at √sNN = 5.02 TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Journal of High Energy Physics	2022	17	247
A study on effect of heat input on mode of welding, microstructure and mechanical strength in pulsed laser welding of Zr-2.5 wt.%Nb alloy	Bhadrawaj V., Laser Technology	Physical Sciences	Journal of Nuclear Materials	2022	3	157
Tribological study on tempered 13Cr martensitic stainless steel susceptible to interlath/intergranular corrosion under nitric acid sliding conditions	Khare N., Reactor Technology Div	Engineering Sciences	Materials Chemistry and Physics	2022	4	176
tBuOLi-promoted terminal alkyne functionalizations by aliphatic thiols and alcohols	Pramanik M., School of Chemica	Chemical Sciences	Organic and Biomolecular Chemistry	2022	3	180
Failure analysis of electron gun of a 10 MeV RF linac	Dixit K.P., Bhabha Atomic Resear	Engineering Sciences	International Journal of System Assurance Engineering and Manage	2022	0	33
Cross-Sectional and Longitudinal Mental Health Status Prevailing among COVID-19 Patients in Mumbai, India	Singh A., Tata Memorial Centre	Medical and Health Sciences	Indian Journal of Community Medicine	2022	1	41
Giant cell tumor of hyoid bone: Diagnostic dilemma with a novel management	Bihani A., Department of ENT an	Medical and Health Sciences	Journal of Cancer Research and Therapeutics	2022	0	47
Radiotherapy for locally advanced unresectable gallbladder cancer-A way forward: Comparative study of chemotherapy versus chemoradiotherapy	Sinha S., Department of Radiatio	Medical and Health Sciences	Journal of Cancer Research and Therapeutics	2022	0	47
High Na ⁺ conducting Na ₃ Zr ₂ Si ₂ P ₂ O ₁₂ /Na ₂ Si ₂ O ₅ composites as solid electrolytes for Na ⁺ batteries	Santhoshkumar B., School of Ph	Physical Sciences	Journal of the American Ceramic Society	2022	6	212
Concurrent chemoradiation and brachytherapy alone or in combination with nelfinavir in locally advanced cervical cancer (NELCER): study protocol for a phase III trial	Chopra S., Department of Radiat	Life Sciences	BMI Open	2022	2	139
Study on the measurement of high energy neutrons using Zirconium capped CR-39 (Zr-CR-39) combined detector - Monte Carlo simulation and experimental validation	Pal R., Radiological Physics and A	Physical Sciences	Radiation Measurements	2022	0	105
Heat-induced SIRT1-mediated H4K16ac deacetylation impairs resection and SMARCA1 recruitment to double strand breaks	Chakraborty S., Department of R	Life Sciences	iScience	2022	4	61
Study of Chlorophyll and Macro Mutations Induced by Physical Mutagens in Black Gram [Vigna mungo (L.) Hepper]	Anandhi Lavanya S., Departmen	Life Sciences	Legume Research	2022	0	18
Unravelling the coordination approach of Eu(III) in cyphos nitrate ionic liquid - a comprehensive luminescence spectroscopy study	Rout A., Materials Chemistry & M	Chemical Sciences	Dalton Transactions	2022	3	203
Limits of thermalization in relativistic heavy ion collisions	Gupta S., Department of Theore	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	5	275
Performance Study of MEMS Piezoresistive Pressure Sensors at Elevated Temperatures	Belwanshi V., Electronics Divisi	Engineering Sciences	IEEE Sensors Journal	2022	6	145
Determination of double-layer gamma build-up factor using Monte Carlo code, FLUKA: Development of new empirical formula	Das A., Reactor Physics and Nucl	Physical Sciences	Radiation Physics and Chemistry	2022	0	93
Remarkably high capacity Li ion batteries with rf sputter deposited TiO ₂ thin film anodes on SS substrates	Bhasin V., Atomic and Molecular	Chemical Sciences	Applied Surface Science	2022	4	219
Complexation thermodynamics of UO ₂ ²⁺ /diglycolamide complex in a room temperature ionic liquid: A study by optical spectroscopy and microcalorimetry	Ansari S.A., Radiochemistry Divis	Chemical Sciences	Polyhedron	2022	0	106
Influence of Differential Distribution of Piperazine Conformers in Copolyamides on the Formation and Ion Separation Behaviors of Charged Nanofiltration Membranes	Pal A., Membrane Development	Chemical Sciences	ACS Applied Polymer Materials	2022	0	36
Observation of Anisotropic Thermal Expansion and the Jahn-Teller Effect in Double Perovskites Sr _{2-x} La _x CoNb ₆ O ₂₆ Using Neutron Diffraction	Kumar A., Department of Physic	Physical Sciences	Journal of Physical Chemistry Letters	2022	4	235
Unravelling the Phase Behavior of Water Confined in Nanochannels through Positron Annihilation	Zaleski R., Department of Mater	Chemical Sciences	Journal of Physical Chemistry C	2022	2	323
Development and Metabolic Characterization of Horse Gram (Macrotyloma uniflorum Lam. Verdc.) Mutants for Powdery Mildew Resistance	Sudhagar R., Sugarcane Researc	Life Sciences	Agronomy	2022	1	67
Preferred Spin Excitations in the Bilayer Iron-Based Superconductor CaK (Fe _{0.96} Ni _{0.04})As ₄ with Spin-Vortex Crystal Order	Liu C., Beijing National Laborator	Physical Sciences	Physical Review Letters	2022	5	674
Unextendible entangled bases and more nonlocality with less entanglement	Halder S., Harish-Chandra Resear	Physical Sciences	Physical Review A	2022	1	281

Low-frequency wideband timing of InPTA pulsars observed with the uGMRT	Nobleson K., Department of Physics	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	9	357
Collinear order in the spin-52 triangular-lattice antiferromagnet Na ₃ Fe(PO ₄) ₂	Sebastian S.J., School of Physics,	Physical Sciences	Physical Review B	2022	3	484
Negative Linear Compressibility in Organic-Inorganic Hybrid Perovskite [NH ₂ NH ₃](X[HC(OO)] ₃ X = Mn, Fe, Co)	Ghosh P.S., Department of Physics	Physical Sciences	Journal of Physical Chemistry Letters	2022	5	285
FeCoNiMnCr High-Entropy Alloy Nanoparticle-Grafted NCNTs with Promising Performance in the Ohmic Polarization Region of Fuel Cells	Nandan R., Materials Research C	Physical Sciences	ACS Applied Materials and Interfaces	2022	12	284
Turn-Off Detection of Reactive Oxidative Species and Turn-On Detection of Antioxidants Using Fluorescent Copper Nanoclusters	Akhuli A., School Of Chemical Sc	Chemical Sciences	ACS Applied Nano Materials	2022	8	64
Novel Nexus with NFκB, β-catenin, and RB1 empowers PSMD10/gankyrin to counteract TNF-α induced apoptosis establishing its oncogenic role	Mulla S.W., Protein Interactome	Life Sciences	International Journal of Biochemistry and Cell Biology	2022	2	200
Impact of Atomic Rearrangement and Single Atom Stabilization on MoSe ₂ @NiCo ₂ Se ₄ Heterostructure Catalyst for Efficient Overall Water Splitting	Majumdar A., Department of Ph	Physical Sciences	Small	2022	20	276
Benign metastasizing leiomyoma and findings on fluorodeoxyglucose positron emission tomography/contrast-enhanced computed tomography	Gosavi A., Department Of Nucle	Medical and Health Sciences	Indian Journal of Nuclear Medicine	2022	0	16
Magnetic and magnetocaloric effect study of a polycrystalline Gd _{0.55} Fe _{0.5-x} CaxMnO ₃ compound	Chatterjee S., CMP Division, HBN	Physical Sciences	Physical Chemistry Chemical Physics	2022	2	272
Influence of Nitrogen on Grain Size-Dependent Sensitisation and Corrosion Resistance of 316L (N) Austenitic Stainless Steels	Aamani S., Department of Mater	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39
Effect of interface coupling between polarization and magnetization in La _{0.7} Pb _{0.3} MnO ₃ (LPMO)/P(VDF-TrFE) flexible nanocomposite films	Koner S., Laser Biomedical Appli	Physical Sciences	Journal of Materials Science	2022	4	200
The Decisive Role of Spin States and Spin Coupling in Dictating Selective O ₂ Adsorption in Chromium(III) Metal-Organic Frameworks	Jose R., Department of Chemistr	Chemical Sciences	Chemistry (Weinheim an der Bergstrasse, Germany)	2022	0	35
A simple spectrophotometric method for the determination of zirconium in U-Zr alloy samples in presence of fluoride ions	Prathibha T., Materials Chemist	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	1	73
Digital light processing mediated 3D printing of biocomposite bone scaffolds: Physico-chemical interactions and in-vitro biocompatibility	Vyas A., Department of Mechani	Physical Sciences	Polymer Composites	2022	11	94
Proton acceleration in thermonuclear nova explosions revealed by gamma rays	Acciari V.A., Instituto de Astrofis	Physical Sciences	Nature Astronomy	2022	22	71
Method to Eliminate Fluoride Interference in the Spectrophotometric Estimation of Zirconium: Application to U-Zr Alloys	Kumar S., Materials Chemistry a	Chemical Sciences	Applied Spectroscopy	2022	1	119
Role of Respite Palliative Care in Understanding and Managing Complex Palliative Care Situation - A Case Report	Shinde T., Department of Palliat	Medical and Health Sciences	Indian Journal of Palliative Care	2022	0	34
Developing a Screening Tool for Serious Health-related Suffering for Low- and Middle-income Countries - Phase-1: Domain Identification and Item Generation	Vallath N., Division of Palliative C	Medical and Health Sciences	Indian Journal of Palliative Care	2022	1	34
Determination of intensity ratios of Nd, Cs, Zr and Sr against U and burn-up in simulated nuclear fuels by LA-ICPMS	Malty U.K., Homi Bhabha Natio	Chemical Sciences	Journal of Analytical Atomic Spectrometry	2022	1	123
A synergistic electrochemical approach of boron-doped carbon/cobalt pyrophosphate/Mxene for high-performance all solid-state asymmetric devices	Padhy A., National Institute of Sc	Chemical Sciences	Sustainable Energy and Fuels	2022	1	62
A systematic study of uranium in groundwater and its correlation with other water quality parameters	Srivastava M., Department of Ch	Physical Sciences	Water Supply	2022	2	46
Application of unlaminated EB73 film dosimeter for quantification of dose enhancement using silver nanoparticle-embedded alginate film	Kakade N.R., Radiological Physic	Chemical Sciences	Biomedical Physics and Engineering Express	2022	1	25
One-pot hydrothermal preparation and defect-enhanced photocatalytic activity of Bi-doped CdWO ₄ nanostructures	Narsimha K., Nanomaterials & C	Chemical Sciences	Physical Chemistry Chemical Physics	2022	4	272
Dose dependent slurred speech and laryngopharyngeal dysesthesia due to oxaliplatin	Varghese D., Department of Clin	Life Sciences	Journal of Oncology Pharmacy Practice	2022	0	41
Carbon Encapsulated and rGO Wrapped Mo ₂ C: an Anode Material with Enhanced Sodium Storage Capacity	Halankar K.K., Chemistry Divisio	Chemical Sciences	ChemElectroChem	2022	1	77
Preparation of isotopically enriched 112,116,120,124Sn targets at VECC	Pandey R., Variable Energy Cyclo	Physical Sciences	Vacuum	2022	1	95
HeH ⁺ Collisions with H ₂ : Rotationally Inelastic Cross Sections and Rate Coefficients from Quantum Dynamics at Interstellar Temperatures	Giri K., Department of Computat	Chemical Sciences	Journal of Physical Chemistry A	2022	8	250
Multiple low-energy excitons and optical response of d0 double perovskite Ba ₂ SrCaO ₆	Himanshu A.K., Variable Energy C	Physical Sciences	Physica B: Condensed Matter	2022	0	124
Substrate roughness and crystal orientation-controlled growth of ultra-thin BN films deposited on Cu foils	Basu N., School of Physics, Unve	Physical Sciences	Applied Physics A: Materials Science and Processing	2022	2	158
A self-cleaning photocatalytic composite membrane based on g-C ₃ N ₄ @Mxene nanosheets for the removal of dyes and antibiotics from wastewater	Zeng G., State Key Laboratory of	Chemical Sciences	Separation and Purification Technology	2022	34	181
Interaction among bovine serum albumin (BSA) molecules in the presence of anions: a small-angle neutron scattering study	Pandit S., Soft Nano Laboratory,	Physical Sciences	Journal of Biological Physics	2022	1	49
Molecular precursor driven synthesis of phase pure tin sulfide nanosheets and investigation of their photoresponsive behaviour	Karmakar G., Chemistry Division,	Chemical Sciences	Polyhedron	2022	4	106
Insight into morphology dependent charge carrier dynamics in ZnSe-CdS nanoheterostructures	Mittal M., Department of Chemi	Chemical Sciences	Physical Chemistry Chemical Physics	2022	2	272
Experimental estimates of hygroscopic growth of particulate fission product species (mixed CsI-CsOH) with implications in reactor accident safety research	Mariam, Radiological Physics and	Physical Sciences	Progress in Nuclear Energy	2022	0	74
Noble metal sensitized SnO ₂ /RGO nanohybrids as chemiresistive E-nose for H ₂ , H ₂ S and NO ₂ detection	Bhargava B., Technical Physics D	Physical Sciences	Materials Science in Semiconductor Processing	2022	4	77
A beam dynamics study for efficient extraction from the VECC K500 superconducting cyclotron	Paul S., Variable Energy Cyclotro	Physical Sciences	Journal of Instrumentation	2022	0	85
Optical characteristics of Eu ³⁺ doped alumino borophosphate glass containing Al ³⁺ , Zn ²⁺ , Li ²⁺ , Sr ²⁺ and Ba ²⁺ ions	Dhavamurthy M., Department of	Chemical Sciences	Results in Optics	2022	4	9
Effect of ring stiffness and ambient pressure on the dynamical slowdown in ring polymers	Roy P.K., The Institute of Mathe	Physical Sciences	Soft Matter	2022	0	180
Magnetic rare-earth ion mediated 4f-3d interlayer coupling and giant exchange bias in single layered Ruddlesden-Popper perovskites Sr _{1-n} Co _n O _{5-2n} (1 ≤ n ≤ 4)	Das R.R., Low temperature phys	Physical Sciences	Journal of Alloys and Compounds	2022	1	200
Measurements of neutron and photon induced cross sections for the production of medical isotopes of strontium	Ganesapandy T.S., Department o	Physical Sciences	Nuclear Physics A	2022	2	170
Mobility driven thermoelectric and optical properties of two-dimensional halide-based hybrid perovskites: impact of organic cation rotation	Každada H.L., Department of Ba	Physical Sciences	Physical Chemistry Chemical Physics	2022	5	272
[¹⁷⁷ Lu]Lu-DOTA-TATE PRRT in Normal Organs and Tumor Lesions in Patients of Metastatic Neuroendocrine Tumors: Comparison with No-Carrier-Added [¹⁷⁷ Lu]Lu-DOTA-TATE and the Trend with Multiple Cycles	Kamaldeep, Health Physics Divis	Medical and Health Sciences	Cancer Biotherapy and Radiopharmaceuticals	2022	2	66
The reality of cholangiocarcinoma in India—real world data from a tertiary referral centre	Patkar S., Hepatobiliary Division,	Medical and Health Sciences	HPB	2022	0	85
Evaluation of conformational transitions of h-BRCA2 functional domain and unclassified variant Arg2502Cys using multimodal approach	Khan M.A., Advanced Centre for	Life Sciences	International Journal of Biological Macromolecules	2022	2	166
Perioperative health care provider safety and resource availability during the COVID-19 pandemic in India and other low middle-income countries	Ambulkar R., Department of Ana	Medical and Health Sciences	Indian Journal of Anaesthesia	2022	2	39
Role of Nb content in tailoring the microstructure and magnetic anisotropy of soft magnetic W/Cu-Fe alloy thin films prepared with varying the substrate temperature	Gupta N., Synchrotrons Utilizati	Physical Sciences	Journal of Alloys and Compounds	2022	2	200

On Simplified Spherical Harmonics (SPN) and Generalized SPN (GSPN) formulations	Mishra A., Reactor Physics and Nuclear Engineering	Physical Sciences	Annals of Nuclear Energy	2022	0	77
Definitive and adjuvant radiation therapy for external auditory canal and temporal bone squamous cell carcinomas: Long term outcomes	Laskar S.G., Department of Radiotherapy	Medical and Health Sciences	Radiotherapy and Oncology	2022	2	174
Graphene Oxide as an Adsorbent for Ruthenium from Aqueous Solution	Mohanty B.N., Health Industrial Engineering	Chemical Sciences	Chemistry Select	2022	1	51
New Signatures of Bio-Molecular Complexity in the Hypervelocity Impact Ejecta of Icy Moon Analogues	Singh S.V., Physical Research Laboratory	Physical Sciences	Life	2022	3	46
Palladium telluride within nuclear waste containing borosilicate glass	Chakrabarti C.K., FRWMD, Bhabha Atomic Research Centre	Engineering Sciences	Progress in Nuclear Energy	2022	0	74
Knowledge, Attitudes and Practices Towards COVID-19: A Cross-Sectional Survey	Poddar P., Gynecologic Oncology	Medical and Health Sciences	Indian Journal of Gynecologic Oncology	2022	3	5
Role of Curcumin in Reducing Toxicities Associated With Mucosal Injury Following Melphalan-Based Conditioning in Autologous Transplant Setting	Punatar S., Bone Marrow Transplantation	Life Sciences	Cell Transplantation	2022	2	110
Accuracy of Estimated Continuous Cardiac Output Monitoring Using Pulse Wave Transit Time Compared to Arterial Pressure-based CO Measurement during Major Surgeries	Joshi M.P., Department of Anaesthesiology	Medical and Health Sciences	Indian Journal of Critical Care Medicine	2022	0	37
CoFeVSe: A promising candidate for spin valve and thermoelectric applications	Nag J., Department of Physics, Indian Institute of Technology	Physical Sciences	Physical Review B	2022	12	481
Structural evolution and K mixing in V 49	Sapkota Y., Indian Institute of Technology	Physical Sciences	Physical Review C	2022	0	229
IrO2 modified Crystalline-PdO nanowires based bi-functional electro-catalyst for HOR/HER in acid and base	Samanta R., School of Chemical Engineering	Chemical Sciences	Renewable Energy	2022	4	232
Study of histopathology reports of loop electro-surgical excision procedure of cervical transformation zone and their correlation with preprocedural cervical biopsy and/or cytology: An audit	Deodhar K.K., Department of Pathology	Medical and Health Sciences	Indian Journal of Pathology and Microbiology	2022	0	33
Feasibility of therapeutic drug monitoring of sunitinib and its implications on response and toxicity in patients with metastatic renal cell cancer	Gandhi K.A., Department of Clinical Oncology	Life Sciences	Cancer Chemotherapy and Pharmacology	2022	2	118
Irradiation behaviour of alloy D9 clad and wrapper in FBTR	Karthik V., Indira Gandhi Centre for Atomic Research	Mathematical Sciences	Journal of Nuclear Materials	2022	1	157
Application of artificial neural networks for predicting the isotopic composition of high burn-up solid plutonium sample using the 90-105 keV gamma-spectrum region	Sarkar A., Fuel Chemistry Division	Chemical Sciences	Radiochimica Acta	2022	0	71
Pulmonary inflammatory myofibroblastic tumor coexisting with lymphangitis carcinomatosa: Mimicking metastatic papillary thyroid carcinoma with nodular fasciitis-like stroma	Yadav S.C., Department of Surgical Pathology	Medical and Health Sciences	Indian Journal of Pathology and Microbiology	2022	0	33
Kilo-scale synthesis and purification of 4,4'-[di-(4-butylidibenzoyl)-18-crown-6 and its catalytic reduction to 4,4'-[di-(4-butylidicyclohexano)-18-crown-6	Dutta S., Chemical Engineering Division	Life Sciences	Reaction Chemistry and Engineering	2022	0	44
Months and Severity Score (MOSES) in a Phase III trial (PARCER): A new comprehensive method for reporting adverse events in oncology clinical trials	Ranjana N., Department of Radiation Oncology	Medical and Health Sciences	eClinicalMedicine	2022	2	63
Interaction of silver nano-clusters with ceria thin-films: An in situ temperature dependent x-ray photoelectron spectroscopy study	Paul M., Saha Institute of Nuclear Physics	Physical Sciences	Journal of Alloys and Compounds	2022	2	200
Predictors of toxicity after neoadjuvant chemoradiotherapy for locally advanced gall bladder cancer	Loyal A., Department of Radiation Oncology	Medical and Health Sciences	Indian Journal of Cancer	2022	1	42
Phase evolution and conductivity study of doped gadolinium-based perovskite oxides	Sinha A., Powder Metallurgy Division	Engineering Sciences	Bulletin of Materials Science	2022	1	81
Assessment of regional diagnostic reference levels in dental radiography in Tamil Nadu	Jose A., Department of Medical Radiology	Medical and Health Sciences	Journal of Medical Physics	2022	1	29
Magnetic and electrical transport studies of polycrystalline Sr1-xBixFe12O19 (x = 0, 0.01, and 0.02)	Sahoo M.R., Department of Physics	Mathematical Sciences	Journal of Physics D: Applied Physics	2022	2	230
A complete 3D map of Bell Glasstone spatial correction factors for BRAHMMA subcritical core	Shukla S., Homi Bhabha National Centre	Physical Sciences	Nuclear Engineering and Technology	2022	0	51
Modifications in surfactant-dependent phase behavior of colloidal nanoparticles under charge reversal	Ray D., Solid State Physics Division	Physical Sciences	Chemical Physics Letters	2022	1	248
Study of shape evolution of nuclei with 40 ≤ Z ≤ 48 and 50 < N < 60	Nayak S.S., Variable Energy Cyclotron Centre	Physical Sciences	Nuclear Physics A	2022	1	170
Local preservation of no-signaling in multipartite PT-symmetric evolutions	Kumari A., Harish-Chandra Research Institute	Physical Sciences	Journal of Physics A: Mathematical and Theoretical	2022	0	160
The DESPEC setup for GSI and FAIR	Mistry A.K., Institut für Kernphysik	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A	2022	9	176
A pilot multicentre cluster randomised trial to compare the effect of trauma life support training programmes on patient and provider outcomes	Gerdin Wärmberg M., Department of Trauma and Orthopaedics	Medical and Health Sciences	BMJ Open	2022	1	119
Gamow factors and current densities in cold field emission theory: A comparative study	Biswas D., Bhabha Atomic Research Centre	Physical Sciences	Journal of Applied Physics	2022	2	341
Observation of local vibrational modes in N-doped 6H-SiC	Patankar M.K., Real Time System	Physical Sciences	Indian Journal of Physics	2022	0	38
Electrochemical and AC Conductivity Studies of PVA based Gel Polymer Electrolytes for Silver Ion Batteries	Parthiban V., Department of Physics	Chemical Sciences	Asian Journal of Chemistry	2022	0	39
The determinants of donor safety and product quality in optimization of apheresis granulocyte harvest: An experience from a tertiary care oncology centre in India	Ojha S., Department of Transfusion Medicine	Medical and Health Sciences	Transfusion and Apheresis Science	2022	0	62
Randomized Controlled Trials in Lung, Gastrointestinal, and Breast Cancers: An Overview of Global Research Activity	Connor Wells J., Division of Cancer Treatment and Control	Medical and Health Sciences	Current Oncology	2022	0	63
Interaction of nanoparticles with non-spherical micelles and bilayers	Singh H., Solid State Physics Division	Physical Sciences	Journal of Applied Physics	2022	2	341
Investigation of structural, magnetic and electronic properties of CoMnSb superstructure: A DFT study	Baral M., Synchrotrons Utilization	Physical Sciences	Computational Materials Science	2022	1	135
Flags, landscapes and signaling: contact-mediated inter-cellular interactions enable plasticity in fate determination driven by positional information	Kuyumudi C., The Institute of Materials Research and Technology	Physical Sciences	Indian Journal of Physics	2022	0	38
Application of response surface methodology with central composite design to evaluate the extraction of U(VI) into ionic liquids	Kumar P., Department of Chemical Engineering	Engineering Sciences	Materials Today: Proceedings	2022	1	56
Priorities for cancer research in low- and middle-income countries: a global perspective	Pramesh C.S., Tata Memorial Centre	Medical and Health Sciences	Nature Medicine	2022	35	695
Magnetoelastic anisotropy in Heusler-type Mn2-δCoGa1+δ films	Kubota T., Institute For Materials and Chemical Process	Physical Sciences	Physical Review Materials	2022	1	59
The Role of Hot Deformation Texture on Dynamic Transformation of Austenite to Ferrite in a 9%Cr Alloy Steel	Aashranth B., Metallurgy and Materials Engineering	Engineering Sciences	JOM	2022	1	127
Highly stable spherical shaped and blue photoluminescent cyclodextrin-coated tellurium nanocomposites prepared by in situ generated solvated electrons: a rapid green method and mechanistic and anticancer studies	Guleria A., Radiation & Photochemistry	Chemical Sciences	Dalton Transactions	2022	1	203
Interacting fermions in two dimension in simultaneous presence of disorder and magnetic field	Mandal S., Institute of Physics, Kolkata	Physical Sciences	Journal of Physics Condensed Matter	2022	0	244
Robust electronic and tunable magnetic states in Sm2NiMnO6ferromagnetic insulator	Majumder S., UGC DAE Consortia	Physical Sciences	Journal of Physics Condensed Matter	2022	1	244
Influence of magnetic field on the growth, development and rhizome yield of turmeric (Curcuma longa L.)	Kamble S.N., Plant Biotechnology	Engineering Sciences	Plant Cell, Tissue and Organ Culture	2022	1	92
Determination of soil porosity by a simple and novel technique of fusing thoron diffusion experiment and modeling	Chitra N., Environmental Assessment	Physical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	1	73

Very-High-Energy Collective States of Partons in Fractional Quantum Hall Liquids	Balram A.C., Institute of Mathem	Physical Sciences	Physical Review X	2022	10	168
Critical points of Eisenstein series	Gun S., The Institute of Mathem	Mathematical Sciences	Mathematika	2022	0	28
Hierarchies of localizable entanglement due to spatial distribution of local noise	Banerjee R., Harish-Chandra Res	Physical Sciences	Physical Review Research	2022	3	53
Data driven discovery of a model equation for anode-glow oscillations in a low pressure plasma discharge	Thakur B., Institute for Plasma R	Physical Sciences	Physics of Plasmas	2022	1	169
Relaxation Dynamics in the Energy Landscape of Glass-Forming Liquids	Nishikawa Y., Laboratoire Charle	Physical Sciences	Physical Review X	2022	13	168
Design, development, and instrumentation of isopiestic experimental setup	Kumar S.S., Materials Chemistry	Engineering Sciences	Review of Scientific Instruments	2022	1	174
Plasma asymmetry and electron and ion energy distribution function in capacitive discharges excited by tailored waveforms	Sharma S., Basic Theory and Sim	Physical Sciences	Journal of Physics D: Applied Physics	2022	5	226
Nonmonotonic Magnetic Field Dependence of Remnant Ferroelectric Polarization in Reduced Graphene Oxide-BiFeO ₃ Nanocomposite	Chatterjee T., Advanced Materia	Physical Sciences	Physica Status Solidi - Rapid Research Letters	2022	2	76
A Novel Methodology of Using Nonsolvent in Achieving Ultraclean Transferred Monolayer MoS ₂	Bhuyan C.A., Surface and Nanos	Chemical Sciences	Advanced Materials Interfaces	2022	2	91
Search for exotic leptons in final states with two or three leptons and fat-jets at 13 TeV LHC	Ashanuujaman S., Institute of Ph	Physical Sciences	Journal of High Energy Physics	2022	7	247
RG flows and thermofield-double states in holography	Das S., Theory Division, Saha Inst	Physical Sciences	Journal of High Energy Physics	2022	3	247
Thickness dependent structural and magnetic properties investigation of Co film interfaced with HF	Jafri Y., Amity Center for Spintro	Physical Sciences	Materials Today: Proceedings	2022	0	56
Hydrolysis of tri-butyl phosphate in n-dodecane using sodium hydroxide: Factors affecting the hydrolysis process	P.V.A., Reprocessing R&D Divisio	Chemical Sciences	Progress in Nuclear Energy	2022	0	74
Addition of arm anthropometry to body mass index for age, but not serum albumin, improves the accuracy of the nutritional assessment in severely and moderately malnourished children with cancer	Prasad M., Paediatric Oncology,	Medical and Health Sciences	Pediatric Blood and Cancer	2022	1	130
Both heat-sensitive TRPV4 and cold-sensitive TRPM8 ion channels regulate microglial activity	Chakraborty R., School of Biolog	Life Sciences	Biochemical and Biophysical Research Communications	2022	7	262
Impact of a pediatric oncology nutrition program: Lessons learnt over a decade	Prasad M., Division of Paediatric	Medical and Health Sciences	Pediatric Blood and Cancer	2022	2	130
Dynamical construction of quadrupolar and octupolar topological superconductors	Ghosh A.K., Institute of Physics,	Physical Sciences	Physical Review B	2022	12	485
Evidence of rutile to anatase phase transition of TiO ₂ thin film electrode during 1st discharging cycle of Li ion batteries	Bhasin V., Atomic and Molecu	Chemical Sciences	Journal of Alloys and Compounds	2022	2	208
Elastic and phonon-mode anomalies with temperature in the energetic material C6 H6 N4 O8	Chakraborty S., Materials Scienc	Physical Sciences	Physical Review B	2022	0	481
One-step synthesis of tin oxide nanoparticles in aqueous solution induced by free radicals	Keny S.J., Radiation & Photoche	Chemical Sciences	Materials Chemistry and Physics	2022	1	170
Influence of the Halide Ion on the A-Site Dynamics in FAPb X ₃ (X = Br and Cl)	Sharma V.K., Solid State Physics	Physical Sciences	Journal of Physical Chemistry C	2022	2	323
Cytochrome C interacts with the pathogenic mutational hotspot region of TRPV4 and forms complexes that differ in mutation and metal ion-sensitive manner	Das R., School of Biological Scien	Physical Sciences	Biochemical and Biophysical Research Communications	2022	4	282
A first-principles investigation of pressure induced topological phase transitions in half-Heusler Ag ₅ SBi	Dhori B.R., Department of Physic	Physical Sciences	Materials Advances	2022	3	28
Pyridone Directed Ru-Catalyzed Olefination of sp ² (C-H) Bond Using Michael Acceptors: Creation of Drug Analogues	Mohanty S.R., School Of Chemi	Chemical Sciences	Journal of Organic Chemistry	2022	3	326
Investigation on the Use of the Monte Carlo Iterative k-Source Scheme for the Study of Neutron Subcritical Multiplication	Mallick A.K., Bhabha Atomic Res	Physical Sciences	Nuclear Science and Engineering	2022	2	60
On the delayed emission from a laser-produced aluminum plasma under an argon environment	Arora G., Institute for Plasma Re	Physical Sciences	Journal of Analytical Atomic Spectrometry	2022	3	133
Segregation and intermixing in polydisperse liquid-solid fluidized beds: A multifluid model validation study	Tiwari S.S., Department of Chem	Engineering Sciences	AIChE Journal	2022	1	182
The use of Hypotension Prediction Index in cytoreductive surgery (CRS) with hyperthermic intraperitoneal chemotherapy (HIPEC)	Gangakhedkar G.R., Department	Medical and Health Sciences	Indian Journal of Anaesthesia	2022	0	39
On the Universality and Extremality of Graphs with a Distance Constrained Colouring	Majumder K., School of Mathem	Mathematical Sciences	Annals of Combinatorics	2022	0	25
Technical and clinical success rates of Wallflex duodenal stents in unresectable malignant gastric outlet obstruction: A retrospective observational study from a tertiary cancer hospital in India	Raina H., Department of Gastro	Medical and Health Sciences	Przeegląd Gastroenterologiczny	2022	2	23
Magnetization Reversal and Domain Structures in Perpendicular Synthetic Antiferromagnets Prepared on Rigid and Flexible Substrates	Mohanty S., Laboratory for Nanc	Physical Sciences	JOM	2022	2	127
Ultrasound guided estimation of gastric residual volume using Perlas's formula: A validation study in patients	Khandekar S.S., Department of M	Medical and Health Sciences	Indian Journal of Anaesthesia	2022	1	39
Determination of (n,2n) reaction cross-section for 154Sm, 150Nd and 82Se at 14.6 MeV neutron energy	Tawade N.S., Radiochemistry Div	Physical Sciences	European Physical Journal A	2022	0	105
Presentation of cardiogenic shock with pulmonary hypertension and arrhythmia secondary to foramen magnum stenosis in a patient with achondroplasia	Gavala J., Department of Cardiac	Medical and Health Sciences	Journal of Paediatrics and Child Health	2022	0	80
Correlating confinement to topological fluctuations near the crossover transition in QCD	Larsen R.N., University of Stavan	Physical Sciences	Physical Review D	2022	1	378
Efficient and selective adsorption of UV(1) by succinic acid modified iron oxide adsorbent	Amesh P., Reprocessing Researc	Chemical Sciences	Radiochimica Acta	2022	1	71
Effect of electrode separation and electrode backscatter thickness of a parallel plate ionization chamber on the measurement of dose to tissue in beta radiation fields	Rakshit S., Radiation Safety Syst	Physical Sciences	Applied Radiation and Isotopes	2022	0	85
Investigation of the Nature of Intermolecular Interactions in Tetra(thiocyanato)corrolato-Ag(II) Complexes: Agostic or Hydrogen Bonded?	Sahu K., School of Chemical Sci	Chemical Sciences	Inorganic Chemistry	2022	3	240
Manipulation of Antiskyrmion Phase in Mn ₂ xNi _{1-x} Ga Tetragonal Heusler System	Sen S., School of Physical Scienc	Physical Sciences	Physical Review Applied	2022	0	88
De Novo Transcriptome Assembly and Identification of Brassinosteroid Biosynthetic Pathway in <i>Safflower</i>	Prasad B.D., Department of Mole	Life Sciences	Journal of Plant Growth Regulation	2022	3	87
Regioselective C-N Coupling of Quinazolines Controlled by the Dipole Moments of Tautomers	Bera S.K., School of Chemical Sci	Chemical Sciences	Organic Letters	2022	5	252
Phase Transitions of BiVO ₄ under High Pressure and High Temperature	Sánchez-Martin J., Departament	Chemical Sciences	Journal of Physical Chemistry C	2022	5	323
Insignificance of the anomalous magnetic moment of the quarks in presence of chiral imbalance	Chaudhuri N., Variable Energy Co	Physical Sciences	European Physical Journal A	2022	1	105
Fabrication of Alkaline Electrolyzer Using Ni@MWCNT as an Effective Electrocatalyst and Composite Anion Exchange Membrane	Bora D.K., Electro Membrane Pri	Chemical Sciences	ACS Omega	2022	1	77
Analysis for the use of thorium based fuel in LWRs	Rai D., Bhabha Atomic Research	Physical Sciences	Annals of Nuclear Energy	2022	3	77
Effect of GNE Mutations on Cytoskeletal Network Proteins: Potential Gateway to Understand Pathomechanism of GNEM	Yadav R., School of Biotechnolog	Life Sciences	NeuroMolecular Medicine	2022	3	79

Realization of diamond nucleation within the multi-walled carbon nanotubes matrix upon electron irradiation	Reddy S.S., UGC-DAE Consortium	Physical Sciences	Carbon Letters	2022	1	24
Structural Parameterizations with Modulator Oblivion	Jacob A., The Institute of Mathe	Mathematical Sciences	Algorithmica	2022	1	78
First-principles study of magnetic properties of the cobalt doped silver copper sulfide	Moshat S., Variable Energy Cyclo	Physical Sciences	Computational Condensed Matter	2022	2	22
A detailed investigation of N95 respirator sterilization with dry heat, hydrogen peroxide, and ionizing radiation	Kumar A., Radiological and Envir	Physical Sciences	Journal of Industrial Textiles	2022	2	49
Novel Study of Strain-Induced Piezoelectricity in VO ₂	Basu R., Surface and Nanoscienc	Physical Sciences	ACS Omega	2022	0	77
Keto-enol tautomerism of hydroxynaphthoquinoneoxime ligands: Copper complexes and topoisomerase inhibition activity	Shinde Y., Department of Chemi	Life Sciences	Journal of Molecular Structure	2022	2	117
Preparation and characterization of cobalt-60 glass microspheres for radioactive particle tracking applications	Biswal J., Isotope and Radiation J	Chemical Sciences	Applied Radiation and Isotopes	2022	0	85
Progress and challenges in layered two-dimensional hybrid perovskites	Mohanty P.P., Department of Ph	Physical Sciences	Nanotechnology	2022	7	220
Astrophysical reaction rates with realistic nuclear level densities	Sangeeta, Department of Applie	Physical Sciences	Physical Review C	2022	2	229
Phase Variation of Ultrathin WO ₃ Electron-Transport Layer Prepared by Scalable Langmuir-Blodgett Technique to Boost Efficiency of Dye Sensitized Solar Cells	Saxena V., Technical Physics Divi	Physical Sciences	Solar RRL	2022	2	63
Differential measurements of jet substructure and partonic energy loss in Au + Au collisions at sNN =200 GeV	Abdallah M.S., American Univers	Physical Sciences	Physical Review C	2022	9	229
Cross-section measurement of the Cd 114 (p,γ) in 115m reaction for nuclear reactor and astrophysical applications	Vashi V., Physics Department, Fa	Physical Sciences	Physical Review C	2022	2	229
High performance asymmetric supercapacitors based on Ti3C ₂ Tx MXene and electrodeposited spinel NiCo ₂ S ₄ nanostructures	Pathak M., Centre for Nano and	Physical Sciences	RSC Advances	2022	3	189
Observation of a multiplicity dependence in the pT-differential charm baryon-to-meson ratios in proton–proton collisions at s=13 TeV	Acharya S., Variable Energy Cyclo	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	8	275
Investigating the structural, vibrational, optical, and dielectric properties in Mg-substituted LaAlO ₃	Gupta M., Material Research Lab	Physical Sciences	Journal of Materials Science: Materials in Electronics	2022	5	88
DIII-D research advancing the physics basis for optimizing the tokamak approach to fusion energy	Fenstermacher M.E., Lawrence U	Physical Sciences	Nuclear Fusion	2022	8	132
Reaction mechanism study for multinucleon transfer processes in collisions of spherical and deformed nuclei at energies near and above the Coulomb barrier: The O 16 + Sm 154 reaction	Roy B.J., Nuclear Physics Division	Physical Sciences	Physical Review C	2022	2	229
Twin interaction with $\Sigma 11$ tilt grain boundaries in BCC Fe: Formation of new grain boundaries	Sainath G., Materials Developme	Engineering Sciences	Computational Materials Science	2022	1	118
Equivalence trials	Ranganathan P., Department of	Medical and Health Sciences	Perspectives in Clinical Research	2022	0	16
Investigating the role of strangeness in baryon–antibaryon annihilation at the LHC	Acharya S., Variable Energy Cyclo	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	7	275
FDG PET/CT in Metastatic Spindle Cell Sarcoma of Penile Origin: A Rare Malignancy	Kale S.A., From the Department	Medical and Health Sciences	Clinical nuclear medicine	2022	0	64
Experimental investigation of high-spin states in Zr 90	Dev P., Department of Nuclear a	Physical Sciences	Physical Review C	2022	2	229
Experimental and theoretical investigations of a multivalued carbon nanotubes/SnO ₂ /polyaniline ternary nanohybrid electrode for energy storage	Kandasamy M., Nonlinear Optics	Physical Sciences	Surfaces and Interfaces	2022	6	49
Adsorption and activation of CO ₂ on a Au19Pt subnanometer cluster in aqueous environment	Mondal K., Department of Physic	Physical Sciences	Computational and Theoretical Chemistry	2022	2	96
Hydrophobic to superhydrophobic and hydrophilic transitions of Ar plasma-nanostructured PTFE surfaces	Pachhijar V., Plasma Surface En	Physical Sciences	Plasma Processes and Polymers	2022	4	83
Length effect on the plastic deformation of SiO ₂ microcantilevers	Balasubramanian S., Surface and	Physical Sciences	Materials Science in Semiconductor Processing	2022	0	77
Parotid fistula and/or salivary collection: an underrecognized and underreported preventable complication following surgery for oral cancer	Gurukeerthi B., Department of H	Medical and Health Sciences	Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology	2022	0	133
Transopercular Approach to Resection of Dominant Hemisphere Diffuse Insular Glioma Using Multimodal Intraoperative Strategy with Awake Mapping	Pathyil R.K., Department of Sur	Medical and Health Sciences	Neurology India	2022	0	53
Fluorescent Cu ²⁺ sensor based on phenanthroline-BODIPY conjugate: A mechanistic study	Goral S., Bio-Organic Division, Bh	Chemical Sciences	Dyes and Pigments	2022	6	137
Study of isotope effect on dehydrogenation kinetics of Pd based alloys using differential scanning calorimetry	Sharma A., Product Developmen	Chemical Sciences	International Journal of Hydrogen Energy	2022	3	248
Phonon-mediated high-voltage detector with background rejection for low-mass dark matter and reactor coherent neutrino scattering experiments	Neog H., Department of Physics	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A: A	2022	2	176
Revisiting type-II see-saw: present limits and future prospects at LHC	Ashanjaman S., Institute of Ph	Physical Sciences	Journal of High Energy Physics	2022	19	247
Purification, characterization and functional site prediction of the vaccinia-related kinase 2A small transmembrane domain	Puja R., Integrated Biophysics an	Life Sciences	MethodsX	2022	0	38
Energy dispersive X-ray fluorescence determination of uranium in different uranates using Rh K α scattered peaks for matrix correction	Kumar S.S., Fuel Chemistry Divisi	Chemical Sciences	Spectrochimica Acta - Part B Atomic Spectroscopy	2022	2	124
Chemistry conditions and corrosion behaviour in simulated crevices of alloy steel	Puspalata R., Water and Steam C	Chemical Sciences	Corrosion Engineering Science and Technology	2022	1	46
Design and development of dielectric barrier discharge setup to form plasma-activated water and optimization of process parameters	Rathore V., Atmospheric Plasma	Chemical Sciences	European Physical Journal D	2022	6	90
Dopant-Free, Blue-Light-Emitting, Hydrophobic Deep Eutectic Solvent and Its Application as a Liquid Scintillator	Patil S.M., Fuel Chemistry Divisi	Chemical Sciences	ACS Applied Electronic Materials	2022	3	36
An insight on deformation of pressurized heavy water reactor coolant channel at extreme temperature in an oxidizing environment	Singh A.R., AVTAR (Aerodynamic	Engineering Sciences	Energy Sources, Part A: Recovery, Utilization and Environmental Eff	2022	2	60
A Note on the Fusion Product Decomposition of Demazure Modules	Venkatesh R., Department of Ma	Mathematical Sciences	Journal of Lie Theory	2022	1	26
Impurity Behavior in High Performance ADITYA Tokamak Plasmas	Chowdhuri M.B., Institute for Pl	Engineering Sciences	Plasma and Fusion Research	2022	0	21
Density functional theoretical analysis of micro-adsorption of isotopes of hydrogen molecule and atom by uranium	Boda A., Chemical Engineering D	Chemical Sciences	International Journal of Hydrogen Energy	2022	1	248
Composition triggered Aggregation/Solubilization behaviour of mixed counter charged gemini Surfactants: A Multi-technique investigations	Patel B., Applied Chemistry Deps	Physical Sciences	Journal of Molecular Liquids	2022	2	150
Nanoarchitectonics with electrochemical additive manufacturing process for printing the reduced graphene oxide	Chauhan V., Institute for Excelle	Physical Sciences	Applied Physics A: Materials Science and Processing	2022	3	158
Studies on passively Q-switched ytterbium doped all-fiber laser using fiber optic ring resonator	Gupta P.K., Laser Technology Div	Physical Sciences	Journal of Optics (United Kingdom)	2022	1	101
Gold-BODIPY Nanoparticles with Luminescence and Photosensitization Properties for Photodynamic Therapy and Cell Imaging	Rahman A., Institute of Nano Sci	Chemical Sciences	ACS Applied Nano Materials	2022	4	64
Bismuth Telluride based efficient thermoelectric power generator with electrically conductive interfaces for harvesting low-temperature heat	Bhatt R., Technical Physics Divisi	Chemical Sciences	Journal of Science: Advanced Materials and Devices	2022	3	31

Two-component scalar and fermionic dark matter candidates in a generic U(1)X model	Das A., Institute for the Advance	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	9	275
Cost Effectiveness of Ribociclib and Palbociclib in the Second-Line Treatment of Hormone Receptor-Positive, HER2-Negative Metastatic Breast Cancer in Post-Menopausal Indian Women	Gupta N., Department of Radiat	Medical and Health Sciences	Applied Health Economics and Health Policy	2022	1	49
Stress Corrosion Cracking Susceptibility of 316LN Grade Stainless Steel Weld Joint in Boiling Magnesium Chloride Hexahydrate Environment	Rajasekaran R., Department of M	Engineering Sciences	Metals and Materials International	2022	0	52
Role of oxygen partial pressure of synthesis environment in tuning the dielectric properties of Nd ₂ CuTiO ₆	Kumar N., UGC-DAE Consortium	Chemical Sciences	Materials Chemistry and Physics	2022	4	130
Absolute compatibility and poincaré sphere	Karn A.K., School of Mathematic	Mathematical Sciences	Annals of Functional Analysis	2022	0	19
Polarization of A and ^Λ Hyperons along the Beam Direction in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Physical Review Letters	2022	9	674
Neutron diffraction study and temperature variation of magnetic anisotropy in Bi substituted nickel ferrite	Bhanu V., Department of Physic	Physical Sciences	Ceramics International	2022	3	146
Site-specific preparation of plan-view samples with large field of view for atomic resolution STEM and TEM studies of rapidly solidified multi-phase Al-Cu thin films	Vishwanadh B., Department of M	Engineering Sciences	Materials Characterization	2022	0	114
Suppressing disorder-order phase transition of Gd ₂ Zr ₂ O ₇ pyrochlore by Dy ³⁺ doping and their impact on luminescence	Gupta S.K., Radiochemistry Divis	Chemical Sciences	Materials Today Chemistry	2022	3	48
Systematic study for the surface properties of neutron stars	Kumar A., Institute of Physics, S	Physical Sciences	Physical Review C	2022	0	229
Hot dip aluminization of 304L SS and P91 ferritic-martensitic steel – Comparison of interface morphology and growth kinetics of reaction zones	Prasanthi T.N., Physical Metallur	Engineering Sciences	Surface and Coatings Technology	2022	2	190
Imprint of the temporal envelope of ultra-short laser pulses on the longitudinal momentum spectrum of e ⁺ e ⁻ pairs	Banerjee C., Theory and Simulat	Physical Sciences	Physical Review D	2022	0	378
Unusual solubilization capacity of hydrophobic drug olanzapine in polysorbate micelles for improved sustained drug release	Singla P., School of Engineering,	Physical Sciences	Journal of Molecular Liquids	2022	4	150
Nano Ni _{1-x} Co _x O system: Composition dependent phase evolution and electrochemical behaviour	Banerjee S., Chemistry Division,	Chemical Sciences	Materials Chemistry and Physics	2022	1	170
ClalD: A Rapid Method of Clade-Level Identification of the Multidrug Resistant Human Fungal Pathogen Candida auris	Narayanan A., Molecular Mycolo	Life Sciences	Microbiology Spectrum	2022	4	76
C-H Hydroxylation of Quinoxalin-2(1H)-ones through Ipso-Substitution Using tert-Butyl Nitrite	Sau S., School of Chemical Scien	Chemical Sciences	European Journal of Organic Chemistry	2022	2	167
MoS ₂ /SnO ₂ heterojunction-based self-powered photodetector	Augustine P., Materials Research	Physical Sciences	Applied Physics Letters	2022	4	466
Machine learning assisted hierarchical filtering: a strategy for designing magnets with large moment and anisotropy energy	Dutta A., Harish-Chandra Resear	Physical Sciences	Journal of Materials Chemistry C	2022	1	166
Patient satisfaction with anaesthesia services in a tertiary care cancer centre. (SAY study)	Ambulkar R., Department of Ana	Medical and Health Sciences	Journal of Anaesthesiology Clinical Pharmacology	2022	0	38
Supported Rh ₂ O ₃ sub-nanometer size particles for the direct amination of ethylene with piperidine	Sengupta M., Nano Catalysis, Lig	Physical Sciences	Catalysis Science and Technology	2022	0	136
Synthesis, Photophysical, Electrochemical, and Non-linear Optical Properties of Triaryl Pyrazole-based B-N Coordinated Boron Compounds	Mukundam V., School of Chemi	Chemical Sciences	Chemistry - An Asian Journal	2022	1	119
Tailoring defect structure and dopant composition and the generation of various color characteristics in Eu ³⁺ and Tb ³⁺ doped MgF ₂ phosphors	Mukherjee S., Fuel Chemistry Div	Engineering Sciences	Physical Chemistry Chemical Physics	2022	1	272
Synthesis and magneto-structural properties of chitosan coated ultrathin cobalt ferrite nanoparticles for magnetic fluid hyperthermia in viscous medium	Anila I., Mössbauer Research Gr	Physical Sciences	Ceramics International	2022	4	146
Supramolecular modulation in photophysical features of berberine and its application towards ATP sensing	Chakraborty G., Laser and Plasm	Chemical Sciences	Journal of Molecular Liquids	2022	4	150
Molecular dynamics and network analysis reveal the contrasting roles of polar solutes within organic phase amphiphilic aggregation	Sadhu B., Department of Chemis	Chemical Sciences	Journal of Molecular Liquids	2022	3	150
Oxygen annealing induced enhancement in output characteristics of ZnO based flexible piezoelectric nanogenerators	Mahapatra A., Laser Material Pro	Physical Sciences	Journal of Alloys and Compounds	2022	9	200
Intrachromosomal amplification of BCR expressed as homogeneously staining region (hsr) in a case of acute myeloid leukemia with myelodysplasia-related changes	Mohanty P., Department of Can	Medical and Health Sciences	International Journal of Laboratory Hematology	2022	0	63
Gelatin-lectin-F127 gel mediated self-assembly of curcumin vesicles for enhanced wound healing	Das R.P., Radiation & Photoche	Chemical Sciences	International Journal of Biological Macromolecules	2022	5	166
Management of pancreatic trauma in urban India: A multicenter study	Bavishi D., Seth GS Medical Colle	Medical and Health Sciences	Annals of Medicine and Surgery	2022	0	30
Efficient separation of strontium ions from aqueous solution by dibenzo-18-crown-6 functionalized resin: Static and dynamic adsorption studies with computational DFT insights	Deb A.K.S., Chemical Engineeri	Chemical Sciences	Chemical Engineering Journal Advances	2022	3	19
Theory abide experimental investigations on morphology driven enhancement of electrochemical energy storage performance for manganese titanate perovskites electrodes	Kitchamsetti N., Department of I	Physical Sciences	Journal of Power Sources	2022	13	339
Effect of Cr co-doping on the optical absorption and emission characteristics of Yb:YVO ₄ single crystals grown by OFZ technique	Sohrab M., Crystal Growth and	Physical Sciences	Optical Materials	2022	0	113
Systematic study of the (n, 2 n) reaction cross section for ¹²¹ Sb and ¹²³ Sb isotopes	Singh R.K., Department Of Physic	Physical Sciences	Chinese Physics C	2022	4	46
Constructing micropore-rich nitrogen-doped carbon for high-performance supercapacitor and adsorption of carbon dioxide	Sahu P., School of Chemical Scie	Chemical Sciences	International Journal of Energy Research	2022	2	130
Thiourea mediated ROS-metabolites reprogramming restores root system architecture under arsenic stress in rice	Ghate T., Nuclear Agriculture an	Life Sciences	Journal of Hazardous Materials	2022	8	329
A study of Cr ³⁺ -substitution induced defects restructuring in BiFeO ₃ by positron annihilation and other supportive methods	Cyriac J., Department of Physics,	Physical Sciences	Physica E: Low-Dimensional Systems and Nanostructures	2022	2	106
Outcomes and prognostic variables of extracranial germ cell tumors in children and adolescents treated over a decade: A developing world perspective	Ramanathan S., Department of M	Medical and Health Sciences	Pediatric Blood and Cancer	2022	2	130
Improved Li storage performance of SnO nanodisc on SnO ₂ quantum dots embedded carbon matrix	Dutta Pathak D., Chemistry Divis	Chemical Sciences	Nanotechnology	2022	4	220
Shape dependent multiferroic behavior in Bi ₂ Fe ₄ O ₉ nanoparticles	Sahoo A., CSIR-Central Glass & C	Physical Sciences	Nanotechnology	2022	2	220
Polymeric photonic quasicrystal: octonacci sequence and elasto-optic effect	Nayak C., Department of Electro	Physical Sciences	Optical and Quantum Electronics	2022	1	68
MOF-Derived Porous Fe ₃ O ₄ /RuO ₂ -C Composite for Efficient Alkaline Overall Water Splitting	Shekhawat A., School Of Chemi	Chemical Sciences	ACS Applied Energy Materials	2022	12	71
Surgical route and pathological risk factors in early cervical cancer - Node Zero (SURPEC-NO)	Shylasree T.S., Department of G	Medical and Health Sciences	Journal of Cancer Metastasis and Treatment	2022	0	10
Study on Heat Transfer Behavior in a Scaled Down Core Catcher using Simulant Corium Having Indirect Cooling and (Quasi) Volumetric Heat Source	Munot S.S., Homi Bhabha Natio	Engineering Sciences	Thermal Engineering	2022	1	23
Production of light (anti)neutrons in pp collisions at $\sqrt{s}=0.2$ TeV	Acharya S., Variable Energy Cycl	Physical Sciences	European Physical Journal C	2022	3	188
3-Arylsulfonylquinolines from N-Propargylamines via Cascaded Oxidative Sulfenylation Using DABSO	Mathuri A., School Of Chemical S	Chemical Sciences	Journal of Organic Chemistry	2022	1	239
Thermally-induced co-existence of superparamagnetism and spin-glass like behavior in undoped amorphous AlN thin film	Nath D., UGC-DAE Consortium fo	Physical Sciences	Materials Research Bulletin	2022	2	124

Analysis of the discharge plasma impedance of copper vapor laser	Singh D.K., Homi Bhabha Nation	Engineering Sciences	Laser Physics	2022	3	60
Dynamics in tris(pentafluoroethyl)trifluorophosphate (FAP) anion based ionic liquids: A 2D-IR study with tungsten hexacarbonyl	Mora A.K., Radiation & Photochem	Chemical Sciences	Journal of Molecular Liquids	2022	3	150
First-principles study of electronic, cohesive and elastic properties of silica polymorphs	Denice D., Control Instrumental	Engineering Sciences	Materials Today Communications	2022	4	42
Prognostic Nutritional Index Prior to Rectal Cancer Resection Predicts Overall Survival	Kazi M., Department of Colorect	Medical and Health Sciences	Nutrition and Cancer	2022	1	125
Silicized halloysite nanotubes as 'nano-platform' for the complexation and removal of Fe (II) and Fe (III) ions from aqueous environment	Pandey G., School of Doctoral St	Physical Sciences	Separation and Purification Technology	2022	19	161
Z N symmetry in S U (N) gauge theories	Biswal M., Indian Institute of Sci	Physical Sciences	International Journal of Modern Physics A	2022	0	105
A novel differential evolution algorithm for tone reservation based peak to average power ratio reduction technique in orthogonal frequency division multiplexing systems	Rakshit M., A.K. Choudhury Scho	Life Sciences	Swarm and Evolutionary Computation	2022	2	88
Nd3+-Y3Al5O12 system: Iso-valent substitution driven structural phase evolution and thermo-physical behavior	Bhandari K., Radiometallurgy Div	Chemical Sciences	Journal of Molecular Structure	2022	3	117
Succinic acid functionalized magnetic mesoporous silica for the magnetic assisted separation of uranium from aqueous solution	Amesh P., Reprocessing Researc	Physical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	4	73
Electromagnetic spectral functions in hot and dense chirally imbalanced quark matter	Ghosh S., Government General C	Physical Sciences	Physical Review D	2022	1	378
High Open-Circuit Voltage in Double Perovskite Oxide A2Nd5B6O6 (A = Ba, Sr) Photoanode-Based Dye-Sensitized Solar Cells	Sheikh M.S., Department of Phys	Physical Sciences	Journal of Electronic Materials	2022	2	107
Nonthermal neutrino-like hot dark matter in light of the S8 tension	Das S., Indian Institute of Astrop	Physical Sciences	Physical Review D	2022	5	378
Oxygen Plasma for Prevention of Biofilm Formation on Silicone Catheter Surfaces: Influence of Plasma Exposure Time	Dave P., Atmospheric Pressure P	Physical Sciences	Plasma Chemistry and Plasma Processing	2022	0	72
Dilepton production from chirally asymmetric matter	Chaudhuri N., Variable Energy Cy	Physical Sciences	Physical Review D	2022	0	378
Relativistic Description of Dense Matter Equation of State and Compatibility with Neutron Star Observables: A Bayesian Approach	Malik T., CfisUC, Department of	Physical Sciences	Astrophysical Journal	2022	15	462
Fermi energy-level shift of p-type AgBiSe2 single crystal featuring semiconductor-to-metal transition at cryogenics	William Carry M., SSN Research C	Physical Sciences	Semiconductor Science and Technology	2022	1	122
Numerical analysis of heat dissipation through granite and clay in the multibarrier system of a geological disposal facility	Kumar B., Homi Bhabha Nation	Engineering Sciences	Current Science	2022	1	130
Identification of EP2004777 and FG2216 as inhibitors of TGF-β1 induced Treg cells by screening a library of epigenetic compounds	Premkumar K., Immunology Sect	Life Sciences	Life Sciences	2022	0	182
Velocity Driven Transition in Three Dimensional Ising Model	Sahal M.K., Homi Bhabha Nation	Physical Sciences	International Journal of Theoretical Physics	2022	0	68
Effect of drug aceclofenac on physicochemical properties of mixed micellar systems	Sheelarani B., Department of Ch	Physical Sciences	SN Applied Sciences	2022	1	43
Direct observation of the dead-cone effect in quantum chromodynamics	Acharya S., Variable Energy Cycl	Physical Sciences	Nature	2022	17	1331
Low exposure long-baseline neutrino oscillation sensitivity of the DUNE experiment	Abud A.A., CERN, The European	Physical Sciences	Physical Review D	2022	3	378
Non-enzymatic function of WRN RECQL helicase regulates removal of topoisomerase-I-DNA covalent complexes and triggers NF-κB signaling in cancer	Gupta P., Bio-Organic Division, B	Life Sciences	Aging Cell	2022	1	163
Tribophosphorescence from a Simple Boronic Ester	Prasad Nandi R., Department of	Chemical Sciences	ChemPhotoChem	2022	1	30
Graph Ricci curvatures reveal atypical functional connectivity in autism spectrum disorder	Elumalai P., The Institute of Mat	Life Sciences	Scientific Reports	2022	4	280
Fast Exact Algorithms for Survivable Network Design with Uniform Requirements	Agrawal A., Indian Institute of Te	Mathematical Sciences	Algorithmica	2022	0	78
Parameter optimization and experimental validation of A-TIG welding of super austenitic stainless steel AISI 904L using response surface methodology	Sunny K.T., Department of Mech	Engineering Sciences	Proceedings of the Institution of Mechanical Engineers, Part E: Jou	2022	3	34
Nonlinear dynamical modelling of high frequency electrostatic drift waves using fluid theoretical approach in magnetized plasma	Acharya S.P., Saha Institute of Ni	Physical Sciences	Chaos, Solitons and Fractals	2022	0	160
Inferior Vena Cava (IVC) Resection Without Reconstruction for a Large IVC Leiomyosarcoma	Kunte A., GI & HPB Services, Dep	Medical and Health Sciences	Journal of Gastrointestinal Surgery	2022	0	139
Synthesis, structural and dielectric studies of magnetoelectric lead nickel niobate ceramics	Preeti, Department of Physics, A	Physical Sciences	Journal of the Australian Ceramic Society	2022	2	25
A Highly Active Nitrogen-Doped Mixed-Phase Mixed-Valence Cobalt Nanocatalyst for Olefins and Nitroarenes Hydrogenation	Ghosh T., Discipline of Chemistr	Chemical Sciences	Chemistry Select	2022	2	51
Effect of Directional Nature of Antenna and Magnetic Field Strength on Optimal Power Absorption in a Helicon Discharge	Sharma N., Centre of Plasma Phy	Physical Sciences	Plasma Physics Reports	2022	0	59
Monoclinic symmetry at the nanoscale in lead-free ferroelectric Ba2rxTl1-x O3 ceramics	Dey K., UGC DAE Consortium for	Physical Sciences	Physical Review B	2022	1	481
Assessment of the management of carcinomatous meningitis from breast cancer globally: a study by the Breast International Group Brain Metastasis Task Force	Razis E., 3rd Oncology Departme	Life Sciences	ESMO Open	2022	1	49
Ab-initio study on the CoZrVn equiatomic quaternary alloy for spintronic and thermoelectric applications	Aravindan V., Smart Materials La	Physical Sciences	Materials Today: Proceedings	2022	4	16
Sintering of nanocrystalline boron carbide synthesized by the B2O3-sucrose precursor method	Vijay S.K., Metal Fuel and Pyropr	Chemical Sciences	Ceramics International	2022	1	140
Base-Catalyzed Traceless Silylation and Deoxygenative Cyclization of Chalcones to Cyclopropanes	Sahu M.K., School of Chemical Sc	Chemical Sciences	Journal of Organic Chemistry	2022	0	239
Response of PDPA to optical materials and thickness of test section window	Kumar S., Department of Aero	Physical Sciences	Measurement: Journal of the International Measurement Confede	2022	0	115
Prethermalization and entanglement dynamics in interacting topological pumps	Gawatz R., Center for Quantum I	Physical Sciences	Physical Review B	2022	1	481
Cosmic ray measurements using the ISMIRAN setup in a non-reactor environment	Behera S.P., Nuclear Physics Divi	Physical Sciences	Astroparticle Physics	2022	1	120
High-speed photon Doppler velocimetry for laser-driven flyer acceleration studies	Chaurasia S., High Pressure and S	Physical Sciences	Pramana - Journal of Physics	2022	0	58
Structural analysis and magnetic properties of cobalt-doped nanotitania	Misra K.P., Department of Physic	Chemical Sciences	Materials Science and Engineering: B	2022	2	129
Circulating tumor cells as a predictor for poor prognostic factors and overall survival in treatment naïve oral squamous cell carcinoma patients	Gayyumi B., Department of Hea	Medical and Health Sciences	Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology	2022	1	133
Quality control of mass-produced GEM detectors for the CMS GE1/1 muon upgrade	Abbas M., Karlsruhe Institute of	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A: A	2022	5	176
Graphitic carbon nitride (g-C3N4) decorated with Yttrium as potential hydrogen storage material: Acumen from quantum simulations	Mane P., Seismology Division, BR	Physical Sciences	International Journal of Hydrogen Energy	2022	9	248
Thermal relaxation of dark matter admixed neutron star	Kumar A., Institute of Physics, Si	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	4	357

Long term antifouling performance of superhydrophobic surfaces in seawater environment: Effect of substrate material, hierarchical surface feature and surface chemistry	Rasitha T.P., Corrosion Science	Chemical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	13	187
Immediate or salvage radiotherapy after radical prostatectomy: Do we finally know?	Srinivasan S., Department of Rad	Medical and Health Sciences	The National medical Journal of India	2022	0	46
Effects of prolonged treatment of TGF- β R inhibitor SB431542 on radiation-induced signaling in breast cancer cells	Yadav P., Radiation Biology and	Life Sciences	International Journal of Radiation Biology	2022	2	97
Magnetic fields and young stellar objects in cometary cloud L1616	Saha P., Satyendra Nath Bose Na	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	0	357
On the Search for Low W0	Broeckel I., Dipartimento di Fisic	Physical Sciences	Fortschritte der Physik	2022	3	68
Description and evaluation of the community aerosol dynamics model MAFOR v2.0	Karl M., Chemistry Transport Mo	Physical Sciences	Geoscientific Model Development	2022	5	115
Development of a rapid technique for sequential separation of plutonium/americium in nasal swab using solvent extraction and liquid scintillation spectrometry	Panda S., Internal Dosimetry Sec	Physical Sciences	Applied Radiation and Isotopes	2022	0	85
Isospin dependence of nuclear level density at $A \approx 120$ mass region	Shil R., Department of Physics, S	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	1	275
ON TREEWIDTH and STABLE MARRIAGE: PARAMETERIZED ALGORITHMS and HARDNESS RESULTS (COMPLETE CHARACTERIZATION)+	Gupta S., Institute of Mathemat	Mathematical Sciences	SIAM Journal on Discrete Mathematics	2022	1	66
Effect of magnetic phase fluctuation on magnetic and magnetocaloric properties of polycrystalline $(Nd_{0.55}Mn_{0.51}O_5/Sr_{0.75}Ba_{0.25}O_3)$ compound	Chatterjee S., CMP Division, Saha	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	0	187
Peri-intubation Cardiovascular Collapse in Patients Who Are Critically Ill: Insights from the INTUBE Study	Rusotto V., Department of Ane	Medical and Health Sciences	American Journal of Respiratory and Critical Care Medicine	2022	25	404
On the parameterized complexity of Grid Contraction	Saurabh S., The Institute of Mat	Mathematical Sciences	Journal of Computer and System Sciences	2022	0	99
Hole-injection barrier across the intermolecular interaction mediated interfacial DNTT layer	Mandal S., Saha Institute of Nucl	Physical Sciences	Applied Surface Science	2022	3	219
Influence of phase boundary on magnetic and magnetocaloric properties of nanocrystalline $La_{0.17}Ca_{0.83}MnO_3$ sample	Mondal N., Physics Department,	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	0	187
Nudged elastic band approach to nuclear fission pathways	Flynn E., Department of Physics	Physical Sciences	Physical Review C	2022	1	229
Impact of pauli-blocking effect on optical limiting properties of WSe2 thin films	Surbhi K., School of Physical Scie	Physical Sciences	Optical Materials	2022	2	113
Production of high-energy γ rays in proton- and α -induced reactions	Mondal D., Variable Energy Cycl	Physical Sciences	Physical Review C	2022	1	229
Microplastics as vectors of radiiodine in the marine environment: A study on sorption and interaction mechanism	Rout S., Environmental Monit	Physical Sciences	Environmental Pollution	2022	6	275
Thermophysical properties of hexapropyl and hexabutyl phosphoramides in n-dodecane	Jegan G., Homi Bhabha National	Chemical Sciences	Results in Chemistry	2022	0	14
Epoxy-based Light Weight Gamma Ray Shielding Materials	Joshi S., Radiological & Environ	Chemical Sciences	Indian Journal of Pure and Applied Physics	2022	1	45
Unnatural Amino Acid: 4-Aminopyrazolonyl Amino Acid Comprising Tri-Peptides Forms Organogel With Co-Solvent (EtOAc:Hexane)	Bollu A., National Institute of Sci	Chemical Sciences	Frontiers in Chemistry	2022	0	87
Anomalous Critical Field Dependence of Cr-Nb-Cr Trilayers on Niobium Thickness	Vaidyanathan L.S., Materials Sc	Engineering Sciences	Indian Journal of Pure and Applied Physics	2022	0	45
Low-Grade Oncocytic Tumor: Report of Two Cases of An Emerging Entity in the Spectrum of Oncocytic Renal Neoplasms	Sharma D., Departments of Path	Medical and Health Sciences	Turk Patoloji Dergisi	2022	1	17
TMC-SNPdb 2.0: an ethnic-specific database of Indian germline variants	Desai S., Integrated Cancer Genc	Life Sciences	Database	2022	0	20
Temporal and spectral study of PKS 0208-512 during the 2019-2020 flare	Khatoon R., Tezpur University, N	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	4	357
PERFORMANCE OF BARC NEUTRON PERSONAL DOSEMETER IN EURADOS INTERCOMPARISON EXERCISE IC2017N - A LESSON LEARN	Bakshi A.K., Radiological Physics	Physical Sciences	Radiation Protection Dosimetry	2022	0	77
Proteomic Perspective of Cadmium Tolerance in Providencia rettgeri Strain KDM3 and Its In-situ Bioremediation Potential in Rice Ecosystem	Salaskar D.A., Nuclear Agricultur	Life Sciences	Frontiers in Microbiology	2022	0	201
Characterization of anomalous diffusion in one-dimensional quantum walks	Hegde A.S., Quantum Optics & C	Physical Sciences	Journal of Physics A: Mathematical and Theoretical	2022	2	160
The reality of cholangiocarcinoma in India – Real world data from a tertiary referral centre	Gupta V., Department of Surgica	Medical and Health Sciences	Annals of Hepato-Biliary-Pancreatic Surgery	2022	0	60
Ratio of Hydrophobic-Hydrophilic and Positive-Negative Residues at Lipid-Water-Interface Influences Surface Expression and Channel Gating of TRPV1	Saha S., School of Biological Scie	Physical Sciences	Journal of Membrane Biology	2022	2	103
Effect of Fe Doping on Photocatalytic Dye-Degradation and Antibacterial Activity of SnO ₂ Nanoparticles	Preethi T., Advanced Materials R	Physical Sciences	Adsorption Science and Technology	2022	6	44
Oral metronomic chemotherapy after definitive chemoradiation in esophageal squamous cell carcinoma: a randomized clinical trial	Noronha V., Department of Med	Medical and Health Sciences	Esophagus	2022	1	29
Clinical features, predictors and outcome of posterior reversible encephalopathy syndrome (PRES) in children with hematology/malignancies	Ramanathan S., Department Of	Medical and Health Sciences	Child's Nervous System	2022	1	91
Spin reorientation behavior and enhanced multiferroic properties of co-doped YFeO ₃ towards a monophasic multiferroic ceramic Co _{0.05} Y _{0.95} Fe _{0.95} Ti _{0.05} O ₃	Das S., Solid State Research Lab	Physical Sciences	Advanced Powder Technology	2022	5	89
Noise-like pulses from all-normal dispersion ytterbium doped all-fiber oscillator with semiconductor saturable absorber	Paul N., Laser Technology Divisio	Physical Sciences	Journal of Optics (United Kingdom)	2022	2	101
Curcubituril-Based Supramolecular Assemblies: Prospective on Drug Delivery, Sensing, Separation, and Catalytic Applications	Barooh N., Radiation & Photoc	Chemical Sciences	Langmuir	2022	13	319
Fate of Neptunium in nuclear fuel cycle streams: State-of-the-art on separation strategies	Verma P.K., Radiochemistry Divi	Chemical Sciences	Radiochimica Acta	2022	3	71
A Study of Internet Time Dissemination Services and Their Capabilities: NTP as a Special Case in Time Metrology	Kumar G., Thapar Institute of En	Physical Sciences	Mapan - Journal of Metrology Society of India	2022	0	17
Evaluation of quantitative imaging parameters in head and neck squamous cell carcinoma	Gupta T., Department of Radiati	Medical and Health Sciences	Quarterly Journal of Nuclear Medicine and Molecular Imaging	2022	2	63
Magnetic properties of exchange-biased FeCo/CoO bilayer and its electronic structure	Gupta R., School of Instrumenta	Physical Sciences	Applied Physics A: Materials Science and Processing	2022	0	159
Synthesis and characterization of a computationally predicted redox and radiation stable deep eutectic solvent	Das L., Radiation & Photochemis	Chemical Sciences	Journal of Molecular Liquids	2022	3	150
Isolation and Identification of Antibacterial compound from Actinomycetes isolated from Mangrove soil	Jalan R., Department of Biotech	Applied Systems Analysis	Research Journal of Pharmacy and Technology	2022	0	13
Modulation of bandgap and electrical conductivity in europium doped single ZnO nanorod device	Sikdar M.K., School of Physical S	Physical Sciences	Journal of Alloys and Compounds	2022	4	200
Machine-learning approach to predict molecular subgroups of medulloblastoma using multiparametric MRI-based tumor radiomics	Saju A.C., Department of Radiati	Medical and Health Sciences	British Journal of Radiology	2022	4	116
Hepatocellular Carcinoma Evaluation and Management for Physicians: Joint Gastroenterology Research Society and Association of Physicians of India Guidelines	Shukla A., Department of Gastro	Medical and Health Sciences	The Journal of the Association of Physicians of India	2022	0	63
Scars from protected zero modes and beyond in U[1] quantum link and quantum dimer models	Biswas S., Department of Physic	Physical Sciences	SciPost Physics	2022	11	52

Modeling of neutronics and thermal-hydraulic aspects during total instantaneous blockage of central fuel subassembly in a fast reactor	Narendran Y., Indra Gandhi Cen	Physical Sciences	Annals of Nuclear Energy	2022	2	77
Thresholding of prominent biomarkers of breast cancer on overall survival using classification and regression tree	Vishwakarma G.K., Department	Medical and Health Sciences	Cancer Biomarkers	2022	2	50
Systemic inflammatory biomarkers in primary central nervous system lymphoma versus high-grade glioma: Exploratory, comparative and correlative analysis	Gupta T., Department of Radiat	Medical and Health Sciences	CNS Oncology	2022	0	28
Origin of Resonant Character in the Electron Impact Two-Body Neutral-Fragmentation of Methane	Sajeev Y., Theoretical Chemistry	Chemical Sciences	ChemPhysChem	2022	0	39
Observational analysis and numerical simulation of sea breeze using WRF model over the Indian southeast coastal region	Reddy B.R., Environmental Asses	Physical Sciences	Meteorology and Atmospheric Physics	2022	2	69
Uncovering the history of cosmic inflation from anomalies in cosmic microwave background spectra	Braglia M., Instituto de Fisica Te	Physical Sciences	European Physical Journal C	2022	11	188
Neutronic analysis of Indian helium-cooled solid breeder tritium breeding module for testing in ITER	Swami H.L., Institute for Plasma	Engineering Sciences	Plasma Science and Technology	2022	0	39
Mebendazole plus lomustine or temozolomide in patients with recurrent glioblastoma: A randomised open-label phase II trial	Patil V.M., Department of Medic	Medical and Health Sciences	eClinicalMedicine	2022	5	63
Ablation behaviour of Cf-ZrC-SiC with and without rare earth metal oxide dopants	Tammanna S.R.C.M., School of M	Engineering Sciences	Open Ceramics	2022	6	12
Temperature dependence of red luminescence in pure β -Ga ₂ O ₃ : An estimation of electron-phonon interaction	Bhattacharjee J., Synchrotrons U	Physical Sciences	Solid State Communications	2022	2	139
Equilibrium Magnetic Field Requirements during Plasma Initiation and Current Ramp-up Phase in ADITYA/ADITYA-U Tokamak Discharges*	Tanna R.L., Institute for Plasma F	Physical Sciences	Plasma and Fusion Research	2022	0	21
Significant modulation in field-induced energy storage capability of BNKT-BN ceramics	Kushvaha D.K., Department of P	Physical Sciences	Physica B: Condensed Matter	2022	1	124
Effect of laser shock peening on ratcheting strain accumulation, fatigue life and bulk texture evolution in HSLA steel	Dwivedi P.K., Department of Me	Physical Sciences	International Journal of Fatigue	2022	13	145
Safety, toxicity and pharmacokinetic assessment of oral Withaferin-A in mice	Gupta S.K., Department of Clinic	Life Sciences	Toxicology Reports	2022	6	56
Design and Analysis of a Plasma Chamber for Thermal Processing Applications	Sharma D., Institute for Plasma F	Physical Sciences	Plasma and Fusion Research	2022	0	21
Insight into the complexation of heptavalent technetium with tri-n-butyl phosphate: A computational study	Sengupta S., Fuel Chemistry Divi	Chemical Sciences	Chemical Physics Letters	2022	0	248
Study on high-pressure behaviour of spherical carbon black nanoparticles with core-shell structure	Reddy S.S., UGC-DAE Consortiu	Physical Sciences	Carbon Letters	2022	2	24
Feed-forward neural networks for fitting of kinetic energy and its functional derivative	Gangwar A., Department of Che	Physical Sciences	Chemical Physics Letters	2022	1	248
Synergistic effect of doping and defect in achieving white light emission and oxygen reduction catalysis in Ce1-xMxPO4	Gupta S.K., Radiochemistry Divis	Chemical Sciences	Materials Today Chemistry	2022	1	48
Osimertinib for lung cancer cells harboring low-frequency EGFR T790M mutation	Joshi A., Integrated Cancer Geno	Life Sciences	Translational Oncology	2022	1	66
The role of different plasma forming gases on chemical species formed in plasma activated water (PAW) and their effect on its properties	Rathore V., Atmospheric Plasma	Chemical Sciences	Physica Scripta	2022	9	91
Ionization Energies and Ground-State Structures of Neutral Lan(n = 2-14) Clusters: A Combined Experimental and Theoretical Investigation	Bhattacharyya S., Infrared Laser	Physical Sciences	Journal of Physical Chemistry A	2022	0	250
Scattering lifetime and high figure of merit in CsAgO predicted by methods beyond relaxation time approximation	Sharma V.K., Department of Phy	Physical Sciences	Journal of Physics Condensed Matter	2022	1	244
Observation of Stark splitting in micro upconversion photoluminescence spectra of polycrystalline Ln ³⁺ doped Y ₂ O ₃ microspheres	Jaywal S., Department of Physic	Chemical Sciences	Nanotechnology	2022	0	120
Comprehensive Development and Implementation of Good Laboratory Practice for NGS Based Targeted Panel on Solid Tumor FFPE Tissues in Diagnostics	Chougale A., Medical Oncology-I	Medical and Health Sciences	Diagnostics	2022	3	52
Numerical study of effects of electrode parameters and image charge on the electric field configuration of RPS	Dev T., Homi Bhabha National In	Physical Sciences	Journal of Instrumentation	2022	0	85
Impact of immobilisation and image guidance protocol on planning target volume margins for supine craniospinal irradiation	Krishnatry R., Department of Ra	Medical and Health Sciences	Reports of Practical Oncology and Radiotherapy	2022	0	12
Elucidation of the coping strategy in an OMP homozygous knockout mutant of Synechocystis 6803 defective in iron uptake	Agarwal R., Applied Genomics Se	Life Sciences	Archives of Microbiology	2022	0	112
A reduced cost four-component relativistic coupled cluster method based on natural spinors	Chamoli S., Department of Chem	Chemical Sciences	Journal of Chemical Physics	2022	5	379
Robust perpendicular magnetic anisotropy in Ce substituted yttrium iron garnet epitaxial thin films	Kulla M., UGC-DAE Consortium f	Physical Sciences	Journal of Applied Physics	2022	1	341
Role of Chromium in Anomalous Behavior of the Passive Layer in Ni-Cr-Mo Alloys in 1 M HCl Solution	Karri M., Mechanical Metallurgy	Physical Sciences	Corrosion	2022	1	97
Second malignancy probabilities in patients with prostate cancer treated with whole pelvis radiation therapy versus prostate only radiation therapy	Cho H.L., Harvard Medical Schoo	Medical and Health Sciences	Prostate	2022	1	110
Effect of Zn ²⁺ co-doping on the luminescence of Sm ³⁺ doped SrMoO ₄ phosphor	Chauhan V., Department of Phys	Physical Sciences	Journal of Luminescence	2022	9	126
Effect of Symmetric Tilt and Twist Grain Boundaries on the Void Nucleation, Growth and Spall in polycrystalline Al: Multiscale modelling	Madhavan S., CAD, Bhabha Aton	Physical Sciences	Computational Materials Science	2022	4	135
Thermo-structural analysis of ITER divertor for normal operating conditions	Menon V., Institute for Plasma R	Physical Sciences	Fusion Engineering and Design	2022	0	87
Enhanced H ₂ S gas sensing performance of Ca-doped Bismuth Ferrite thick films	Bagwala T., Department of Phy	Physical Sciences	Materials Science in Semiconductor Processing	2022	0	77
Strain assisted magnetoelectric coupling in ordered nanomagnets of CoFe ₂ O ₄ /SrRuO ₃ (Pb(Mg _{1/3} Nb _{2/3})/O ₃ -PbTiO ₃) heterostructures	Ahluwat A., UGC-DAE Consortiu	Physical Sciences	Journal of Physics Condensed Matter	2022	0	244
Accurate band gaps from exchange potentials designed from a cusplless hydrogen density-based exchange hole model	Patra A., School of Physical Scien	Physical Sciences	Physical Chemistry Chemical Physics	2022	1	272
Clinical Utility of Liquid Biopsy (Cell-free DNA) Based EGFR Mutation Detection Post treatment Initiation as a Disease Monitoring Tool in Patients With Advanced EGFR-mutant NSCLC	Behel V., Tata Memorial Hospital	Medical and Health Sciences	Clinical Lung Cancer	2022	2	69
Studying Thermochemical Conversion of Sm ₂ O ₃ to SmCl ₃ using AlCl ₃ in LiCl-KCl Eutectic Melt	Samanta N., Homi Bhabha Natio	Chemical Sciences	Journal of Electrochemical Science and Technology	2022	2	18
Tobacco and cancer awareness program among school children in rural areas of Ratnagiri district of Maharashtra state in India	Budukh A., Centre for Cancer Ep	Medical and Health Sciences	Indian Journal of Cancer	2022	0	42
Incorporating Au11 nanoclusters on MoS ₂ nanosheet edges for promoting the hydrogen evolution reaction at the interface	Gratiou S., School of Chemistry,	Physical Sciences	Nanoscale	2022	5	288
FISH patterns of ROS1, MET, and ALK with a correlation of ALK immunohistochemistry in lung cancer: a case for introducing ALK immunohistochemistry 'Equivocal' interpretation category in the Ventana anti-ALK (D5F3) CDx assay - A tertiary cancer center experience	Singh A., Division of Molecular P	Medical and Health Sciences	Indian Journal of Cancer	2022	0	42
Hydroxychloroquine plus personal protective equipment versus personal protective equipment alone for the prevention of laboratory-confirmed COVID-19 infections among healthcare workers: a multicentre, parallel-group randomised controlled trial from India	Tirupakuzhi Vijayaraghavan B.K.,	Medical and Health Sciences	BMJ Open	2022	2	139
Going beyond soft plus virtual	Aliath A.H., Laboratoire de Phys	Physical Sciences	Physical Review D	2022	2	378
Soluble factors secreted by human Wharton's jelly mesenchymal stromal/stem cells exhibit therapeutic radioprotection: A mechanistic study with integrating network biology	Maurya D.K., Radiation Biology a	Life Sciences	World Journal of Stem Cells	2022	0	10

Investigation of isotopic dependence on the O + Ni fusion cross section near barrier energies	Deb N.K., Department of Physics	Physical Sciences	Physical Review C	2022	0	229
Influence of metal codeposition on the growth and orientation of nanoripple structure during ion bombardment	Deka A., Saha Institute of Nuclear Physics	Physical Sciences	Physical Review B	2022	0	481
First-passage Brownian functionals with stochastic resetting	Singh P., International Centre for Mathematical Physics	Physical Sciences	Journal of Physics A: Mathematical and Theoretical	2022	5	160
Treatment of Refractory Medicine Related Osteonecrosis of Jaw with Piezosurgical Debridement and Autologous Platelet Rich Fibrin: Feasibility Study	Gurav S., Department of Dental Surgery	Medical and Health Sciences	Journal of Craniofacial Surgery	2022	3	89
Next to soft corrections to Drell-Yan and Higgs boson productions	Ajjath A.H., The Institute of Mathematics	Physical Sciences	Physical Review D	2022	6	378
Long time fate of two-dimensional incompressible high Reynolds number Navier-Stokes turbulence: A quantitative comparison between theory and simulation	Biswas S., Institute for Plasma Research	Physical Sciences	Physics of Fluids	2022	1	195
Quantum computational study of small bismuth-cobalt nanoalloy clusters	Trivedi R., High Pressure and Synthesis	Physical Sciences	Optical and Quantum Electronics	2022	1	68
Revealing superstructure ordering in Co _{1-x} Mn _x Heusler alloys and its effect on structural, magnetic, and electronic properties	Baral M., Synchrotron Utilization	Physical Sciences	Physical Review B	2022	1	481
Cell adhesion strength and tractions are mechano-diagnostic features of cellular invasiveness	Paddilaya N., Centre for Biosystems	Life Sciences	Soft Matter	2022	1	190
Self-propulsion with speed and orientation fluctuation: Exact computation of moments and dynamical bistabilities in displacement	Shee A., Institute of Physics, Sachin	Physical Sciences	Physical Review E	2022	2	317
Investigating the effects of electron bounce-cyclotron resonance on plasma dynamics in capacitive discharges operated in the presence of a weak transverse magnetic field	Sharma S., Institute for Plasma Research	Physical Sciences	Physics of Plasmas	2022	7	169
Role of ADME gene polymorphisms on imatinib disposition: results from a population pharmacokinetic study in chronic myeloid leukaemia	Shriyan B., Department of Clinical Pharmacy	Medical and Health Sciences	European Journal of Clinical Pharmacology	2022	1	118
Automated radiochemical synthesis of pharmaceutical grade [18F]FLT using 3-N-Boc-5'-O-dimethylthioethyl-3'-O-nosyl-thymidine precursor and its Sep-Pak [®] purification employing selective elution from reversed phase	Mitra A., Radiopharmaceuticals	Life Sciences	Journal of Labelled Compounds and Radiopharmaceuticals	2022	1	51
Co(II)-Catalyzed C-H/N-H Annulation of Cyclic Alkenes with Benzamides at Room Temperature: An Easy Access to the Core Skeleton of Hexahydrobenzo[<i>c</i>]phenanthridine-type Alkaloids	Adhikari G.K.D., School of Chemistry	Chemical Sciences	Asian Journal of Organic Chemistry	2022	0	51
Magnetic nanoemulsion aided optical defect detection in carbon steel components: Effect of defect width variation on optical contrast	Nandy M., Smart Materials Section	Physical Sciences	Journal of Applied Physics	2022	3	341
Solidlike to liquidlike behavior of Cu diffusion in superionic Cu ₂ X (X = S, Se): An inelastic neutron scattering and ab initio molecular dynamics investigation	Kumar S., Solid State Physics Division	Physical Sciences	Physical Review Materials	2022	7	59
Evaluation of gamma radiation-induced genotoxicity in the workers of Italian honey bees, <i>Apis mellifera ligustica</i> , using single cell gel electrophoresis (comet) assay	Shameer P.M., Centre for Applied Microbiology	Chemical Sciences	Journal of Apicultural Research	2022	0	66
Revisiting excitation gaps in the fractional quantum Hall effect	Zhao T., Department of Physics, Tsinghua University	Physical Sciences	Physical Review B	2022	2	481
Comparative study on photo and electroluminescence properties of Cu-doped ZnS	Rastogi C.K., Chemistry Division, Institute of Physics	Chemical Sciences	Physica B: Condensed Matter	2022	3	124
Surface tailored graphite-polymer composite electrodes through cold plasma for electrochemical applications	Luhar S., Analytical and Environmental Chemistry	Physical Sciences	Plasma Processes and Polymers	2022	1	83
Lamin A and telomere maintenance in ageing: Two to Tango	Sengupta D., Saha Institute of Nuclear Physics	Life Sciences	Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis	2022	4	156
Rapid estimation of the isotopic composition and total mass fraction of boron in enriched B4C samples for Indian fast reactor technology using external (in air) particle induced Gamma-ray emission technique	Chand M., Materials Chemistry Division	Chemical Sciences	Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Matter and Atoms	2022	0	127
Tuning magnetic heating efficiency of colloidal dispersions of iron oxide nano-clusters by varying the surfactant concentration during solvothermal synthesis	Ranoop S., Smart Materials Section	Physical Sciences	Journal of Molecular Liquids	2022	5	150
High cubicity of D2O ice inside spherical nanopores of MIL-101(Cr) framework: a neutron diffraction study	Dutta D., Radiochemistry Division	Chemical Sciences	Physical Chemistry Chemical Physics	2022	1	372
Combinatorial effects of non-thermal plasma oxidation processes and photocatalytic activity on the inactivation of bacteria and degradation of toxic compounds in wastewater	Rajil A., Research Division of Plasma Physics	Physical Sciences	RSC Advances	2022	3	189
rGO/ReO ₃ nano composite modified electrode for the ultra-sensitive determination of dopamine and uric acid	Manna S., Analytical Chemistry Division	Chemical Sciences	Biosensors and Bioelectronics: X	2022	5	11
Synergistic effect of Zn doping on thermoelectric properties to realize a high figure-of-merit and conversion efficiency in Bi ₂ -xZnxTe ₃ based thermoelectric generators	Kumar R., Department of Mechanical Engineering	Chemical Sciences	Journal of Materials Chemistry C	2022	6	166
Wavelength dependent photoionisation of ethanol clusters: generation of hydrogen like C ₅ ⁺ ions at terawatt laser intensity	Das S., Chemistry Division, Bhabha Atomic Research Centre	Chemical Sciences	Physical Chemistry Chemical Physics	2022	1	272
Measurements of Proton High-Order Cumulants in sNN = 3 GeV Au+Au Collisions and Implications for the QCD Critical Point	Abdallah M.S., American University	Physical Sciences	Physical Review Letters	2022	23	674
Measurements of H A3 and H A4 Lifetimes and Yields in Au+Au Collisions in the High Baryon Density Region	Abdallah M.S., American University	Physical Sciences	Physical Review Letters	2022	8	674
Influence of long term Sodium Exposure on the Corrosion and Tensile Properties of AISI Type 316LN stainless steel and modified 9Cr-1Mo steel	Sivaibharasi N., Corrosion Science	Chemical Sciences	Journal of Nuclear Materials	2022	2	157
A cationic AlEgen and hexametaphosphate based simple and convenient fluorometric assay for alkaline phosphatase and its inhibitor	Kaur J., Radiation & Photochemistry	Chemical Sciences	Organic and Biomolecular Chemistry	2022	5	160
Integrated Expression Analysis of Small RNA, Degradome and Microarray Reveals Complex Regulatory Action of miRNA during Prolonged Shade in Swarnaprabha Rice	Panigrahy M., Biofuel & Bioprocess	Life Sciences	Biology	2022	4	63
Monosaccharide Linked Schiff Base Metal Complexes of Cu(II), Zn(II) and Mn(II): Exploring the Antiproliferative Activity and Cell Death Mechanism	Mondal S.S., Department of Chemistry	Chemical Sciences	Chemistry Select	2022	0	51
Magneto-caloric Effect, Magnetic Interactions and Phase Transition in La _{1.3} Fe _{11.6} -xSi _{1.4} Gax Alloys	Archana R., International Advanced Centre for Materials Science	Physical Sciences	Journal of Superconductivity and Novel Magnetism	2022	2	14
Understanding the Interaction between Inorganic and Organic Excitonic Components of an Inorganic-Organic Nanohybrid Associate	Banerjee S., School of Chemical Sciences	Chemical Sciences	ChemNanoMat	2022	0	42
Extranodal MALT Lymphoma in the Oral Cavity: A Series of Three Cases with Review of Literature	Kaur R., Tata Memorial Hospital	Medical and Health Sciences	Head and Neck Pathology	2022	0	62
Inept and Indifferent? Self-Understanding of Early Career Teachers of Government Schools in the Indian State of Odisha	Apat B., School of Humanities and Social Sciences	Applied Systems Analysis	Education Research International	2022	0	15
Magnetar XTE J1810-197: Spectro-Temporal Evolution of Average Radio Emission	Maan Y., National Centre for Radio Astrophysics	Physical Sciences	Astrophysical Journal	2022	1	462
A comprehensive analysis of WASP-17b's transmission spectrum from space-based observations	Alderson L., School of Physics, University of Exeter	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	7	357
Primordial standard clock models and CMB residual anomalies	Braglia M., Instituto de Física Teórica	Physical Sciences	Physical Review D	2022	5	378
Preparation of In-House Calibration Standard Solutions for Mn, Co and Their Assay Using Nuclear Analytical Techniques	Remya Devi P.S., Analytical Chemistry	Chemical Sciences	Mapan - Journal of Metrology Society of India	2022	1	17
Blast Waves in Two and Three Dimensions: Euler Versus Navier-Stokes Equations	Kumar A., The Institute of Mathematics	Physical Sciences	Journal of Statistical Physics	2022	1	115
A close look on 2-3 mixing angle with DUNE in light of current neutrino oscillation data	Agarwalla S.K., Institute of Physics	Physical Sciences	Journal of High Energy Physics	2022	1	247
Liquid-Liquid Extraction and Supported Liquid Membrane Transport of Neptunium(IV) Across a Flat-Sheet Supported Liquid Membrane Containing a TREN-DGA Derivative	Mahanty B., Radiochemistry Division	Chemical Sciences	Solvent Extraction and Ion Exchange	2022	4	71
Aluminum-catalyzed selective hydroboration of carbonyls and dehydrocoupling of alcohols, phenols, amines, thiols, selenols, silanols with HB ₃ pin	Sarkar N., School of Chemical Sciences	Chemical Sciences	Polyhedron	2022	2	106

Longitudinal double-spin asymmetry for inclusive jet and dijet production in polarized proton collisions at $s = 510$ GeV	Abdallah M.S., American Univers	Physical Sciences	Physical Review D	2022	6	378
Simulated experimental investigation of microplastic weathering in marine environment	Yadav S., Environmental Monito	Chemical Sciences	Journal of Environmental Science and Health - Part A Toxic/Hazards	2022	1	76
Josephson quantum spin thermodynamics	Pal S., School of Physical Science	Physical Sciences	Journal of Physics Condensed Matter	2022	2	244
Structural alterations of branched versus linear mixed-surfactant micellar systems with the addition of a complex perfume mixture and dipropylene glycol as cosolvent	Mirzamani M., James L. Winkle C	Physical Sciences	RSC Advances	2022	3	189
Vibrationally Excited Lines of HCN Associated with the Molecular Disk around the G24.78+0.08 A1 Hypercompact H II Region	Taniguchi K., National Astronom	Physical Sciences	Astrophysical Journal	2022	1	452
Tuning the Electronic Structure of a Ni-Vacancy-Enriched AuNi Spherical Nanoalloy via Electrochemical Etching for Water Oxidation Studies in Alkaline and Neutral Media	Karmakar A., Academy of Scienti	Physical Sciences	Inorganic Chemistry	2022	3	249
Genomic Analysis of AZD1222 (ChAdOx1) Vaccine Breakthrough Infections in the City of Mumbai	Shetty A., Haematopathology Lab	Medical and Health Sciences	International Journal of clinical practice	2022	0	108
Unique O=N...O N-Hydrogen Interactions in Nitromethane Dimers: Evidence Using Matrix Isolation Infrared Spectroscopy and Computational Methodology	Chandra S., Materials Chemistry	Chemical Sciences	Journal of Physical Chemistry A	2022	5	250
Extended relaxation time approximation and relativistic dissipative hydrodynamics	Dash D., School of Physical Scien	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-Er	2022	9	275
Preparation of U-Nb alloy from oxide precursors by direct oxide electrochemical reduction method	Khan M.S., Indira Gandhi Centre	Chemical Sciences	Journal of the Electrochemical Society	2022	1	207
Effect of topological non-hexagonal rings and Stone-Wale defects on the vibrational response of single and multi-layer ion irradiated graphene	Manna A.K., Institute of Physics,	Physical Sciences	Physica E: Low-Dimensional Systems and Nanostructures	2022	1	106
Rheological response of a glass-forming liquid having large bidispersity	Vaibhav V., The Institute of Mat	Physical Sciences	Soft Matter	2022	1	190
Enhanced ferroelectric and piezoelectricity in 100 MeV Ag ⁷⁺ ion-irradiated <011>-oriented TGS single crystals	Villapakkam Chandra Sekaran B.S	Physical Sciences	Applied Physics A: Materials Science and Processing	2022	0	158
Population-level Outcomes of Early Thyroid Cancers: A Need to Revisit Current Practice	Chaturvedi P., Department of He	Medical and Health Sciences	Rambam Maimonides Medical Journal	2022	0	6
Numerical investigations on dynamic characteristics of series coupled single-phase natural circulation loops	Adinarayana K.N.V., Homi Bhabh	Engineering Sciences	International Journal of Thermal Sciences	2022	0	138
Micellar assembly leading to structural growth/transition in normal and reverse Tetronics TM in single and mixed solution environment	Patel D., Department of Chemist	Physical Sciences	Soft Matter	2022	6	190
Development of Resistive-Ink Based Planar and Conformal Metasurfaces for RCS Reduction	Tiwari P., Institute for Plasma Re	Engineering Sciences	IEEE Access	2022	0	204
Confinement Matters: Stabilization of CdS Nanoparticles inside a Postmodified MOF toward Photocatalytic Hydrogen Evolution	Ghosh A., New Chemistry Unit, S	Chemical Sciences	ACS Applied Materials and Interfaces	2022	21	284
Radiation Therapy Dose Escalation in Unresectable Ewing Sarcoma: Final Results of a Phase 3 Randomized Controlled Trial	Laskar S., Department of Radiati	Medical and Health Sciences	International Journal of Radiation Oncology Biology Physics	2022	7	268
Calcium-binding proteins typify the dopaminergic neuronal subtypes in the ventral tegmental area of zebra finch, <i>Taeniopygia guttata</i>	Mitra S., School of Biological Scie	Life Sciences	Journal of Comparative Neurology	2022	0	222
Amino acid induced self-assembled vesicles of choline oleate: pH responsive nano-carriers for targeted and localized delivery of doxorubicin for breast cancer	Jain M., Ionic Liquids Research La	Physical Sciences	Journal of Molecular Liquids	2022	2	150
Interplay between disorder and hardening during tensile fracture of a quasi-brittle solid	Kumar D., Department of Applie	Physical Sciences	Proceedings of the Royal Society A: Mathematical, Physical and Eng	2022	1	144
Measurements of the groomed and ungroomed jet angularities in pp collisions at $\sqrt{s} = 5.02$ TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Journal of High Energy Physics	2022	9	247
Initial state dependent dynamics across the many-body localization transition	Prasad Y., Theory Division, Saha	Physical Sciences	Physical Review B	2022	0	481
Origin of the Griffiths phase and correlation with the magnetic phase transition in the nanocrystalline manganite La _{0.4} (Ca _{0.55} Sr _{0.5}) _{0.6} MnO ₃	Saha S., Centre for Research in N	Physical Sciences	Physical Review B	2022	4	481
Nanoparticles can modulate network topological defects during multimodal elastomer formation	Sriramolu K.K., Department of Ci	Chemical Sciences	Physical Chemistry Chemical Physics	2022	0	272
Carbon-Supported Ag Nanoparticle Aerogel for Electrocatalytic Hydrogenation of 5-(Hydroxymethyl)furfural to 2,5-Hexanedione Under Acidic Conditions	Panigrahy S., School of Chemical	Chemical Sciences	ACS Applied Nano Materials	2022	3	64
Pattern of an Evaporated Colloidal Droplet on a Porous Membrane Dictated by Competitive Processes of Flow and Absorption	Kumar A., Solid State Physics Div	Physical Sciences	Langmuir	2022	0	359
Clinical Dose Preparation of [¹⁷⁷ Lu]-DOTA-Pertuzumab Using Medium Specific Activity [¹⁷⁷ Lu]-LuCl ₃ for Radioimmunotherapy of Breast and Epithelial Ovarian Cancers, with HER2 Receptor Overexpression	Menon S.R., Health Physics Divis	Medical and Health Sciences	Cancer Biotherapy and Radiopharmaceuticals	2022	0	66
A Facile Strategy for Preparation of Yttrium-90 Therapeutic Sources for Radionuclide Therapy	Mukherjee A., Radiopharmaceut	Chemical Sciences	Cancer Biotherapy and Radiopharmaceuticals	2022	0	66
Reproductive factors and gall-bladder cancer, and the effect of common genetic variants on these associations: A case-control study in India	Mhatre S., Section of Molecular	Medical and Health Sciences	International Journal of Epidemiology	2022	0	232
Electron beam acceleration using Colliding pulses injection in parabolic plasma channel	Phadte D., Laser Physics Applicat	Engineering Sciences	Optik	2022	3	92
Effect of Hydrogen isotopes on Delayed Hydride Cracking Behavior of Zr-2.5Nb Pressure Tube Material	Bind A.K., Mechanical Metallurg	Engineering Sciences	Transactions of the Indian Institute of Metals	2022	0	39
Greenish-yellow emission from rare-earth free Li ⁺ doped zinc vanadate phosphor	Chauhan V., Department of Phys	Physical Sciences	Results in Physics	2022	5	83
Weighted inequalities for multilinear fractional operators in Dunkl setting	Mukherjee S., School of Mathem	Mathematical Sciences	Journal of Pseudo-Differential Operators and Applications	2022	0	16
Thermo-physical properties and heat transfer potential of novel silica-ethylene glycol mono nanofluid: Experiments and multi-layer perceptron (MLP) modelling	Mukherjee S., Thermal Research	Engineering Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	5	187
Novel approach for tuning micellar characteristics and rheology of a sulfate-free anionic surfactant sodium cocoyl glycinate	Raiput G., School of Engineering	Physical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	1	187
Molybdenum sulfo-selenides grown on surface engineered vertically aligned graphitic petal arrays for solid-state supercapacitors	Namsheer K., Centre for Nano a	Physical Sciences	Journal of Energy Storage	2022	7	81
Entanglement witnessing by arbitrarily many independent observers recycling a local quantum shared state	Srivastava C., Harish-Chandra Re	Physical Sciences	Physical Review A	2022	5	281
Experimental Study of Mass Transfer of Iodine Vapor from Air in Sodium Hydroxide Solution in a Packed Column	Krishnan U., Nuclear Recycle Bos	Engineering Sciences	Industrial and Engineering Chemistry Research	2022	1	246
Second-line therapy in testicular germ cell tumours: results from a tertiary cancer care centre in India	Joshi A., Department of Medical	Medical and Health Sciences	ecancermedicallscience	2022	0	42
Treatment pattern and outcomes in de novo T790M-mutated non-small cell lung cancer	Panda G.S., Tata Memorial Hosp	Medical and Health Sciences	ecancermedicallscience	2022	4	42
Small cell carcinoma of the oesophagus: experience of an Indian Tertiary Cancer Centre	Panda G.S., Department of Medi	Medical and Health Sciences	ecancermedicallscience	2022	0	42
Hydrogen bond mediated conversion of benzenenitriles and arylacetoneitriles to amides: an "on/in-water" reaction strategy	Choudhury S.S., School of Chemi	Chemical Sciences	Green Chemistry	2022	5	255
Single-Source-Derived Nitrogen-Doped Soft Carbons for Application as Anode for Sodium-Ion Storage	Mishra R., School of Chemical Sc	Chemical Sciences	Energy and Fuels	2022	3	209
ALK-positive advanced non-small cell lung cancer patients with poor performance status: Outcomes in a real-world scenario	Singh A., Medical Oncology, Tata	Medical and Health Sciences	ecancermedicallscience	2022	1	42

Structural characterization of Au/Cr bilayer thin films using combined X-ray reflectivity and grazing incidence X-ray fluorescence measurements	Alam M.A., Synchrotrons Utilizat	Physical Sciences	Surface and Interface Analysis	2022	2	96
Understanding the surface wave characteristics using 2D particle-in-cell simulation and deep neural network	Mishra R., Centre of Plasma Phys	Physical Sciences	Physics of Plasmas	2022	1	169
Germanium Hydride Catalyzed Selective Hydroboration and Cyanosilylation of Ketones	Khuntia A.P., School of Chemical	Chemical Sciences	European Journal of Inorganic Chemistry	2022	4	143
Evaluation of gliotoxin phytotoxicity and gliotoxin producing Trichoderma virens for the suppression of damping off of tomato	Jayalakshmi R., Department of P	Life Sciences	Journal of Biological Control	2022	2	113
Nematic confined phases in the U(1) quantum link model on a triangular lattice: Near-term quantum computations of string dynamics on a chip	Banerjee D., Saha Institute of Nu	Physical Sciences	Physical Review Research	2022	4	53
A method to prevail false positive responses due to excess cations and viscous nature of Radiopharmaceuticals in Limulus Amebocyte Lysate Gel Clot test	Mitra A., Medical Cyclotron Facil	Life Sciences	Asia Oceania Journal of Nuclear Medicine and Biology	2022	0	4
High-performance aqueous sodium-ion/sulfur battery using elemental sulfur	Kumar M., Department of Chem	Physical Sciences	Journal of Materials Chemistry A	2022	1	276
Morphology-Tuned Pt3Ge Accelerates Water Dissociation to Industrial-Standard Hydrogen Production over a wide pH Range	Mondal S., New Chemistry Unit,	Physical Sciences	Advanced Materials	2022	7	605
Temperature induced phase transformation in Co	Sewak R., Saha Institute of Nucl	Physical Sciences	Scientific Reports	2022	0	282
Comparative Study of Cold Electron Emission from 2D Ti3C2TxMXene Nanosheets with Respect to its Precursor Ti3SiC2MAX Phase	Kiran N.U., Academy of Scientific	Physical Sciences	ACS Applied Electronic Materials	2022	9	16
Inclusive, prompt and non-prompt J/ψ production at midrapidity in p-Pb collisions at √sNN = 5.02 TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Journal of High Energy Physics	2022	2	247
ZIF-90: PSM Assisted Acid Resistance, Accelerated Sequestration and Selective Sensing of Actinides	Tripathi S., Material Chemistry a	Chemical Sciences	Surfaces and Interfaces	2022	3	49
Evaluation of cerium-zirconium mixed oxides for separation of 125Sb from radioactive liquid waste	Thakur D.A., Nuclear Recycle Bo	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	0	73
Enhanced reversible hydrogen storage efficiency of zirconium-decorated biphenylene monolayer: A computational study	Mane P., Seismology Division, Bh	Physical Sciences	Energy Storage	2022	8	81
Charmonium suppression in ultra-relativistic proton-proton collisions at LHC energies: a hint for QGP in small systems	Singh C.R., Department of Physic	Physical Sciences	European Physical Journal C	2022	1	188
Signals for vector-like leptons in an S3-symmetric 2HDM at ILC	Chakraborty I., Department of Ph	Physical Sciences	European Physical Journal C	2022	1	188
Evaluation of Virucidal Efficacy of Cold Plasma on Bacteriophage Inside a Three-Layered Sterilization Chamber	Nagar V., Food Technology Divisi	Engineering Sciences	Plasma Chemistry and Plasma Processing	2022	2	72
Real-time density feedback control in ADITYA-U Tokamak	Patel K., Institute for Plasma Res	Physical Sciences	Journal of Instrumentation	2022	2	85
Adsorption behavior of diatomic gases with defected hexagonal boron nitride nanosheet: A DFT study	Datta J., Analytical Chemistry Div	Chemical Sciences	Materials Today Communications	2022	1	42
Investigation of long term stability of W/B4C multilayer structures	Rao P.N., Synchrotrons Utilizati	Physical Sciences	Thin Solid Films	2022	0	206
DDQ in mechanochemical C-N coupling reactions	Bera S.K., School of Chemical Sci	Chemical Sciences	Beilstein Journal of Organic Chemistry	2022	4	78
Molecular and Biochemical Analysis of Duplicated Cytosolic CuZn Superoxide Dismutases of Rice and in silico Analysis in Plants	Sanval R.P., Molecular Biology Div	Life Sciences	Frontiers in Plant Science	2022	1	187
Evaluation of three methods of static contact angle measurements for TiO2nanofluid droplets during evaporation	Wickilil S., Department of Piped	Physical Sciences	Physics of Fluids	2022	0	195
Gas phase Elemental abundances in Molecular cloudS (GEMS): VI. A sulphur journey across star-forming regions: study of thioformaldehyde emission	Espigues G., Observatorio Astro	Physical Sciences	Astronomy and Astrophysics	2022	5	120
Complex Powers of L-functions and Integers Without Small Prime Factors	Chakraborty K., Harish-Chandra I	Mathematical Sciences	Mediterranean Journal of Mathematics	2022	0	35
Experimental investigation on sodium compatibility of magnesia during corium relocation in SFR for core catcher application	Kumar Shukla P., Homi Bhabha N	Chemical Sciences	Annals of Nuclear Energy	2022	3	77
Enhanced luminescence of tris(carboxylato)uranyl(vi) complexes and energy transfer to Eu(III): a combined spectroscopic and theoretical investigation	Kumar S., Materials Chemistry a	Chemical Sciences	Dalton Transactions	2022	1	203
Systematic study of nuclear effects in p+Al, p+Au, d+Au, and He 3 + Au collisions at sNN = 200 GeV using n0 production	Acharya U.A., Georgia State Univ	Physical Sciences	Physical Review C	2022	4	229
Nature of the anomalous 4/13 fractional quantum Hall effect in graphene	Dora R.K., Institute of Mathemat	Physical Sciences	Physical Review B	2022	4	485
Unraveling the diffusion kinetics of honeycomb structured Na2Ni2TeO6 as a high-potential and stable electrode for sodium-ion batteries	Patil J., Department of Physics, In	Physical Sciences	Journal of Materials Chemistry A	2022	8	270
Probing strangeness canonical ensemble with K-, q(1020) and Ξ- production in Au+Au collisions at sNN=3 GeV	Abdallah M.S., American Univers	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	5	275
Is the hemispheric asymmetry of sunspot cycle caused by an irregular process with long-term memory?	Das R., School of Physical Scienc	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	9	307
Hot electron migration from gold nanoparticle to an organic molecule enhances luminescence and photosensitization properties of a pH activatable plasmon-molecule coupled nanocomposite	Rahman A., Institute of Nano Sci	Chemical Sciences	Journal of Photochemistry and Photobiology A: Chemistry	2022	0	171
Ag implanted TiO2 nanoparticle/nanofibers composites for dye sensitized solar cells applications	Bhullar V., Department of Physic	Physical Sciences	Solar Energy	2022	4	216
Dependence of Cu doping on structure, morphology, magnetic and biomedical properties of ZnO nanostructures	Sarang S.N., Institute of Physics,	Physical Sciences	Materials Today Communications	2022	0	42
The MUSEs+: a prognostic study on 1360 patients with sinonasal cancer undergoing endoscopic surgery-based treatment: *Multi-institutional collaborative Study on Endoscopically treated Sinonasal cancers	Ferrari M., Unit of Otorhinolary	Medical and Health Sciences	European Journal of Cancer	2022	9	235
Clinical and organizational factors associated with mortality during the peak of first COVID-19 wave: the global UNITE-COVID study	Greco M., Department of Biome	Medical and Health Sciences	Intensive Care Medicine	2022	24	219
Plasmon Mediated Electron Transfer and Temperature Dependent Electron-Phonon Scattering in Gold Nanoparticles Embedded in Dielectric Films	Ghorai N., Institute of Nano Scie	Chemical Sciences	ChemPhysChem	2022	3	30
Perineal Repair of a Postoperative Perineal Hernia - Case Report	Kazuma S.M.E., Department of C	Medical and Health Sciences	Annals of African Surgery	2022	0	5
Cost-effective Purification of Membrane Proteins using a Dual-detergent Strategy	Brahma R., Crystallography and I	Life Sciences	Current Protocols	2022	1	11
Design, Simulation and Validation of Fault Tolerant Averaging Algorithm for Clock Synchronization with Custom Time Triggered Deterministic Protocol	Borana A., Bhabha Atomic Resea	Engineering Sciences	IEEE Transactions on Industry Applications	2022	0	217
High-dose salvage re-irradiation in recurrent/progressive adult diffuse gliomas: development of a novel prognostic scoring system; [Nouveau système de notation pronostique pour les gliomes diffus récidivants/progressif traités par réirradiation de rattrapage à haute dose]	Maitre M., Department of Radial	Medical and Health Sciences	Cancer/Radiotherapie	2022	2	33
Caregiver burden in older Indian patients with cancer- Experience from a tertiary care center	Menon N., Department of Medic	Life Sciences	Journal of Geriatric Oncology	2022	2	48
Tetra-coordinated boron-appended zinc(II)-salen: a highly selective fluorescence-based sensor for Sm3+ ions via sensitization	Nayak P., School of Chemical Sci	Chemical Sciences	Materials Advances	2022	3	28
Coherent pion production in neutrino (anti-neutrino)-nucleus interaction	Soagarwal H., Nuclear Physics Div	Physical Sciences	Nuclear Physics A	2022	0	176
Application of nanohydroxyapatite-polysaccharide based biomaterial for bone cell mineralization in tissue engineering	Singh A., School of Biotechnolog	Life Sciences	Materials Today Communications	2022	3	42

Neutral to charged kaon yield fluctuations in Pb – Pb collisions at sNN=2.76 TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	2	275
Electroweak phase transition in the Z 3-invariant NMSSM: Implications of LHC and Dark matter searches and prospects of detecting the gravitational waves	Chatterjee A., Department of Ph	Physical Sciences	Journal of High Energy Physics	2022	4	247
Epigenetic regulation of Fructose-1,6-bisphosphatase 1 by host transcription factor Speckled 110 kDa during hepatitis B virus infection	Sengupta I., Biophysics and Struc	Life Sciences	FEBS Journal	2022	4	222
Covariance analysis and measurements of photon and neutron induced nuclear reaction cross sections of gallium isotopes	Ganesapandy T.S., Department o	Physical Sciences	European Physical Journal Plus	2022	4	76
Synthesis, structural, optical, thermal and mechanical properties of dipotassium tetra borate monohydrate single crystal	Dhatchalini M.K., Department o	Chemical Sciences	Journal of Materials Science: Materials in Electronics	2022	0	88
The role of S-layer protein (SlpA) in biofilm-formation of Deinococcus radiodurans	Shukla S.K., Biofouling & Biofilm	Life Sciences	Journal of Applied Microbiology	2022	0	7
Wormholes and holography: an introduction	Kundu A., Theory Division, Saha	Physical Sciences	European Physical Journal C	2022	10	188
Collective Structures in 116Sn	Shabir Dar, Variable Energy Cycl	Engineering Sciences	Physics of Particles and Nuclei	2022	0	39
Simultaneous conjugacy classes as combinatorial invariants of finite groups	Kaur D., Indian Institute of Techn	Mathematical Sciences	Communications in Algebra	2022	0	66
Vanadium(IV) coordination complexes with excellent biological activities: a synthetic, characterization, and density functional theory approach	Sharma S., Department of Chem	Chemical Sciences	Journal of Coordination Chemistry	2022	1	55
UV and γ -radiation induced molecular changes for rapid lipid accumulation in Chlorella sorokiniana	Sinsh R.D., Nuclear Agriculture a	Life Sciences	Biomass and Bioenergy	2022	4	199
Sodium-ion batteries: Chemistry of biomass derived disordered carbon in carbonate and ether-based electrolytes	Bhawana K., Department of Ene	Medical and Health Sciences	Electrochimica Acta	2022	14	263
Positron annihilation spectroscopic study of intrinsic and ion-irradiation induced vacancy defects in Zr-containing ODS steels with and without Al	Mohan S., Material Science Group	Physical Sciences	Journal of Alloys and Compounds	2022	0	200
Indirect detection of Cosmological Constant from interacting open quantum system	Banerjee S., Indian Institute of T	Physical Sciences	Annals of Physics	2022	1	112
Genesis, evolution, speciation and fluid-mineral equilibrium study of an unexplored geothermal area in Northeast Himalaya, India	Chatterjee S., Isotope and Radial	Chemical Sciences	Geothermics	2022	9	86
Linking Atmospheric Chemistry of the Hot Jupiter HD 209458b to Its Formation Location through Infrared Transmission and Emission Spectra	Dash S., Department of Physics,	Physical Sciences	Astrophysical Journal	2022	8	462
Effect of Laser re-melting on the microstructure of High Entropy Alloys	Chakraborty P., Materials Scienc	Engineering Sciences	Materials Letters	2022	1	164
Multiplexing: An Efficient Way of Genetic Monitoring of Laboratory Mice using Microsatellite Markers	Naseem A., Jamia Millia Islami	Life Sciences	Agricultural Science Digest	2022	0	4
Non-invasive monitoring of segregated phases in a biogas plant: An ultrasonic approach	Mukherjee D., Control Instrume	Engineering Sciences	Results in Engineering	2022	2	24
Contrasting magnetic properties of polymorphic TbPt3	Mondal S., Condensed Matter Ph	Physical Sciences	Journal of Alloys and Compounds	2022	2	200
VGM based ductile damage parameter for fracture prediction in Mod. 9Cr–1Mo steel	Krishnan S.A., Materials Develop	Engineering Sciences	International Journal of Pressure Vessels and Piping	2022	0	87
Beam based diagnostic and four dimensional transverse emittance measurement using solenoid scan for 100 keV thermionic electron gun at VECC, Kolkata	Dechoudhury S., Variable Energy	Physical Sciences	Journal of Instrumentation	2022	0	85
Influence of sodium salts on the phase and gelation behaviour of T1107 to be used as proposed polymer gel electrolyte	Chakrabarti C., School of Science	Physical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	0	187
Quantum speed limits for information and coherence	Mohan B., Harish-Chandra Resea	Physical Sciences	New Journal of Physics	2022	14	109
Effect of gamma radiation processing on the quality characteristics of anthocyanin rich ethnic rice cultivars	Singh K.S., Department of Life Sc	Life Sciences	Applied Food Research	2022	1	7
Determination of uranium and plutonium in mixed oxide samples by X-ray methods and their comparison with potentiometry	Bootharajan M., Materials Chem	Chemical Sciences	Spectrochimica Acta - Part B Atomic Spectroscopy	2022	2	124
Effect of Nozzle Diameter on Quenching Behavior of Simulant Material CaO-Fe2O3 Under Bottom Flooding Conditions	Jatav S.K., Malaviya National Inst	Engineering Sciences	Nuclear Technology	2022	0	17
Prognostic Value of Radiological Extranodal Extension Detected by Computed Tomography for Predicting Outcomes in Patients With Locally Advanced Head and Neck Squamous Cell Cancer Treated With Radical Concurrent Chemoradiotherapy	Mahajan A., Department of Radi	Medical and Health Sciences	Frontiers in Oncology	2022	2	121
Interplay of interactions for different pathways of the fractal aggregation of nanoparticles	Kumar S., Solid State Physics Div	Physical Sciences	Chemical Physics Letters	2022	3	248
Scattering Amplitudes: Celestial and Carrollian	Bagchi A., Indian Institute of Tec	Physical Sciences	Physical Review Letters	2022	26	674
Application of CFD model for passive autocatalytic recombiners to formulate an empirical correlation for integral containment analysis	Shukla V., Bhabha Atomic Resea	Engineering Sciences	Nuclear Engineering and Technology	2022	1	51
Growth Kinetics Monitoring of Gram-Negative Pathogenic Microbes Using Raman Spectroscopy	Saikia D., Department of Bioscie	Life Sciences	Applied Spectroscopy	2022	2	110
Physical, structural and spectroscopic studies of Al2O3-B2O3-Sm2O3 scintillating glass doped with heavy metal oxides	Bansal K., Department of Physic	Physical Sciences	Journal of Luminescence	2022	3	126
Plakophilin3 loss leads to an increase in autophagy and radio-resistance	Chaudhary N., Cell and Tumor Bi	Medical and Health Sciences	Biochemical and Biophysical Research Communications	2022	0	282
On comparison of creep damage behaviour in two variants of titanium added 14Cr-15Ni stainless steel	Ruban R., Department of Mecha	Engineering Sciences	Engineering Failure Analysis	2022	0	92
Minimally invasive, "en-bloc" seminal vesicle excision for locally advanced rectal adenocarcinoma: surgical technique and short-term outcomes	Desouza A., Department of Surg	Medical and Health Sciences	ANZ Journal of Surgery	2022	1	78
Development of fast steerable launcher for ECRH system	Mistry H., Institute for Plasma Re	Engineering Sciences	Fusion Engineering and Design	2022	0	87
Polyaniline derivatized anion exchange membrane for acid recovery	Nagarale R.K., Electro Membran	Chemical Sciences	Journal of Polymer Research	2022	1	66
Second-line treatment of advanced hepatocellular carcinoma: Time for more individualized treatment options?	Rajappa S., Department of Medi	Medical and Health Sciences	World Journal of Hepatology	2022	0	69
Activation of water in the downstream of low-pressure ammonia plasma discharge	Rathore V., Institute For Plasma	Engineering Sciences	Plasma Research Express	2022	5	9
Assay of an alpha solid waste drum using passive neutron counting	Sivakumar P., Reprocessing Gro	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	0	73
Phase Transitions in the Blume–Capel Model with Trimodal and Gaussian Random Fields	Mukherjee S., School of Physical	Physical Sciences	Journal of Statistical Physics	2022	3	115
Tuning Network Connectivity of Silicate and Sodium Borosilicate Glasses by TiO2 for Enhanced Chemical Durability: Molecular Dynamics Simulation Investigations	Sahu P., Chemical Engineering D	Chemical Sciences	Langmuir	2022	2	310
A Rationally Designed Bimetallic Platinum (II)-Ferrocene Antitumor Agent Induces Non-Apoptotic Cell Death and Exerts in Vivo Efficacy	Gadre S., Medicinal Chemistry ar	Life Sciences	Chemistry - A European Journal	2022	4	261
Defining Essential Childhood Cancer Medicines to Inform Prioritization and Access: Results From an International, Cross-Sectional Survey	Denburg A.E., Division of Haema	Medical and Health Sciences	JCO global oncology	2022	3	33
Eosin-Y/Cu(OAc)2-catalyzed aerobic oxidative coupling reactions of glycine esters in the dark	Chowdhury R., Bio-Organic Divis	Chemical Sciences	Organic and Biomolecular Chemistry	2022	1	140

Structural and magnetic asymmetry at the interfaces of MgO/FeCoB/MgO trilayer: Precise study under x-ray standing wave conditions	Jamal M.S., UGC-DAE Consortium	Physical Sciences	Journal of Applied Physics	2022	2	341
Displaced neutrino jets at the LHC	Cottin G., Departamento de Ciencias	Physical Sciences	Journal of High Energy Physics	2022	4	247
Finite-size effects in the diffusion dynamics of a glass-forming binary mixture with large size ratio	Vaibhav V., The Institute of Materials	Physical Sciences	Journal of Chemical Physics	2022	1	379
Estimation of spin and mass of the black hole in MAXI J1348-630 from the soft state using NICER and NuSTAR observations	Kumar R., Astrophysical Sciences	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	6	357
Metal-organic framework (MOF)-derived plate-shaped Co ₅₁ 097 nanoparticles for an improved hydrogen evolution reaction	Sahu N., School of Chemical Sciences	Chemical Sciences	Dalton Transactions	2022	1	203
Secondary Nucleation-Triggered Physical Cross-Links and Tunable Stiffness in Seeded Supramolecular Hydrogels	Laishram R., New Chemistry Unit	Physical Sciences	Journal of the American Chemical Society	2022	11	644
Degenerate skyrmionic states in synthetic antiferromagnets	Bhukta M., Laboratory for Nanotechnology	Physical Sciences	Nanotechnology	2022	0	238
Achieving tunable luminescence in rare earth free IRMOF-3 through post synthetic modifications by judicious choice of organic linker	Sravani V.V., Homi Bhabha National Institute	Chemical Sciences	Optical Materials	2022	3	113
A solvent extraction-based procedure for removal of ⁴⁶ Ca impurity from reactor produced ⁴⁵ CaCl ₂ for its potential use in bone pain palliation	Chakravarty R., Radiopharmaceuticals	Chemical Sciences	Applied Radiation and Isotopes	2022	1	85
Protonation of Phosphonocarboxylates in Aqueous Medium: An Experimental and Theoretical Investigation	Dumpala R.M.R., Radiochemistry	Chemical Sciences	Journal of Chemical and Engineering Data	2022	2	148
Type I-E CRISPR-Cas System as a Defense System in <i>Saccharomyces cerevisiae</i>	Bindal G., Applied Genomics Section	Life Sciences	mSphere	2022	0	58
Fish-mouth opening of an ammonia cracker tube of Alloy 625	Singh J.B., Mechanical Metallurgy	Engineering Sciences	Engineering Failure Analysis	2022	0	92
Novel use of selectivity of resonance Raman spectroscopy to study polytypism and mixed to pure phase conversion in individual InAs NWs on laser irradiation	Gupta V.K., Raman Spectroscopy	Physical Sciences	Applied Surface Science	2022	0	319
Performance investigation of ultra-high pressure ratio cryogenic turbopumpers for helium liquefaction system	Jadhav M.M., Cryo-Technology Division	Engineering Sciences	Cryogenics	2022	0	67
An arbitrary-order continuous sliding mode control technique for nonlinear PWR-type nuclear power plants	Surjagade P.V., School of Built Environment	Engineering Sciences	Progress in Nuclear Energy	2022	1	74
L-Histidine with nitric acid: A comparison of crystal structures and Hirshfeld surfaces analysis	Chitra R., Solid State Physics Division	Physical Sciences	Journal of Molecular Structure	2022	0	117
Transition metal substituted MoS ₂ /WS ₂ van der Waals heterostructure for realization of dilute magnetic semiconductors	Kumar Mallik S., Laboratory for Nanotechnology	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	3	187
Deformation and damage assessment in type 316 LN stainless steel weld joint under isothermal and thermomechanical cyclic loading	Suresh Kumar T., Homi Bhabha National Institute	Engineering Sciences	Materials Science and Engineering: A	2022	2	267
A-site cation influence on the conduction band of lead bromide perovskites	Man G.J., Condensed Matter Physics	Physical Sciences	Nature Communications	2022	7	466
Magnetic phase transition and magneto-elastic coupling in Fe _{1-x} Cr _{2-x} Se ₄ (x = 0.0 - 0.50)	Singh V., School of Physics, India Institute of Technology	Physical Sciences	Materials Research Bulletin	2022	1	124
Laser cluster interaction in ambient magnetic fields for accelerating electrons in two stages without external injection	Swain K., Institute for Plasma Research	Physical Sciences	Scientific Reports	2022	0	292
Study of interface reaction in a B4C/Cr mirror at elevated temperature using soft X-ray reflectivity	Modi M.H., Soft X-ray Applications	Physical Sciences	Journal of Synchrotron Radiation	2022	2	108
Strain induced bandgap engineering in multiferric CuO nanoparticles: Competing micro-strain and geometrical size in nanometer scales	Sahoo P., Department of Physics	Chemical Sciences	Materials Letters	2022	1	164
Dimer stilbene, a reverseratal analogue exhibits synergy with antibiotics that target protein synthesis in eradicating <i>Staphylococcus aureus</i> infection	Singh D., Bio-Organic Division, Biological Sciences	Life Sciences	Biochimie	2022	2	148
Page curves and bath deformations	Caceres E., Theory Group, Department of Physics	Physical Sciences	SciPost Physics Core	2022	10	11
A CFD based approach to assess the effect of environmental parameters on decay product-aerosol attachment coefficient	Agarwal T.K., Homi Bhabha National Institute	Physical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	1	73
Microbiological assessment of spent nuclear fuel pools: An in-perspective review	Karley D., Biofouling Thermal Ecology	Life Sciences	Journal of Environmental Chemical Engineering	2022	4	107
Cost-effective synthesis of NiO nanoparticles and realization of highly selective NO ₂ sensors	Sharma P., Chemistry Division, Biological Sciences	Chemical Sciences	Applied Physics A: Materials Science and Processing	2022	3	158
Nonlinear magnetoelectric effect in atomic vapor and its application to precision radio-frequency magnetometry	Sahoo S.S., National Institute of Technology	Physical Sciences	Physical Review A	2022	1	281
Perioperative provider safety in the pandemic: Development, implementation and evaluation of an adjunct COVID-19 Surgical Patient Checklist	Starr N.E., Department of Surgery	Medical and Health Sciences	Anaesthesia and Intensive Care	2022	0	68
Performance testing of the liquid nitrogen cooled sorption cryopump for application in SST-1 Tokamak	Gupta V., Institute for Plasma Research	Physical Sciences	Fusion Engineering and Design	2022	1	87
Estimating quantum coherence by noncommutativity of any observable and its incoherent part	Ray T., Harish-Chandra Research Institute	Physical Sciences	Physical Review A	2022	0	281
Edge biasing and its impact on the edge and SOL turbulence	Shankar V., Institute for Plasma Research	Physical Sciences	Nuclear Fusion	2022	2	132
Pan-Asian adapted ESMO Clinical Practice Guidelines for the diagnosis, treatment and follow-up of patients with prostate cancer	Kanesvaran R., Division of Medical Sciences	Medical and Health Sciences	ESMO Open	2022	5	49
A comparative in silico study to detect the effect of food-additives on metabolic protein and its perturbations compensated by osmolytes	Dutta S., Integrated Biophysics and Bioinformatics	Life Sciences	International Journal of Biological Macromolecules	2022	0	166
Nonvanishing of kernel functions and Poincaré series for Jacobi forms	Pandey S., School of Mathematics	Mathematical Sciences	Journal of Mathematical Analysis and Applications	2022	0	155
Synthesis of 2-Substituted indoles by Pd-Catalyzed Reductive Cyclization of 1-Halo-2-nitrobenzene with Alkynes	Lokolkar M.S., Department of Chemistry	Chemical Sciences	European Journal of Organic Chemistry	2022	3	167
Probing the electronic and local structure of Sr _{2-x} La _x CoNbO ₆ using near-edge and extended x-ray absorption fine structures	Kumar A., Department of Physics	Physical Sciences	Physical Review B	2022	5	481
Study of shape change in T = 1 triplet 70Se, 70Br and 70Kr in microscopic-macroscopic approach	Nayak S.S., Variable Energy Cyclotron Centre	Physical Sciences	International Journal of Modern Physics E	2022	0	56
Enrichment of ¹⁵⁰ Nd for neutrinoless double-beta decay detection	Suryanarayana M.V., Bhabha Atomic Research Centre	Physical Sciences	Scientific Reports	2022	1	282
Conformational Selectivity of Merocyanine on Nanostructured Silver Films: Surface Enhanced Resonance Raman Scattering (SERRS) and Density Functional Theoretical (DFT) Study	Das A., Radiation Photochemistry	Chemical Sciences	Frontiers in Chemistry	2022	3	87
Hypertriton Production in p-Pb Collisions at sNN = 0.2 TeV	Acharya S., Variable Energy Cyclotron Centre	Physical Sciences	Physical Review Letters	2022	5	674
Probing the supramolecular assembly in solid, solution and gel phase in uride based thiazole derivatives and its potential application as iodide ion sensor	Patel A.M., Department of Chemistry	Physical Sciences	Journal of Molecular Liquids	2022	4	150
Efficient quantum state preparation using Stern-Gerlach effect on cold atoms	Singh V., Laser Physics Applications	Physical Sciences	Measurement Science and Technology	2022	1	149
Clinical Profile, Patterns of Care & adherence to Guidelines in Patients with Hepatocellular Carcinoma: Prospective multi-center Study	Shukla A., Department of Gastroenterology	Medical and Health Sciences	Journal of Clinical and Experimental Hepatology	2022	0	45
Water quality assessment using synchrotron-based TXRF	Garg V.K., School of Engineering	Physical Sciences	Water Environment Research	2022	2	81

Polyethylenimine assisted non-monotonic jamming of colloids during evaporation induced assembly and its implication on CO ₂ sorption characteristics	Mehta S., Solid State Physics Div	Physical Sciences	Soft Matter	2022	1	190
Multiwavelength Observations of the Blazar J0521+211 during an Elevated TeV Gamma-Ray State	Adams C.B., Physics Department	Physical Sciences	Astrophysical Journal	2022	4	462
Anaplastic Cancer: Our Experience	Kanteti A.P.K., Department of M	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	0	21
Evaluation of compositional micro-homogeneity in MOX fuels using lab based μ -XRF spectrometry	Sanyal K., Fuel Chemistry Divisio	Chemical Sciences	Journal of Analytical Atomic Spectrometry	2022	2	133
Thermal stability of the magnetic moment in amorphous carbon thin film - An experimental and ab-initio study	Thakur B., UGC DAE Consortium	Physical Sciences	Diamond and Related Materials	2022	0	121
Shear viscosity of hadronic matter at finite temperature and magnetic field	Ghosh R., Theory Division, Saha I	Physical Sciences	Physical Review D	2022	7	378
Novel cinnamic acid analogues: synthesis of aminotroponyl acrylates by Pd(ii)-catalysed C(sp ²)-H olefination	Jena C.K., National Institute of Sc	Chemical Sciences	Chemical Communications	2022	1	363
A multi-institutional evaluation of small field output factor determination following the recommendations of IAEA/AAPM TRS-483	Lechner W., Department of Radi	Medical and Health Sciences	Medical Physics	2022	0	199
Neurocognitive function and survival in children with average-risk medulloblastoma treated with hyperfractionated radiation therapy alone: Long-term mature outcomes of a prospective study	Gupta T., Department of Radiati	Medical and Health Sciences	Neuro-Oncology Practice	2022	0	23
Recent status and challenges in multifunctional electrocatalysis based on 2D MXenes	Ponnada S., Sustainable Mater	Physical Sciences	Catalysis Science and Technology	2022	10	136
Critical quenches, OTOCs and early-time chaos	Das S., Department of Physics, I	Physical Sciences	Journal of High Energy Physics	2022	3	247
B-mode forecast of CMB-Bherat	Adak D., Inter-University Centre	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	5	357
Anomalous inverse spin Hall effect in perpendicularly magnetized Co/Pd multilayers	Yang M., National Laboratory of	Physical Sciences	Physical Review B	2022	1	481
Realizing Low-Temperature Charge-Transfer-Type Insulating Ground State in Strained V ₂ O ₃ Thin Film	Sahoo S., UGC DAE Consortium f	Physical Sciences	ACS Applied Electronic Materials	2022	1	36
Effects of starch-rich or fat-rich diets on metabolism, adiposity, and glycemia in immune-biased, C57BL/6 and BALB/c mice	Mukherjee R., School of Biologic	Life Sciences	Journal of Nutritional Biochemistry	2022	0	147
Hinge-mode dynamics of periodically driven higher-order Weyl semimetals	Ghosh S., School of Physical Scie	Physical Sciences	Physical Review B	2022	4	481
Magnetic proximity induced valley-contrasting quantum anomalous Hall effect in a graphene-CrBr ₃ van der Waals heterostructure	Bora M., Department of Physics,	Physical Sciences	Physical Review B	2022	5	481
Effect of O/N doping in CNT aerogel film on their nucleic acid hybridization detection ability as electrochemical impedance biosensor	Prakash J., Materials Group, Bha	Engineering Sciences	Materials Today Communications	2022	0	42
Electrochemical noise studies on the effect of nitrogen on the pitting corrosion of stainless steel using wavelet analysis	Upadhyay N., Corrosion Science	Chemical Sciences	Corrosion Engineering Science and Technology	2022	0	46
Determination of Al occupancy and local structure for β -[Al(Ga) _{1-x}]ZrO ₃ alloys across nearly full composition range from Rietveld analysis	Bhattacharjee J., Synchrotrons U	Physical Sciences	Applied Physics Letters	2022	3	466
Microscopic origin of room-temperature ferromagnetism in the double perovskite Sr ₂ FeO ₆	Pandey S.K., Department of Con	Physical Sciences	Physical Review B	2022	0	481
Characterization and investigation of the unique plasma behavior caused by variable driving frequencies in the formation of cold atmospheric plasma	Misra V.C., Bhabha Atomic Resea	Physical Sciences	Current Applied Physics	2022	4	95
Metal-ceramic diffusion barrier nanocomposite coatings on nickel based superalloys for corrosion and high temperature oxidation resistance	Kirubakaran A.M.K., Centre for M	Chemical Sciences	Ceramics International	2022	1	146
Room-temperature surface multiferroicity in Y ₂ NiMnO ₆ nanorods	Mishra S., School of Materials Sc	Physical Sciences	Physical Review B	2022	0	481
Do radiative losses determine the characteristic emission of the blazar Mrk 421?	Baheija C., Department Of Phys	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	1	357
Anomalous time of flight behavior of fast ions in laser produced aluminum plasma	Arora G., Institute for Plasma Re	Physical Sciences	Physics of Plasmas	2022	0	169
Electrically Modulated Wavelength-Selective Photodetection Enabled by MoS ₂ /ZnO Heterostructure	Kumawat K.L., Materials Researc	Physical Sciences	Physical Review Applied	2022	7	88
"Diffuse Large B-Cell Lymphoma in the Elderly: Real-World Outcomes From a Developing Country"	Jobanputra K., Department of M	Medical and Health Sciences	Clinical Lymphoma, Myeloma and Leukemia	2022	1	60
Mn _{2-x} HoxSn ₅ : A mixed quaternary metal chalcogenide system with an antiferromagnetic ordering	Dash T.S., Solid State and Mater	Physical Sciences	Journal of Solid State Chemistry	2022	1	154
Multiwavelength study of blazar 4C + 01.02 during its long-Term flaring activity in 2014-2017	Malik Z., Department of Physics,	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	2	357
A novel ANN-CFD model for simulating flow in a vortex mixer	Sarkar S., Chemical Engineering I	Engineering Sciences	Chemical Engineering Science	2022	3	203
Multi-Species Compressible Solver for Non-Continuum Flow Through a Micro-Channel	Nagendra S.K.G., Homi Bhabha N	Engineering Sciences	International Journal of Computational Fluid Dynamics	2022	0	46
Thermal Stratification in a Pool With Submerged Heater Under Low Frequency Excitation	Chauhan S.P., Homi Bhabha Natl	Engineering Sciences	Journal of Nuclear Engineering and Radiation Science	2022	2	14
Synthesis of Ni doped iron oxide colloidal nanocrystal clusters using poly(N-isopropylacrylamide) templates for efficient recovery of cefixime and methylene blue	Anushree C., Corrosion Science	Physical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	2	187
Experimental Investigation of Melt Coolability Behavior in an Ex-Vessel Core Catcher: The Effect of Flooding Time	Ganesh V., Reactor Engineering I	Engineering Sciences	Journal of Nuclear Engineering and Radiation Science	2022	1	14
Performance of different duct-nozzle arrangement on heat removal from a nuclear fuel storage vault under regular operating conditions	Mishra V.K., Indira Gandhi Centri	Engineering Sciences	Nuclear Engineering and Design	2022	2	115
Positioning of the coil and reduction of the first harmonic of the magnetic field in the superconducting cyclotron using support link forces	Pradhan J., Variable Energy Cycl	Engineering Sciences	Nuclear Instruments and Methods in Physics Research, Section A: A	2022	0	176
Red Cell Distribution Width and High Grade Serous Ovarian Cancer: Prognostic Marker?	Kattepur A.K., Department of Su	Medical and Health Sciences	Indian Journal of Gynecologic Oncology	2022	0	5
Thermal and mechanical properties of Th-30Zr alloy	Kumar U., Post Irradiation Exami	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	0	73
Room-temperature cost-effective in-situ grown MAPbBr ₃ crystals and their characterization towards optoelectronic devices	Ramya K., Department of Physic	Physical Sciences	Materials Science and Engineering: B	2022	2	129
Leveraging nuclear power-to-green hydrogen production potential in India: A country perspective	Bhattacharyya R., Applied System	Engineering Sciences	International Journal of Energy Research	2022	4	110
Organoaluminum Catalyzed Guanylation and Hydroboration Reactions of Carbodiimides	Nayak D.K., School of Chemical S	Chemical Sciences	Zeitschrift für Anorganische und Allgemeine Chemie	2022	1	70
Feed phase salting agent prevails the absence of organic phase ligand: A sustainable extraction process for Cu(II)/Am(III) in an undiluted phosphonium ionic liquid	Rout A., Materials Chemistry & M	Chemical Sciences	Journal of Molecular Liquids	2022	2	150
Enhanced hydrogen adsorption in alkali metal based copper hexacyanoferrate Prussian blue analogue nanocubes	Bhatt P., Solid State Physics Divi	Chemical Sciences	Journal of Power Sources	2022	4	339
Facile synthesis and phase stability of Cu-based Na ₂ Cu(SO ₄) ₂ ·xH ₂ O (x = 0-2) sulfate minerals as conversion type battery electrodes	Singh S., Faraday Materials Labor	Physical Sciences	Dalton Transactions	2022	1	203
Semi-analytical theory of emission and transport in a LAPE-based diode	Biswas D., Bhabha Atomic Resea	Physical Sciences	Physics of Plasmas	2022	1	169

Prompt and non-prompt J/ψ production cross sections at midrapidity in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV	Acharya S., Variable Energy Cyclotron Centre	Physical Sciences	Journal of High Energy Physics	2022	6	247
Comparative study on charging-up of single, double and triple Gas Electron Multipliers (GEM)	Kumar V., Applied Nuclear Physics Division, BARC	Physical Sciences	Journal of Instrumentation	2022	0	85
Forward rapidity J/ψ production as a function of charged-particle multiplicity in pp collisions at $\sqrt{s} = 5.02$ and 13 TeV	Acharya S., Variable Energy Cyclotron Centre	Physical Sciences	Journal of High Energy Physics	2022	5	247
Investigating charm production and fragmentation via azimuthal correlations of prompt D mesons with charged particles in pp collisions at $\sqrt{s} = 13$ TeV	Acharya S., Variable Energy Cyclotron Centre	Physical Sciences	European Physical Journal C	2022	4	188
Potential tribological and antibacterial benefits of pulsed laser-deposited zirconia thin film on Ti6Al4V bio-alloy	Kedia S., Laser & Plasma Technology Division, BARC	Life Sciences	Applied Physics A: Materials Science and Processing	2022	0	158
Convolution algebra of superoperators and nonseparability witnesses for quantum operations	Sohail S., Harish-Chandra Research Institute	Physical Sciences	Journal of Physics A: Mathematical and Theoretical	2022	0	140
Measurement of $\psi(2S)$ nuclear modification at backward and forward rapidity in p+p, p+Al, and p+Au collisions at $\sqrt{s_{NN}} = 200$ GeV	Acharya U.A., Georgia State University	Physical Sciences	Physical Review C	2022	3	229
Antiviral Activity of Zinc Oxide Nanoparticles and Tetrapods Against the Hepatitis E and Hepatitis C Viruses	Gupta J., Virology Laboratory, VIT Vellore	Physical Sciences	Frontiers in Microbiology	2022	14	201
Multiplicity dependence of charged-particle jet production in pp collisions at $\sqrt{s} = 13$ TeV	Acharya S., Variable Energy Cyclotron Centre	Physical Sciences	European Physical Journal C	2022	3	188
Scope of Combating Zoonotic Infections in India-Learnings from Covid-19	Pant L., Food Technology Division, BARC	Life Sciences	Indian Veterinary Journal	2022	0	19
Characterization of ion-induced microstructural changes in oxygen irradiated Ti-6Al-4V	Dev S., Variable Energy Cyclotron Centre	Engineering Sciences	Radiation Effects and Defects in Solids	2022	0	33
Geology and colour of Kupalo crater on Ceres	Hernandez J., Max Planck Institute for Solar System Research	Physical Sciences	Planetary and Space Science	2022	0	100
Measurement uncertainty assessment for potentiometric determination of trace anionic impurities in graphite post-ultrasonic extraction: A bottom-up approach	Parab H., Analytical Chemistry Division, BARC	Chemical Sciences	Journal of Chemical Metrology	2022	0	5
Evaluation of filtration effectiveness of various types of facemasks following with different sterilization methods	Kumar A., Radiological and Environmental Sciences Division, BARC	Physical Sciences	Journal of Industrial Textiles	2022	5	49
Cross-sections for production of ^{115m}In by quasi-monoenergetic neutrons within 7-20 MeV	Hingu A., Department of Physics, VIT Vellore	Physical Sciences	Radiation Physics and Chemistry	2022	1	69
Investigating the sources of low-energy events in a SuperCDMS-HV detector	Albakry M.F., Department of Physics, University of Illinois at Chicago	Physical Sciences	Physical Review D	2022	2	378
Decay studies in the $A \sim 225$ Po-Fr region from the DESPEC campaign at GSI in 2021	Polettini M., Dipartimento di Fisica, University of Pisa	Physical Sciences	Nuovo Cimento della Società Italiana di Fisica C	2022	1	27
Elevation of TRPV1 expression on T-cells during experimental immunosuppression	Kumar P.S., School of Biological Sciences, VIT Vellore	Life Sciences	Journal of Biosciences	2022	2	80
Synthesis, characterization, and thermoluminescence-based high-dose neutron and gamma dosimetry study of AlSiB9: Mn, Li nanophosphor	Sen M., Radiation Safety System, BARC	Chemical Sciences	Journal of the American Ceramic Society	2022	3	212
A novel active veto prototype detector with an inner target for improved rare event searches	Chaudhuri M., School of Physics, VIT Vellore	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A	2022	0	176
Temperature dependent partially compensated to nearly fully compensated magnetic state in half-metallic full Heusler alloy, $\text{Mn}_1.2\text{Fe}_1.1\text{BiV}_0.62\text{Ni}$	Ghanathe M., Solid State Physics Division, BARC	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	0	107
Study of high-temperature electrical conductivity and thermoelectric performance in $\text{Mg}_{2-x}\text{Sn}_{1-x}\text{Sb}_x$ ($0 \leq x \leq 1$) intermetallic alloys	Rao S.P., Department of Physics, VIT Vellore	Physical Sciences	Journal of Materials Science: Materials in Electronics	2022	0	88
Filament organization of the bacterial actin MreB is dependent on the nucleotide state	Pande V., Indian Institute of Science	Life Sciences	Journal of Cell Biology	2022	7	405
Novel permeable material "yttrium decorated zeolite templated carbon" for hydrogen storage: Perspectives from density functional theory	Kundu A., Seismology Division, BARC	Physical Sciences	International Journal of Hydrogen Energy	2022	9	248
Effect of growing environments on the minerals and proximate composition of urbeans (<i>Vigna mungo</i> L. Hepper)	Sen Gupta D., Division of Crop Nutrition, BARC	Life Sciences	Journal of Food Composition and Analysis	2022	2	130
Parameterized Complexity of Maximum Edge Colorable Subgraph	Agrawal A., Indian Institute of Technology Gandhinagar	Mathematical Sciences	Algorithmica	2022	1	78
Improved photodetection capabilities of Ag@CeO2 Nanorod composite array using GLAD technique	Devi N.M., Department of Electronics and Communication Engineering, VIT Vellore	Physical Sciences	Ceramics International	2022	2	140
A study to explore the appropriateness of dosing regimen of vancomycin in critically ill patients in a tertiary care unit of India	Belavagi D., Dept of Pharmacology, VIT Vellore	Life Sciences	GERMS	2022	0	15
Scintillation light detection in the 6-m drift-length ProtoDUNE Dual Phase liquid argon TPC	Abed Abud A., CERN, The European Organization for Nuclear Research	Physical Sciences	European Physical Journal C	2022	3	188
Measurement of atmospheric muon angular distribution using a portable setup of liquid scintillator bars	Sagarwal H., Nuclear Physics Division, BARC	Physical Sciences	Journal of Cosmology and Astroparticle Physics	2022	2	141
Research studies on screening tests	Aggarwal R., Jawaharlal Institute of Postgraduate Medical Education and Research	Medical and Health Sciences	Perspectives in Clinical Research	2022	0	16
Interlocking dendritic fibrous nanosilica into microgranules by polyethylenimine assisted assembly: in situ neutron diffraction and CO2 capture studies	Bahadur J., Solid State Physics Division, BARC	Physical Sciences	Materials Advances	2022	1	28
A polydiacetylene (PDA) impregnated poly(vinylidene fluoride) (PVDF) membrane for sensitive detection of fluoride ions	Thakuri A., Department of Chemistry, VIT Vellore	Chemical Sciences	Analyst	2022	1	169
Ionization yield measurement in a germanium CDMSlite detector using photo-neutron sources	Albakry M.F., Department of Physics, University of Illinois at Chicago	Physical Sciences	Physical Review D	2022	3	378
Next-to-soft-virtual resummed prediction for pseudoscalar Higgs boson production at NNLO+NLL	Bhattacharya A., Saha Institute of Nuclear Physics	Physical Sciences	Physical Review D	2022	4	378
Impact of the First Wave of COVID-19 Pandemic on Radiotherapy Practice at Tata Memorial Centre, Mumbai: A Longitudinal Cohort Study	Tibdewal A., Department of Radiation Oncology, Tata Memorial Hospital	Medical and Health Sciences	JCO global oncology	2022	1	33
Impact of Molecular Tumor Board on the Clinical Management of Patients With Cancer	Behel V., Department of Medical Oncology, Tata Memorial Hospital	Medical and Health Sciences	JCO global oncology	2022	2	33
STUDY OF EFFECTIVENESS OF SHELTERING FROM RADIATION EXPOSURE DUE TO ACCIDENTAL RELEASE OF RADIOACTIVITY	Singh A.K., Health Physics Division, BARC	Physical Sciences	Radiation Protection Dosimetry	2022	0	77
Effect of manufacturing route on thermal creep behaviour of Zr-2.5Nb pressure tube alloy used in Indian PHWR	Gopalan A., Mechanical Metallurgy Division, BARC	Engineering Sciences	Journal of Nuclear Materials	2022	4	157
A facile synthesis of shell-shaped GeOx (x \geq 2) islands by metal-assisted chemical etching of Ge and their optoelectronic properties	Dutta A., SUNAG Laboratory, Indian Institute of Space Science and Technology	Physical Sciences	Optical Materials	2022	0	113
Characterization of the cyclic deformation behavior of simulated HAZs and other constituent microstructural regions of P91 steel weldment	Mariappan K., Materials Development Division, BARC	Engineering Sciences	International Journal of Fatigue	2022	4	145
Cooperative pentavalent pnictogen bonding versus dominant hydrogen bonding in POCB3-diethylether dimer characterized using matrix isolation infrared spectroscopy and ab initio computations	Sruthi P.K., Homi Bhabha National Institute	Chemical Sciences	Journal of Molecular Spectroscopy	2022	1	72
Discovery of a new species of Euphyctis (Anura: Dicroglossidae) from the western coastal plains of peninsular India	Dinesh K.P., Zoological Survey of India	Chemical Sciences	Zootaxa	2022	2	97
Metastatic epithelioid trophoblastic tumor in retroperitoneal nodes in a case of regressed germ cell tumor of testis: An extremely rare occurrence	Sakhdeo U., Departments of Surgery and Pathology, Tata Memorial Hospital	Medical and Health Sciences	Indian Journal of Urology	2022	0	37
Centrality and transverse-momentum dependence of higher-order flow harmonics of identified hadrons in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV	Abdallah M.S., American University	Physical Sciences	Physical Review C	2022	4	229
Model-independent constraints on non-unitary neutrino mixing from high-precision long-baseline experiments	Agarwalla S.K., Institute of Physics, University of Hyderabad	Physical Sciences	Journal of High Energy Physics	2022	4	247

Sensitivity of surface roughness parameters on the simulation of boundary layer winds over a complex terrain site Kaiga in western India	Aravind A., Homi Bhabha Nat	Physical Sciences	Meteorology and Atmospheric Physics	2022	1	69
Mutation induced phenotypic variation for yield traits in sorghum [Sorghum bicolor (L.) Moench]	Surashe S.M., Department of Ag	Life Sciences	Electronic Journal of Plant Breeding	2022	1	13
Impact of sodium glucose cotransporter-2 inhibitors on liver steatosis/fibrosis/inflammation and redox balance in non-alcoholic fatty liver disease	Bellanti F., Department of Medic	Life Sciences	World Journal of Gastroenterology	2022	6	188
Solid-state performance of a meta-GGA screened hybrid density functional constructed from Pauli kinetic enhancement factor dependent semilocal exchange hole	Jana S., Department of Chemistr	Physical Sciences	Journal of Chemical Physics	2022	3	379
Resilience in primary metabolism contributes to salt stress adaptation in Sesuvium portulacastrum (L.)	Kulkarni J., Department of Botan	Life Sciences	Plant Growth Regulation	2022	1	156
ARID2 suppression promotes tumor progression and upregulates cytokeratin 8, 18 and β -4 integrin expression in TP53-mutated tobacco-related oral cancer and has prognostic implications	Shukla P., Sarin Lab, Advanced C	Medical and Health Sciences	Cancer Gene Therapy	2022	3	95
Beam test performance of a prototype module with Short Strip ASICs for the CMS HL-LHC tracker upgrade	Adam W., Institut für Hochener	Applied Systems Analysis	Journal of Instrumentation	2022	1	85
Optimization of Process Variables for the Catalytic Reduction of U(VI) over Pt/SiO ₂ using Hydrazine as Reducing Agent – Design of Experiments Approach	Sareddy R.R., Re-processing Grou	Chemical Sciences	Chemistry Select	2022	1	51
Thick target neutron spectral yield and dose measurements with natC (p, n) system at intermediate proton energies between 8–20 MeV	Paul S., Health Physics Division, E	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A	2022	2	176
Utilizing the Retrograde Flow of Internal Mammary Vessels as a Donor Pedicle	Jaiswal D., Department of Plastic	Medical and Health Sciences	Indian Journal of Plastic Surgery	2022	0	37
Effective Maxwell–Stefan diffusion model of near ambient air drying validated with experiments on Thomson seedless grapes	Kulkarni A.H., Institute of Chemi	Engineering Sciences	Canadian Journal of Chemical Engineering	2022	0	75
The effect of orientation and pore size on nano mechanical behaviour of Ag thin films: a comparison between experiment and atomistic simulation	Panda A.K., Metallurgy Materials	Engineering Sciences	Philosophical Magazine	2022	0	106
Synthesis and uranium adsorption studies of UiO-66 (Ce) based metal organic frameworks from aqueous solutions	Gumber N., Fuel Chemistry Divis	Chemical Sciences	Microporous and Mesoporous Materials	2022	10	179
Numerical estimation of droplet motion on linear wettability gradient surface in microgravity environment	Baghel V., Institute for Plasma Re	Physical Sciences	Materials Today Communications	2022	0	42
Pluronic based neutral-ionic binary micellar surfactant systems for solubilizing the cationic methylene blue dye	Karunanithi P., Department of Cl	Chemical Sciences	Chemical Physics Impact	2022	4	6
Predictive analysis of gas hold-up in bubble column using machine learning methods	Hazare S.R., Department of Cher	Engineering Sciences	Chemical Engineering Research and Design	2022	5	117
Learning curves for minimally invasive total mesorectal excision beyond the competency phase – a risk-adjusted cumulative sum analysis of 1000 rectal resections	Kazi M., Department of Surgical	Medical and Health Sciences	Colorectal Disease	2022	2	105
Tunable room temperature magnetic skyrmions in centrosymmetric kagome magnet Mn ₄ G ₂ Zn	Chakrabarty D., School of Physic	Physical Sciences	Communications Physics	2022	3	41
Enhanced charge storage performance of MXene based all-solid-state supercapacitor with vertical graphene arrays as the current collector	Patra A., Centre for Nano and Ma	Physical Sciences	Journal of Energy Storage	2022	12	81
Tracing thermal and non-thermal water circulations in shear zones of Eastern Ghats Mobile Belt zone, Eastern India: inferences on sustainability of geothermal resources	Keesari T., Isotope Hydrology Se	Chemical Sciences	Journal of Hydrology	2022	4	280
A faster growth of perturbations in an early matter dominated epoch: Primordial black holes and gravitational waves	Das S., Indian Institute Of Astrop	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	3	307
Direct knockdown of phospho-PTM targets mediated by TRIM21 can improve personalized treatment in breast cancer	Dev P., Molecular Functional Im	Life Sciences	Cellular Oncology	2022	3	53
Dynamics of nanoscale triangular features on Ge surfaces	Hans S., Institute for Plasma Res	Physical Sciences	Nanotechnology	2022	3	230
Modern Radiotherapy Technology: Obstacles and Opportunities to Access in Low- and Middle-Income Countries	Maitre P., Department of Radiat	Medical and Health Sciences	ICO global oncology	2022	7	33
An Ab-initio study of the y decorated 2D holey graphyne for hydrogen storage application	Singh M., Department of Physics	Physical Sciences	Nanotechnology	2022	7	230
Multimodal Applications of Zinc Gallate-Based Persistent Luminescent Nanoparticles in Cancer Treatment: Tumor Margining, Diagnosis, and Boron Neutron Capture Therapy	Sharma K.S., Chemistry Division,	Chemical Sciences	ACS Applied Bio Materials	2022	2	43
Cancer Medicines: What Is Essential and Affordable in India?	Sengar M., Department of Medic	Medical and Health Sciences	ICO global oncology	2022	1	33
Parallel algorithm for synthetic image generation with application to tokamak plasma diagnostics	Delwadia K., Group in Computat	Physical Sciences	Concurrency and Computation: Practice and Experience	2022	0	75
Development of CFD based model for sodium flow boiling in narrow channel akin to SFR fuel subchannel towards high void fraction regimes	Tom S., Homi Bhabha National Ir	Engineering Sciences	Nuclear Engineering and Design	2022	2	115
Micro-Environment mapping of mole fraction inspired contrasting charged aqueous gemini micelles: A drug solubilization/release study	Patel B., Applied Chemistry Deps	Physical Sciences	Journal of Molecular Liquids	2022	1	150
Modelling and experimental investigations of composition-dependent heat and mass transfer during Cu-Ni alloy nanoparticle synthesis in a transferred arc helium plasma	Dharmale G.D., Institute For Plas	Physical Sciences	Journal of Physics D: Applied Physics	2022	1	230
MB2M-N-IBT, a Novel Small Molecule, Restricts Chikungunya Virus Infection by Targeting nsP2 Protease Activity in Vitro, in Vivo, and Ex Vivo	De S., Institute of Life Sciences, U	Life Sciences	Antimicrobial Agents and Chemotherapy	2022	2	280
Double glassy states and large spontaneous and conventional exchange bias in La _{1.5} Ca _{0.5} CoFeO ₆ ferrimagnetic double perovskite	Singh P., Department of Physics,	Physical Sciences	Journal of Physics Condensed Matter	2022	1	244
A phenomenological unified model for uniaxial and multiaxial LCF and ratcheting: from specimen to pressurized straight nuclear piping of SA333 C-Mn-steel	Pandev V., Mechanical Engineer	Engineering Sciences	Journal of the Brazilian Society of Mechanical Sciences and Engineer	2022	0	51
Development and characterization of ester modified endosporeic guar gum/polyvinyl alcohol (PVA) blown film: Approach towards greener packaging	Priyadarsini P., CIPET: School for	Life Sciences	Industrial Crops and Products	2022	3	158
Impact of local timescales in a cellular automata model of excitable media	Moltra P., Institute for Plasma Re	Physical Sciences	Chaos, Solitons and Fractals	2022	0	160
Experimental estimation of CO concentration in LN ₂ cooled CW CO laser operating with CO ₂ laser gas mixture	Dwivedi T., Laser and Plasma Tec	Physical Sciences	Laser Physics Letters	2022	0	78
Molecular events confirming antimutagenicity to abscisic acid derived from a floral honey establishing its functional relevance	Saxena S., Food Technology Divi	Life Sciences	Heliyon	2022	0	69
Influence of interface states on built-in electric field and diamagnetic-Landau energy shifts in asymmetric modulation-doped InGaAs/GaAs QWs	Vashisht G., Semiconductor Mat	Physical Sciences	Journal of Physics D: Applied Physics	2022	0	220
The evolution of rock friction is more sensitive to slip than elapsed time, even at near-zero slip rates	Bhattacharya P., School of Earth	Physical Sciences	Proceedings of the National Academy of Sciences of the United Sta	2022	5	488
Human testis-specific Y-encoded protein-like protein S is a histone H3/H4-specific chaperone that facilitates histone deposition in vitro	Dalvi S., Structural Biology and B	Life Sciences	Journal of Biological Chemistry	2022	0	544
Logarithmic corrections to the entropy function of black holes in the open ensemble	Ghosh A., School of Basic Scienc	Physical Sciences	Nuclear Physics B	2022	3	262
Understanding the conformational changes in the influenza B M2 ion channel at various protonation states	Chowdhury U.D., School of Chem	Chemical Sciences	Biophysical Chemistry	2022	0	108
Altering of the Electric and Magnetic Dipole Transition Probability of Eu ³⁺ in YPO ₄ Lattice by Codoping of K ⁺ Ion: Potential Materials for Imaging and Heating	Perala R.S., Department of Cherr	Chemical Sciences	Industrial and Engineering Chemistry Research	2022	0	245
Prussian blue analogue (PBA) derived cobalt telluride nano-granules: an efficient catalyst for energy conversion and storage	Tripathy R.K., School of Chemica	Chemical Sciences	Sustainable Energy and Fuels	2022	2	62
Discovery of superconducting quaternary Y-Ni-B-C system, T _c ~ 12 K, and a brief review of superconducting and magnetic properties of RNi ₂ B ₂ C	Mazumdar C., Condensed Matte	Physical Sciences	Superconductor Science and Technology	2022	0	112

Inter-molecular interaction kinetics: Tale of photon anti-bunching and bunching in fluorescence correlation spectroscopy (FCS)	Sarkar A., Radiation & Photochem	Chemical Sciences	Methods and Applications in Fluorescence	2022	1	31
Magnetic properties in soft (CoFeB)/hard (Co) bilayers deposited under different Ar gas pressure	Nayak S., Laboratory for Nanom	Physical Sciences	Journal of Physics Condensed Matter	2022	0	244
Hydrogen bonding with polonium	Tulsyan K.D., School of Chemica	Chemical Sciences	Physical Chemistry Chemical Physics	2022	3	272
Heteroleptic Cu(I) bis-dimine complexes as sensitizers in dye-sensitized solar cells (DSSCs): on some factors affecting intramolecular charge transfer	Mishra R., Department of Chemi	Physical Sciences	Physical Chemistry Chemical Physics	2022	5	272
Investigation of charge collection layers for thin film rhenium sulfide solar cells	Phani Chandra N.V., Departmen	Physical Sciences	Applied Surface Science	2022	1	219
²⁸ Si(p,γ) ²⁸ Si nuclear reaction in the detection and depth profiling of Si in materials	Sunitha Y., National Centre for C	Chemical Sciences	Nuclear Instruments and Methods in Physics Research, Section B: E	2022	1	127
Experimental evidence of a pump-wavefront-induced Stern-Gerlach-like splitting in optical parametric generators	Mondal A., School of Physical Sc	Physical Sciences	Optics Letters	2022	0	288
A meticulous study on the interaction of bile salts with star block copolymeric micelles	Chakrabarti C., School of Science	Physical Sciences	Journal of Molecular Liquids	2022	4	150
One-dimensional Rashba states with unconventional spin texture in Bi chains	Sheverdyayeva P.M., Istituto di St	Physical Sciences	Physical Review B	2022	0	481
Stability of (100) dislocations formed in W collision cascades	Bhardwaj U., Computational Ana	Physical Sciences	Journal of Nuclear Materials	2022	1	489
Sensing a Change in Size of a Circular Tokamak Plasma Using a Single Magnetic Probe: a Theoretical Approach	Aich S., Institute for Plasma Rese	Physical Sciences	Plasma and Fusion Research	2022	0	21
Gold nanoparticle based colorimetric and Raman "turn-off" sensing of melamine in milk	Das A., Radiation & Photochem	Chemical Sciences	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2022	4	187
Enhancing dropwise condensation of vapor from moist air over a copper substrate by temperature-controlled chemical etching	Lata Singh P., Department of Me	Physical Sciences	Thermal Science and Engineering Progress	2022	1	48
An Analysis of the Aerosol Lifecycle Over India: COALESC Intercomparison of Three General Circulation Models	Bhattacharya A., The Interdiscipl	Physical Sciences	Journal of Geophysical Research: Atmospheres	2022	3	116
A compact full Stokes polarimeter	Chaturvedi M., Raja Ramanna Ce	Physical Sciences	Optik	2022	0	92
Stokes traction on an active particle	Turk G., Damp, Centre for Math	Physical Sciences	Physical Review E	2022	0	317
A molecular rotor based ratiometric detection scheme for aluminium ions in water	Pandey S.P., Amity Institute of B	Chemical Sciences	Journal of Photochemistry and Photobiology A: Chemistry	2022	2	171
Gender discrimination in surgical oncology: An in-house appraisal	Pandrowala S., Department of S	Medical and Health Sciences	Frontiers in Surgery	2022	0	17
In-situ nano-engineering of amorphous MoS ₂ nanosheets with carbon dots for enhanced supercapacitor performances	Panda P., School of Chemical Sci	Chemical Sciences	International Journal of Energy Research	2022	3	110
Path integrals on $sl(2, \mathbb{R})$ orbits	Ashok S.K., The Institute of Mat	Physical Sciences	Journal of Physics A: Mathematical and Theoretical	2022	1	160
Hydrothermal treatment as a means of improving the solubility and enhancing the diaCEST MRI contrast efficiency	Pandey S., School of Chemical Sc	Chemical Sciences	New Journal of Chemistry	2022	0	111
Influence of high temperature sodium exposure on microstructure and material properties of AISI 440C stainless steel	Kumar Krovvidi S.C.S.P., Indira G	Engineering Sciences	International Journal of Materials Engineering Innovation	2022	0	14
Amplification of AIE-effect of tetraphenylethylene on solid support: Formation of a sensitive fluorescent nansensor for turn-on detection of Cu ²⁺ and successive sensing of ascorbate ions	Uttam Gawas R., Department of	Chemical Sciences	Inorganica Chimica Acta	2022	2	105
Superconducting properties of Nb, NbN, and MoN thin films grown on topological insulator Bi ₂ Se ₃ /GaSe: A comparative study	Abhirami S., Materials Science G	Physical Sciences	Superconductor Science and Technology	2022	1	112
Targeting hydrophobicity in biofilm-associated protein (Bap) as a novel antibiofilm strategy against Staphylococcus aureus biofilm	Shukla S.K., Biofouling & Biofilm	Life Sciences	Biophysical Chemistry	2022	0	103
Diversity Analysis in Horse Gram [Macrotyloma uniflorum (Lam.) Verdc.] Mutants	Pushpavazhini V., Department of	Life Sciences	Legume Research	2022	0	18
Unravelling the Surface-State Assisted Ultrafast Charge Transfer Dynamics of Graphene Quantum Dot-Based Nanohybrids via Transient Absorption Spectroscopy	Sebastian D., Department of App	Chemical Sciences	Journal of Physical Chemistry C	2022	3	123
Intravenous fluid therapy in perioperative and critical care setting-Knowledge test and practice: An international cross-sectional survey	Nasa P., NMC Specialty Hospital,	Medical and Health Sciences	Journal of Critical Care	2022	2	86
Generation of seismic hazard maps for Assam region and incorporation of the site effects	Bandyopadhyay S., Homi Bhabha	Engineering Sciences	Acta Geophysica	2022	1	42
Mathematical model to study the keyhole formation in pulsed Nd:YAG laser welding of SS 316L material and its experimental verification	Bhardwaj V., Laser Technology D	Physical Sciences	Journal of Laser Applications	2022	0	61
Aspects of long range spin-triplet correlations in superconductor/ferromagnet hetero-structures	Bhatia E., NY CREATES/SUNY Pol	Physical Sciences	Superconductor Science and Technology	2022	2	112
Tetra germanium nonaselenide enwrapped with reduced graphene oxide and functionalized carbon nanotubes (Ge ₄ Se ₉ /RGO)/FCNTs hybrids for improved energy storage performances	Das J.K., School of Chemical Scie	Chemical Sciences	Dalton Transactions	2022	3	203
Is first-order relativistic hydrodynamics in a general frame stable and causal for arbitrary interactions?	Biswas R., School of Physical Scie	Physical Sciences	Physical Review D	2022	5	378
Tailoring structural and magnetic viz. static and dynamic properties of soft magnetic CoFeB film with Ta incorporation	Vardhan H., Amity Center for Spl	Physical Sciences	Journal of Alloys and Compounds	2022	3	206
G-Quadruplex selectivity and cytotoxicity of a guanine-encapsulated porphyrin-cyclodextrin conjugate	Alexander A., Centre for Nanosc	Chemical Sciences	International Journal of Biological Macromolecules	2022	6	166
Effect of hydration on intermolecular interactions in tetrabutylammonium chloride based deep eutectic solvents	Panda D.K., School of Chemical S	Chemical Sciences	Journal of Molecular Liquids	2022	1	150
Macrophage induced ERK-TGF-β1 signaling in MCF7 breast cancer cells result in reversible cancer stem cell plasticity and epithelial mesenchymal transition	Kundu P., Immunology Section, I	Life Sciences	Biochimica et Biophysica Acta - General Subjects	2022	1	175
Catechol sensor based on pristine and transition metal embedded holey graphene: a first-principles density functional theory study	Lakshmy S., International and Int	Physical Sciences	Journal of Materials Chemistry B	2022	9	128
Insight into the spectroscopic behavior of Dy ³⁺ -substituted and Li ⁺ charge-compensated molybdate phosphors	Nayak P., Department of Physico	Chemical Sciences	Journal of the American Ceramic Society	2022	2	212
Structure-property correlation study of gamma irradiated BaO-PbO-K ₂ O-B ₂ O ₃ -SiO ₂ glasses	Nandi P., Glass & Advanced Mat	Chemical Sciences	Journal of Non-Crystalline Solids	2022	1	118
Studies on the variation of structural and thermodynamic properties of charge coupled substituted Na _x Eu _{1-x} Ca _{10-2x} (PO ₄) ₆ F ₂ solid solutions (x = 0.5–2.0)	Das P., Product Development Di	Chemical Sciences	Journal of Alloys and Compounds	2022	1	200
On the Commutants of Generators of q-Deformed Araki-Woods von Neumann Algebras	Bikram P., School of Mathematic	Mathematical Sciences	Publications of the Research Institute for Mathematical Sciences	2022	2	35
First principles DFT analysis on the diffusion kinetics of hydrogen isotopes through bcc iron (Fe): Role of temperature and surface coverage	Boda A., Chemical Engineering D	Chemical Sciences	International Journal of Hydrogen Energy	2022	2	248
Neoadjuvant Chemoradiotherapy and Surgery for Esophageal Squamous Cell Carcinoma Versus Definitive Chemoradiotherapy With Salvage Surgery as Needed: The Study Protocol for the Randomized Controlled NEEDS Trial	Nilsson M., Division of Surgery, C	Medical and Health Sciences	Frontiers in Oncology	2022	4	121
Machine learning guided study of composition-coefficient of thermal expansion relationship in oxide glasses using a sparse dataset	Tripathi B.M., Powder Metallur	Engineering Sciences	Materials Today: Proceedings	2022	0	16
Bandgap tunability and local structure of Mg ₂ Ni-xO (0 ≤ x ≤ 1) thin films grown by RF magnetron co-sputtering	Chetia S.K., Oxide Nano-Electron	Physical Sciences	Applied Physics A: Materials Science and Processing	2022	5	118

Safety and Feasibility of AnaConDa™ to Deliver Inhaled Isoflurane for Sedation in Patients Undergoing Elective Postoperative Mechanical Ventilation: A Prospective, Open-label, Interventional Trial (INSTINCT Study)	Kulkarni A.P., Division of Critical	Medical and Health Sciences	Indian Journal of Critical Care Medicine	2022	3	37
Influence of carbon nanotube on interfacial and mechanical behavior of carbon fiber reinforced epoxy laminated composites	Jain V., Biomaterials and Multisc	Engineering Sciences	Polymer Composites	2022	10	94
New meromorphic CFTs from cosets	Das A., Centre for Particle Theor	Physical Sciences	Journal of High Energy Physics	2022	2	247
Prosthetic management of a midfacial defect	Dholam K.P., Department of Der	Medical and Health Sciences	Journal of Cancer Research and Therapeutics	2022	0	47
In-situ CsPbBr ₃ architecture engineered in electrospun fibers and its ultrafast charge-transfer dynamics	Babu K.J., Institute of Nano Scie	Chemical Sciences	Materials Advances	2022	1	28
Wide-Band-Gap p-Type GaCrO ₃ :Ni Semiconductor: A Hole Transport Material	Jangir R., Raja Ramanna Centre f	Engineering Sciences	ACS Applied Energy Materials	2022	0	71
Comparative Study of Exciton Dynamics in 9,9'-Bianthracene Nanoaggregates and Thin Films: Observation of Singlet-Singlet Annihilation-Mediated Triplet Exciton Formation	Manna B., Radiation & Photoche	Chemical Sciences	Journal of Physical Chemistry C	2022	2	333
Structural, optical spectroscopy and energy transfer features of Tb ³⁺ -activated (Y, Gd) ³⁺ nanophosphors for UV-based LEDs	Nanda S.S., Department of Physic	Chemical Sciences	New Journal of Chemistry	2022	4	131
Modulation of intrinsic defects in vertically grown ZnO nanorods by ion implantation	Sikdar M.K., School of Physical Sc	Physical Sciences	Physical Chemistry Chemical Physics	2022	1	272
Ce doping induced trapping states and local electronic structure modifications in SrZnO ₂ nanophosphors	Manju N., Advanced Materials R	Physical Sciences	Journal of Materials Chemistry C	2022	1	166
Effect of monovalent salts on molecular interactions of globular protein (BSA) above its isoelectric point	Pandit S., Soft Nano Laboratory,	Physical Sciences	Chemical Physics Letters	2022	3	248
Growth of ultra-thin Cobalt on fullerene (C60) thin-film: in-situ investigation under UHV conditions	Kaushik S., UGC-DAE Consortiu	Physical Sciences	Materials Science and Engineering: B	2022	1	129
Integrated X-ray photoelectron spectroscopy and DFT investigations of DNA adsorption on nanostructured SiO ₂ surface	Mishra I., Institute of Physics, Bh	Physical Sciences	Chemical Physics	2022	1	129
Synthesis of novel indole-oxadiazole molecular hybrids by a regioselective C-3 sulfenylation of indole with 1,3,4-oxadiazole-2-thiols using iodine-dimethyl sulfoxide and their anticancer properties	Dutta K., Bio-organic Division, Bh	Life Sciences	Journal of Heterocyclic Chemistry	2022	3	63
Molecular precursor-mediated facile synthesis of photo-responsive stibnite Sb ₂ S ₃ nanorods and tetrahedrite Cu ₁₂ Sb ₄ S ₁₃ nanocrystals	Thomas A., Department of Chemi	Chemical Sciences	Dalton Transactions	2022	2	203
Improved synthesis of noble metal ion infused nickel sulphide for supercapacitor application	Sahoo S., Analytical Chemistry D	Chemical Sciences	Materials Today: Proceedings	2022	0	56
An improved, simple and field-deployable CRISPR-Cas12a assay for the detection of SARS-CoV-2	Misra C.S., Applied Genomics Se	Life Sciences	Journal of Applied Microbiology	2022	2	7
Excitation density dependent carrier dynamics in a monolayer MoS ₂ : Exciton dissociation, formation and bottlenecking	Khatua D.P., Nano Science Labor	Physical Sciences	Micro and Nanostructures	2022	0	4
Submandibular gland in squamous cell carcinoma of the tongue: Can preservation during neck dissection be a pragmatic option?	Joshi K.D., Department of Head &	Medical and Health Sciences	Journal of Cancer Research and Therapeutics	2022	1	47
Advection of accelerated electrons in radio/X-ray knots of AGN jets	Rahman A.A., Department of Ph	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	0	357
Copper electroplating technique for development of HTS current leads bottom joints using MgB ₂ wires	Bairagi N., Institute for Plasma R	Engineering Sciences	Physica C: Superconductivity and Its Applications	2022	1	86
First-principles study of magnetic properties of the transition metal ion-doped methylammonium lead bromide	Moshat S., Variable Energy Cyclo	Physical Sciences	International Journal of Modern Physics B	2022	0	90
Luminescence properties of europium (III)-based metal-organic frameworks: Influence of varied organic linkers	Sravani V.V., Homi Bhabha Natio	Chemical Sciences	Journal of Molecular Structure	2022	1	117
Thermo-fluidic performance of SiO ₂ -ZnO/water hybrid nanofluid on enhancement of heat transport in a tube: Experimental results	Mukherjee S., Thermal Research	Engineering Sciences	International Journal of Thermal Sciences	2022	4	138
Microstructurally informed viscoplastic simulations to optimize manufacturing of a nuclear grade stainless steel	Aashranth B., Metallurgy and Ma	Engineering Sciences	Materials Today Communications	2022	0	42
Short-Range Charge Density Wave and Bandgap Modulation by Au-Implanted Defects in TiSe ₂	Sahoo U.P., School of Physical Sc	Physical Sciences	ACS Applied Electronic Materials	2022	1	36
Tuning of anisotropy in Bi-based high temperature superconducting thin films	Gayathri V., Condensed Matter F	Physical Sciences	Thin Solid Films	2022	2	206
Unusual CO ₂ Adsorption in ZIF-7: Insight from Raman Spectroscopy and Computational Studies	Kamali K., Chemistry and Physic	Chemical Sciences	Inorganic Chemistry	2022	2	249
Fabrication and characterization of sol-gel-based coatings on quartz glass to obtain antireflective effect at 1054 nm for optics of high power Nd:phosphate glass laser	Podder S., Specialty Glass Divisi	Physical Sciences	Bulletin of Materials Science	2022	1	81
Solar-to-supersolar sodium and oxygen absolute abundances for a 'hot Saturn' orbiting a metal-rich star	Nikolov N.K., Space Telescope Sc	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	11	357
Secluded dark matter in gauged B - L model	Bandyopadhyay P., Indian Institu	Physical Sciences	Journal of High Energy Physics	2022	3	247
A novel excitation frequency-controlled cold atmospheric pressure plasma device and its unique discharge behaviour	Ghorui S., Homi Bhabha Natio	Physical Sciences	Pramana - Journal of Physics	2022	4	58
N-C chelated tetraaryl-pyrazole based organoboranes: A new class of aggregation induced enhanced emission materials	Sa S., National Institute of Scie	Chemical Sciences	Dyes and Pigments	2022	1	137
The effect of lipid composition on the dynamics of tau fibrils	Chowdhury U.D., School of Chemi	Chemical Sciences	Proteins: Structure, Function and Bioinformatics	2022	4	178
ANUINDRA: A wide dynamic range FEE ASIC for a silicon-tungsten electromagnetic calorimeter	Mukhopadhyay S., Bhabha Atom	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A	2022	0	176
Studies on tuning surface electronic properties of hydrogenated diamond by oxygen functionalization	Sulthana N.M., Homi Bhabha Nat	Physical Sciences	Diamond and Related Materials	2022	0	121
Structural transitions in mixed Phosphatidylcholine/Pluronic micellar systems and their in vitro therapeutic evaluation for poorly water-soluble drug	Patel H.S., Applied Chemistry De	Physical Sciences	Journal of Molecular Liquids	2022	4	150
A novel α-dosimetry technique using CR-39 detectors with optimized etching and FTIR spectroscopy: A prospective approach towards waste monitoring applications	Paul S., Health Physics Division, I	Physical Sciences	Radiation Physics and Chemistry	2022	1	93
Density Functional Theory Studies on Dimension-Controlled Self-Assemblies from Cadmium Telluride Nanoclusters: Implications for Solar Cell Applications	Chavan K.T., Materials Science G	Physical Sciences	ACS Applied Nano Materials	2022	1	64
Anisotropy and Domain Structure in Nanoscale-Thick MoS ₂ /CoFeB Heterostructures: Implications for Transition Metal Dichalcogenide-Based Thin Films	Thiruvengadam V., Laboratory fo	Physical Sciences	ACS Applied Nano Materials	2022	2	64
Selective electronic excitations in nearly half-metallic Heusler alloy NiFeMnSn - A Raman spectroscopic study	Bera K., School of Nano Science	Physical Sciences	Applied Physics Letters	2022	1	466
Atomically thin 2D photocatalysts for boosted H ₂ production from the perspective of transient absorption spectroscopy	Goswami T., Institute of Nano Sc	Chemical Sciences	Physical Chemistry Chemical Physics	2022	4	272
Identification of sex linked molecular markers in spine gourd (Momordica dioica Roxb.)	Ameen G., Section of Genetics &	Life Sciences	Indian Journal of Genetics and Plant Breeding	2022	1	19
Improvement in white light emission of Dy ³⁺ doped CaMoO ₄ via Zn ²⁺ co-doping	Dixit P., Department of Physics,	Physical Sciences	Methods and Applications in Fluorescence	2022	1	31
Curcumin Accelerates the Lateral Motion of DPPC Membranes	Sharma V.K., Solid State Physic	Physical Sciences	Langmuir	2022	0	399
Microscopic diffusion in cationic vesicles across different phases	Gupta J., Solid State Physics Divi	Physical Sciences	Physical Review Materials	2022	1	59

Evolution of geometric and electronic structures of oxygen-induced superstructures on Mo(110) surface: A LEED, ARPES, and DFT study	Kar A., Surface Physics and Mate	Physical Sciences	Physical Review B	2022	0	481
Physical and monetary asset accounting of mineral resources in India	Padhan D., School of Humanities	Applied Systems Analysis	Resources Policy	2022	2	95
KSOxS0 and KSOx+ femtoscopy in pp collisions at s=5.02 and 13 TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	3	275
Exploring the conformations of Dibutyl Phosphonate (DBP): A matrix isolation infrared spectroscopic and density functional theory studies	Rajani P., Materials Chemistry an	Chemical Sciences	Journal of Molecular Structure	2022	0	117
Structural stability of orthorhombic DyScO3 under extreme conditions of pressure and temperature	Bura N., Pressure, Vacuum & Ultr	Physical Sciences	Physical Review B	2022	3	481
Soft-phonon anharmonicity, floppy modes, and Na diffusion in Na3 FY (Y= S,Se,Te): Ab initio and machine-learned molecular dynamics simulations	Gupta M.K., Solid State Physics C	Physical Sciences	Physical Review B	2022	4	481
Variation in the superconducting properties of Bi1.75Pb0.25Sr2Ca2Cu3O10+δ in proximity with Pr0.5Ca0.5MnO3	Gayathri V., Materials Science Gr	Physical Sciences	Cryogenics	2022	2	67
Suppression of Macrophomina root rot, Fusarium wilt and growth promotion of some pulses by antagonistic rhizobacteria	Manikandan A., Department of /	Life Sciences	Physiological and Molecular Plant Pathology	2022	2	84
Local density of states and particle entanglement in topological quantum fluids	Pu S., School of Physics and Astr	Physical Sciences	Physical Review B	2022	2	481
Stable, triplet ground state BODIPY-TEMPO diradical as a selective turn on fluorescence sensor for intracellular labile iron pool	Pachpatil P.K., Bio Organic Divisi	Chemical Sciences	Sensors and Actuators B: Chemical	2022	0	223
Surfactant mediated suppression of aggregation and excited state ring puckering process in Pyromethene 597-Application in water based dye laser	Sen A., Beam Technology and De	Chemical Sciences	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectros	2022	0	145
SIMSPEC-G: A simple code for the simulation of HPGe detectors for gamma rays up to 1 MeV	Nayak S.S., Variable Energy Cycl	Physical Sciences	Journal of Instrumentation	2022	0	85
Flow synthesis of PVP capped gold nanoparticles in capillary microreactor	Sen N., Chemical Engineering Gro	Chemical Sciences	Chemical Engineering and Processing - Process Intensification	2022	2	119
Exploring the superhydrophilicity of nanosecond laser textured silicon: a Raman analysis	Panda R., Institute for Plasma Rel	Physical Sciences	Applied Optics	2022	0	211
Measurement of mass and total kinetic energy distributions for the C 12 + Lu 175 system	Dhuri S., Nuclear Physics Divisi	Physical Sciences	Physical Review C	2022	1	239
Hydrometallurgical Studies for the Recovery of Rare Earths from Micro-Granite Ore Deposit of Bhatkhera, Rajasthan, India	Karan R., Mineral Processing Divi	Chemical Sciences	Journal of the Geological Society of India	2022	2	53
Unleashing the Mystery of a Treated Case of Medulloblastoma	Ashtekar R.M., Department of R	Medical and Health Sciences	Indian Journal of Radiology and Imaging	2022	0	32
Development and Scale-up of Chemical Process for Conversion of impure Sodium Diuranate to Uranium Peroxide	Rao K.A., Mineral Processing Divi	Chemical Sciences	Journal of the Geological Society of India	2022	0	53
Feasibility study of observing γ-ray emission from high redshift blazars using the MACE telescope	Tolamatti A., Astrophysical Scien	Physical Sciences	Journal of Astrophysics and Astronomy	2022	1	34
From the Atomic Energy Training School to the Homi Bhabha National Institute	Grover R.B., Homi Bhabha Natio	Engineering Sciences	Current Science	2022	0	130
Lattice study of a magnetic contribution to heavy quark momentum diffusion	Banerjee D., Saha Institute of Nu	Physical Sciences	Journal of High Energy Physics	2022	5	247
The "Weekday Effect"—Does It Impact Esophageal Cancer Surgery Outcomes?	Jiwani S., Division of Thoracic S	Medical and Health Sciences	Journal of Gastrointestinal Cancer	2022	0	30
Atomic minerals: journey of India to self-sufficiency	Kain V., Materials Group, Bhabha	Engineering Sciences	Current Science	2022	1	130
The status of nuclear power development in India	Pathak B.C., Nuclear Power Corp	Engineering Sciences	Current Science	2022	1	130
Radiation and radioisotopes for human healthcare applications	Banerjee S., Advanced Centre fo	Life Sciences	Current Science	2022	1	130
Associated production of heavy Higgs bosons with a b b ⁺ pair in the nonholomorphic MSSM and LHC searches	Chattopadhyay U., School of Phy	Physical Sciences	Journal of High Energy Physics	2022	2	247
Evolution of health physics, radiation protection and regulatory framework in India	Kulkarni M.S., Health Physics Div	Physical Sciences	Current Science	2022	0	130
An overview of key enabling technologies for DAE's nuclear programme	Aswal D.K., Bhabha Atomic Rese	Physical Sciences	Current Science	2022	0	130
A journey of materials development illustrated through shape memory alloy and carbon-based materials	Dasgupta K., Materials Group, B	Engineering Sciences	Current Science	2022	0	130
Ion implanted substitutionally dispersed Au in TiO2 nanostructures for efficient and stable dye sensitized solar cells	Bhullar V., Department of Physic	Physical Sciences	Optical Materials	2022	4	113
Recovery of actinides from acidic waste solutions generated in research facilities using adsorption and extraction techniques	Sreenivasulu B., Materials Chemi	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	1	73
Is sex an independent risk factor of in-hospital mortality in patients with burns? A multicentre cohort study from urban India	Moghe D., Department of Gener	Medical and Health Sciences	Burns Open	2022	0	10
Adamantinoma with a Prominent Spindle Cell Component Mimicking Intraosseous Synovial Sarcoma: Clinicopathological Features of Six Tumors	Rekhi B., Department of Patholo	Medical and Health Sciences	International Journal of Surgical Pathology	2022	0	53
Reporting Trends, Practices, and Resource Utilization in Neuroendocrine Tumors of the Prostate Gland: A Survey among Thirty-Nine Genitourinary Pathologists	Mohanty S.K., Department of Pa	Medical and Health Sciences	International Journal of Surgical Pathology	2022	0	53
Model-independent redshift estimation of BL Lac objects through very-high-energy observations	Malik Z., Department of Physics,	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	2	317
Evolution of chemistry programme at DAE	Tyagi A.K., Chemistry Group, Bha	Chemical Sciences	Current Science	2022	0	130
Homi Bhabha and his legacies with specific reference to nuclear and high-energy physics research in independent India	Srivastava D.K., National Institut	Physical Sciences	Current Science	2022	0	130
Numerical estimation of calibration matrices for 241Am measurements using HPGe based in-vivo monitoring system	Charubala C.S., Health Physics D	Physical Sciences	Applied Radiation and Isotopes	2022	0	85
Intelligent inspection technology for cross-country buried petroleum pipelines	Lahiri S.K., Control Instrumentat	Engineering Sciences	Current Science	2022	0	130
An assay procedure to investigate the transformation of toxic heme into inert hemozoin via plasmodial heme detoxification protein	Singh R., Beamline Development	Life Sciences	Biochimica et Biophysica Acta - Proteins and Proteomics	2022	1	159
Yttrium doped covalent triazine frameworks as promising reversible hydrogen storage material: DFT investigations	Kundu A., Seismology Division, B	Physical Sciences	International Journal of Hydrogen Energy	2022	8	248
Pasta properties of the neutron star within effective relativistic mean-field model	Parmar V., School of Physics and	Physical Sciences	Physical Review D	2022	7	378
CMT2A-linked mitochondrial hyperfusion-driving mutant MFN2 perturbs ER-mitochondrial associations and Ca ²⁺ homeostasis	Das R., Biophysics & Structural G	Life Sciences	Biology of the Cell	2022	1	92
Correlated negative magnetization, exchange bias, and electrical properties in La1-xPrxCrO3	Deepak, Solid State Physics Divis	Physical Sciences	Physical Review Materials	2022	1	59
Investigations on ion irradiation induced modifications in Th 5f occupancy in thorfa	Jezadeesan P., Materials Science	Chemical Sciences	Journal of Nuclear Materials	2022	1	157
Role of water structure in alkaline water electrolysis	Guha A., Tata Institute of Funda	Physical Sciences	iScience	2022	5	61

Experimental determination of phase equilibria in the system Fe-Zr (0–100 at.% Zr) by using the "spot" technique, DSC, and XRD	Samanta B., Fuel Chemistry Divis	Chemical Sciences	Calphad: Computer Coupling of Phase Diagrams and Thermochem	2022	1	69
The BRCA2 and CDKN1A-interacting protein (BCCIP) stabilizes stalled replication forks and prevents degradation of nascent DNA	Singh B., Advanced Centre for Tr	Life Sciences	FEBS Letters	2022	0	375
Inferred-variance uncertainty relations in the presence of quantum entanglement	Baghi S., Raymond and Beverly	Physical Sciences	Physical Review A	2022	1	281
Scattering amplitudes and BCFW in $N = 2^+$ theory	Abhishek M., Harish-Chandra Re	Physical Sciences	SciPost Physics	2022	3	52
An Excellent and Fast Anodes for Lithium-Ion Batteries Based on the 1T'-MoTe2Phase Material	Panda M.R., IITB-Monash Resear	Physical Sciences	ACS Applied Energy Materials	2022	2	71
Electronic effects of ligand on the core of tetraorganodistannoxanes	Kushwah N., Chemistry Division,	Chemical Sciences	Polyhedron	2022	0	106
Loss of 2-Cys-Prx affects cellular ultrastructure, disturbs redox poise and impairs photosynthesis in cyanobacteria	Kalwani P., Molecular Biology Div	Life Sciences	Plant Cell and Environment	2022	1	25
Synthesis and characterization of rare-earth doped aluminium phosphate glasses	Barik S.K., Indira Gandhi Centre f	Chemical Sciences	Progress in Nuclear Energy	2022	6	74
BaO-doped silicate and borosilicate glasses for enhanced chemical durability: molecular dynamics simulations based strategy for glass design	Sahu P., Chemical Engineering Di	Chemical Sciences	Molecular Systems Design and Engineering	2022	3	36
Rhodium-Catalyzed Selective C(sp ²)-H Activation/Annulation of tert-Butyl Benzoyleoxy-carbamates with 1,3-Diynes: A One Step Access to Alkynylated Isocoumarins and Bis-isocoumarins	Pati B.V., School of Chemical Sci	Chemical Sciences	Organic Letters	2022	5	252
A study on the effect of residual stresses on hydride assisted crack in Zr-2.5Nb pressure tube material using XFEM	Jha A., Department of Mechanic	Engineering Sciences	Theoretical and Applied Fracture Mechanics	2022	7	71
Distinct Modes of Hidden Structural Dynamics in the Functioning of an Allosteric Polysaccharide Lyase	Dash P., School of Biological Scie	Life Sciences	ACS Central Science	2022	3	115
Synthesis, Characterization, and the N Atom Transfer Reactivity of a Nitridochromium(V) Complex Stabilized by a Corrolato Ligand	Pain T., School of Chemical Scien	Chemical Sciences	ACS Omega	2022	0	77
Spherical Silver Nanocrystals Arranged in a Metastable Square Pattern	Pathak S.S., Department of Chem	Chemical Sciences	ACS Omega	2022	0	77
Mechanistic Approach to Reveal Interaction of Uranyl Ions in Alkyltriphenylphosphonium Bromide-Based Deep Eutectic Solvent	Patil S.M., Fuel Chemistry Divisio	Chemical Sciences	Inorganic Chemistry	2022	0	249
Molecular tumor board-guided treatment of non-small-cell lung cancer with dual driver (ALK and EGFR) alterations	Behel V., Department of Medica	Life Sciences	Cancer Research, Statistics, and Treatment	2022	5	17
Rapid and Precise Uranium Isotopic Screening in Natural Water Using Bis(2-ethylhexyl)phosphoric Acid-Modified Membranes	Goswami P., Fuel Chemistry Divi	Physical Sciences	ACS Applied Polymer Materials	2022	1	36
Correlation between spin-phonon coupling and magneto-electric effects in CoFe2O4/PMN-PT nanocomposite: Raman spectroscopy and XMCD study	Ahlawat A., Laser and Functiona	Physical Sciences	Journal of Materials Science: Materials in Electronics	2022	2	88
Thiolamazines as Heavy-Atom-Free Photosensitizers for Applications in Daylight Photodynamic Therapy: Insights from Ultrafast Excited-State Dynamics	Jena S., School of Chemical Scien	Chemical Sciences	Journal of Physical Chemistry B	2022	3	411
Band gap engineering of the top layer of mica by organized defect formation	Mukherjee J., Ion Beam Develop	Physical Sciences	Surfaces and Interfaces	2022	0	49
Probing the Function of a Li-CO2 Battery with a MXene/Graphene Oxide Composite Cathode Electrocatalyst	Bharti A., Solid State and Structu	Life Sciences	Journal of Physical Chemistry Letters	2022	3	216
An atomistic perspective on the diffusion and permeation of hydrogen and isotopes through an engineered nanoporous silica membrane using molecular dynamics simulations	Sahu P., Chemical Engineering Di	Chemical Sciences	Molecular Systems Design and Engineering	2022	1	36
Self-sustained non-equilibrium co-existence of fluid and solid states in a strongly coupled complex plasma system	Hariprasad M.G., Institute for Pl	Physical Sciences	Scientific Reports	2022	3	280
Nonbenzenoid BODIPY Analogues: Synthesis, Structural Organization, Photophysical Studies, and Cell Internalization of Biocompatible N-Alkyl-Aminotropopyl Difluoroboron (Alkyl-ATB) Complexes	Bhusana Palai B., School of Chem	Chemical Sciences	ACS Omega	2022	1	77
Hysteresis and return point memory in the random-field Blume-Capel model	Aldrin B.E., School of Physical Sci	Physical Sciences	Physical Review E	2022	0	317
Extended dose response of 10B+CR-39 for thermal neutrons using spectrophotometric techniques	Sahoo G.S., Health Physics Divisi	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A: A	2022	2	176
Salivary Raman spectroscopy: Understanding alterations in saliva of tobacco habitués and oral cancer subjects	Hole A., Advanced Centre for Tri	Medical and Health Sciences	Vibrational Spectroscopy	2022	5	86
Experimental evaluation of additively deposited functionally graded material samples- microscopic and spectroscopic analysis of SS-316L/Co-Cr-Mo alloy	Reddy Y.P., Department of Mech	Physical Sciences	AIMS Materials Science	2022	1	25
Magnetism in four-layered Aurivillius Bi5FeTi3O15 at high pressures	Prajapat D., UGC-DAE Consortiu	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	0	187
Synthesis of Hollow Gold Nanoparticles - Impact of Variables on Process Optimization	Damani M., Department of Phar	Chemical Sciences	Journal of Pharmaceutical Sciences	2022	1	186
The effect of gas-density gradient on high-harmonic generation from neon-filled cells using annular and Gaussian laser beams	Ansari A., Laser Plasma Divisio	Physical Sciences	Journal of Physics B: Atomic, Molecular and Optical Physics	2022	0	123
Structural and optical properties of Nd doped LaPO4	Kumar Y., Beamline Developmen	Physical Sciences	Journal of Alloys and Compounds	2022	2	200
Exploring the NA-NI coupled system with high precision correlation techniques at the LHC	Acharya S., Variable Energy Cycl	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	8	375
International Consensus Guidelines for Adjuvant Radiation Therapy for Bladder Cancer After Radical Cystectomy: Update From an IBS Workgroup	Verghote F., Department of Radi	Medical and Health Sciences	Practical Radiation Oncology	2022	2	45
General balance functions of identified charged hadron pairs of (π, K, p) in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	7	375
Optimization of coating parameters for fabrication of robust superhydrophobic (SHP) aluminum and evaluation of corrosion performance in aggressive medium	Rasitha T.P., Corrosion Science a	Physical Sciences	Progress in Organic Coatings	2022	21	123
Load partitioning behavior in a metastable austenitic stainless steel subjected to pre-deformation below and above Md temperature: Experimental and modeling studies	Teena Mouri C., Metallurgy and	Engineering Sciences	Materials Science and Engineering: A	2022	3	267
Regression Derived Staging Model to Predict Overall and Disease Specific Survival in Patients With Major Salivary Gland Carcinomas With Independent External Validation	Ramalingam N., Department of H	Medical and Health Sciences	ICO global oncology	2022	0	33
Neuroendocrine Tumours of Extrahepatic Biliary Tract: Report of Four Cases with Literature Review	Chopde A., Department of Surgi	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	0	21
Results on photon-mediated dark-matter-nucleus interactions from the PICO-60 C3 F8 bubble chamber	Ali B., Institute of Experimental a	Physical Sciences	Physical Review D	2022	1	278
Preventing unrecognized oesophageal intubation: a consensus guideline from the Project for Universal Management of Airways and International airway societies*	Chrimas N., Department of Anaes	Medical and Health Sciences	Anaesthesia	2022	42	133
Facile one pot synthesis of highly photoresponsive coinage metal selenides (Cu1.85e and Ag2Se) achieved through novel Cu and Ag pyridylselenolates as molecular precursors	Karmakar G., Chemistry Division,	Chemical Sciences	Dalton Transactions	2022	3	203
Determination of α -optical potential for reactions with p-nuclei from the study of (α, n) reactions in the astrophysically relevant energy region	Basak D., Nuclear Physics Divisio	Physical Sciences	European Physical Journal A	2022	1	105
The efficacy, toxicity and survival of salvage retreatment PRRT with 177Lu-DOTATATE in patients with progressive NET following initial course of PRRT	Sitani K., Radiation Medicine Cer	Medical and Health Sciences	British Journal of Radiology	2022	3	116
Exciton Dynamics in Colloidal CdS Quantum Dots with Intense and Stokes Shifted Photoluminescence in a Single Decay Channel	Gopoi H., Department of Chemis	Chemical Sciences	Journal of Physical Chemistry Letters	2022	3	235
Influence of ion implantation on depth dependent phase transition in TiO2 films, anatase nanostructures and photo-absorption behavior	Manna A.K., Institute of Physic	Physical Sciences	Current Applied Physics	2022	1	95

Crystal structure solution of a high-pressure polymorph of scintillating MgMoO ₄ and its electronic structure	Ruiz-Fuertes J., DCITIMAC, Univ	Physical Sciences	Physical Review B	2022	0	481
Fracture Studies on Through-Wall Cracked Straight Pipes and Elbows under Internal Pressure and Bending	Saravanan M., Fatigue & Fractur	Engineering Sciences	Experimental Techniques	2022	0	39
Electric-field assisted ultrafast synthesis of Ti3SiC ₂ MAX phase	Kiran N.U., Materials Chemistry I	Physical Sciences	Journal of the American Ceramic Society	2022	0	212
Damping in yttrium iron garnet films with interface	Kumar R., Department of Physic	Physical Sciences	Physical Review B	2022	2	461
Shock structure in collisional positive ion-negative ion plasmas	Chakrabarti N., Saha Institute of	Physical Sciences	Physica Scripta	2022	0	91
Leptoquark-assisted singlet-mediated di-Higgs production at the LHC	Bhaskar A., Center for Computat	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	1	275
Fate and transport of strontium in groundwater from a layered sedimentary aquifer system	Keesari T., Isotope Hydrology Se	Chemical Sciences	Chemosphere	2022	5	288
Improved measurement of neutrino oscillation parameters by the NOvA experiment	Azero M.A., Universidad Del Atl	Physical Sciences	Physical Review D	2022	29	378
Ultrasound Based Noninvasive Estimation of Mixing Time in a Vortex Reactor	Sen N., Chemical Engineering Di	Engineering Sciences	Industrial and Engineering Chemistry Research	2022	0	245
Sensing lysozyme fibrils by salicylaldehyde substituted BODIPY dyes - A correlation with molecular structure	Sen A., Beam Technology Develo	Chemical Sciences	International Journal of Biological Macromolecules	2022	1	166
Insights into the Coordination Behavior of Methyl-Substituted Phosphinic Acids with Actinides	Rajani P., Indira Gandhi Centre fo	Chemical Sciences	Inorganic Chemistry	2022	1	249
Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at $\sqrt{s}=13\text{TeV}$	Tumasyan A., Yerevan Physics In	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	1	275
Next-to-soft-virtual resummed rapidity distribution for the Drell-Yan process to NNLO+NNLL	Ajjath A.H., The Institute of Mat	Physical Sciences	Physical Review D	2022	1	378
Geometric manifestation led optical beam shaping in one-dimensional photonic crystals	Mondal A., School of Physical Sci	Physical Sciences	Journal of the Optical Society of America B: Optical Physics	2022	1	151
Cytomorphology of spindle cell/sclerosing rhabdomyosarcoma, including MYO11 (L122R) mutation result	Rekhi B., Department of Patholo	Life Sciences	Diagnostic Cytopathology	2022	0	71
Effects of oxytetracycline on aerobic granular sludge process: Granulation, biological nutrient removal and microbial community structure	Nivedhita S., Biofouling and Bio	Life Sciences	Chemosphere	2022	8	288
NIR-emissive, singlet-oxygen-sensitizing gold tetra(thiocyanate)colloids	Sahu K., School of Chemical Scie	Chemical Sciences	Dalton Transactions	2022	3	203
On Minimal Surfaces of Rotations Immersed in Deformed Hyperbolic Kropina Space	Gangopadhyay R., DST-CIMS, Bar	Mathematical Sciences	Results in Mathematics	2022	0	38
Spin reorientation transition driven by polaronic states in Nd ₂ CuO ₄	Banik S., Synchrotrons Utilizato	Physical Sciences	Materials Advances	2022	2	28
Effect of Zn substitution on the AC induction heating properties of ZnMn _{1-x} Fe ₂ O ₄ (x = 0.1–0.9) nanoparticles prepared using microwave assisted synthesis	Khan F., Smart Materials Section	Physical Sciences	Ceramics International	2022	1	140
Photophysics of Dibenzof[a,j]pentacene upon Monomer to Thin Film Transformation: Enhanced Visible Light Absorption and Ultrafast Singlet Fission	Manna B., Radiation and Photoc	Chemical Sciences	Journal of Physical Chemistry C	2022	1	333
Microwave absorption properties of rare earth (RE) ions doped Mn–Ni–Zn nanoferrites (RE = Dy, Sm, Ce, Er) to shield electromagnetic interference (EMI) in X-band frequency	Srinivas C., Nanomaterials and N	Physical Sciences	Ceramics International	2022	9	140
Heterogeneous Coordination Environment and Unusual Self-Assembly of Ionic Aggregates in a Model Ionomeric Elastomer: Effect of Curative Systems	Vislavath P., Polymer Division, N	Chemical Sciences	Macromolecules	2022	1	332
Highly efficient ZnO nanostructures for enhanced photocatalytic degradation of organic contaminants under simulated solar light: An efficient industrial approach	Gupta J., Chemistry Division, Bha	Chemical Sciences	Materials Today: Proceedings	2022	0	16
Homo and Heterotypic Cellular Cross-Talk in Epithelial Ovarian Cancer Impart Pro-Tumorigenic Properties through Differential Activation of the Notch3 Pathway	Mukherjee S., Imaging Cell Signa	Life Sciences	Cancers	2022	0	111
Genome dynamics, codon usage patterns and influencing factors in Aeromonas hydrophila phages	Tyael A., Department of Aquatic	Life Sciences	Virus Research	2022	0	136
Measurement of the parity-odd angular distribution of γ rays from polarized neutron capture on C ₆₅	Fomin N., University of Tennesse	Physical Sciences	Physical Review C	2022	1	229
MTP18 inhibition triggers mitochondrial hyperfusion to induce apoptosis through ROS-mediated lysosomal membrane permeabilization-dependent pathway in oral cancer	Panigrahi D.P., Cancer and Cell D	Life Sciences	Free Radical Biology and Medicine	2022	1	289
ϕ meson production in p+AL, p+Au, d+Au, and He 3 +Au collisions at $\sqrt{s_{NN}}=200$ GeV	Acharya U., Georgia State Univ	Physical Sciences	Physical Review C	2022	2	229
Electronic structure of hafnium monocarbide (HfC) and its ion (HfC ⁺)	Bhattacharyya S., Infrared Laser	Physical Sciences	Computational and Theoretical Chemistry	2022	0	96
Catalytic application of K ₂ Ce(P ₂ O ₇) ₂ in Knoevenagel condensation -A green protocol	Soni R., Department of Chemistr	Chemical Sciences	Journal of the Indian Chemical Society	2022	1	9
Maintenance therapy with a poly(ADP-ribose) polymerase inhibitor in patients with newly diagnosed advanced epithelial ovarian cancer: individual patient data and trial-level meta-analysis	Gulis S., Department of Medical	Medical and Health Sciences	ESMO Open	2022	4	49
High capacity reversible hydrogen storage in Si substituted and Li decorated C ₂₀ fullerene: Acumen from density functional theory simulations	Jaiswal A., Computational Mater	Physical Sciences	International Journal of Energy Research	2022	6	110
Establishment of in vitro Calibration Curve for 60Co- γ -rays Induced Phospho-53BP1 Foci, Rapid Biodosimetry and Initial Triage, and Comparative Evaluations With γ H2AX and Cytogenetic Assays	Chaurasia R.K., Radiological Phys	Physical Sciences	Frontiers in Public Health	2022	3	80
Heat capacity measurements of PrCd ₁₁ (s) and PrCd ₆ (s)	Shyam Kumar S., Homi Bhabha N	Chemical Sciences	Journal of Chemical Thermodynamics	2022	1	99
A sensitive humidity sensor at low pressure with SnO ₂ QDs	Pan S., Surface and Nanoscience	Chemical Sciences	Sensors and Actuators A: Physical	2022	4	168
Mapping the Real-Time Vibrational Infrastructure of Cs ₂ Ni ₆ Nanocrystals through Coherent Phonon Dynamics	Kaur G., Institute of Nano Scienc	Chemical Sciences	ACS Photonics	2022	2	117
Inter-subunit crosstalk via PDZ synergistically governs allosteric activation of proapoptotic Htra2	Parul A.L., Integrated Biophysic	Life Sciences	Structure	2022	2	194
A novel method for assessment of crowded plutonium alpha tracks	Ramkumar J., Analytical Chemist	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	0	73
highMLR: An open-source package for R with machine learning for feature selection in high dimensional cancer clinical genome time to event data	Bhattacharjee A., Section of Blo	Medical and Health Sciences	Expert Systems with Applications	2022	0	249
VUV photoabsorption of thermally processed carbon disulfide and ammonia ice mixtures – Implications for icy objects in the solar system	Pavithra S., Physical Research L	Physical Sciences	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectros	2022	0	145
Prevention of carcinogen-induced oral cancers by polymeric black tea polyphenols via modulation of EGFR-Akt-mTOR pathway	Nimbalkar V.K., Mahimkar Lab, C	Medical and Health Sciences	Scientific Reports	2022	0	282
Switching the Reactivity of the Nickel-Catalyzed Reaction of 2-Pyridones with Alkynes: Easy Access to Polyarylpolyalkyl Quinolones	Prusty N., School of Chemical Sci	Chemical Sciences	Organic Letters	2022	4	252
Investigation of aqueous phase dynamics in a uranium stripping unit using radioactive tracer	Goswami S., Isotope and Radiati	Engineering Sciences	Applied Radiation and Isotopes	2022	0	85
Highly strained gold (Au)-palladium (Pd) core-shell nanopyramids with extraordinary high activity and durability towards ethanol electrooxidation	Singha T., Surface Physics & Mat	Physical Sciences	Applied Surface Science	2022	4	239
Irreducible integrable modules for the full toroidal Lie algebras coordinated by rational quantum torus	Tantubay S., Harish-Chandra Res	Mathematical Sciences	Journal of Algebra	2022	0	79

Chemically Induced Surface Potential Modulation at Pd(AI2O3) Graphene Field Effect Transistors: Implications for Enhanced H2Sensing	Agarwal P., Saha Institute of Nuclear Physics	Physical Sciences	ACS Applied Nano Materials	2022	1	64
Study of unique aspects of oxidative-nitrosative environment in a radio frequency cold plasma device	Tiwari N., Bhabha Atomic Research Centre	Physical Sciences	Vacuum	2022	3	95
Determination of optimum etching duration of CR-39 track detector for high fluence alpha particle measurement using UV-Vis spectroscopy	Sahoo G.S., Health Physics Division	Physical Sciences	Radiation Physics and Chemistry	2022	1	93
Structural, rheological and therapeutic properties of pluronic F127 hydrogel and beeswax based lavender oil ointment formulations	Ganguly R., Chemistry Division, Bhabha Atomic Research Centre	Chemical Sciences	Journal of Molecular Liquids	2022	1	150
Diversity of nutrient and nutraceutical contents in the fruits and its relationship to morphological traits in bitter melon (Momordica charantia L.)	Hazra P., Department of Vegetable Science	Life Sciences	Scientia Horticulturae	2022	0	134
Realization of a Model-Free Pathway for Quantum Dot-Protein Interaction Beyond Classical Protein Corona or Protein Complex	Preeyanka N., School of Chemical Sciences	Chemical Sciences	Langmuir	2022	1	389
Recovery of rare earth elements from coal flyash using deep eutectic solvents as leachants and precipitating as oxalate or fluoride	Karan R., Homi Bhabha National Centre	Chemical Sciences	Hydrometallurgy	2022	11	136
Nearly model-independent constraints on dense matter equation of state in a Bayesian approach	Patra N.K., Department of Physics	Physical Sciences	Physical Review D	2022	9	378
Existence of noble gas-inserted phosphorus fluorides: FNgPF2 and FNgPF4 with Ng-P covalent bond (Ng = Ar, Kr, Xe and Rn)	Kuntar S.P., Bio Science Group, Bhabha Atomic Research Centre	Chemical Sciences	Physical Chemistry Chemical Physics	2022	2	272
High capacity hydrogen storage on zirconium decorated γ -graphene: A systematic first-principles study	Singh M., Department of Physics	Physical Sciences	International Journal of Hydrogen Energy	2022	4	248
Study of very forward energy and its correlation with particle production at midrapidity in pp and p-Pb collisions at the LHC	Acharya S., Variable Energy Cyclotron	Physical Sciences	Journal of High Energy Physics	2022	0	247
Combinatorial approaches to effective therapy in glioblastoma (GBM): Current status and what the future holds	Asija S., Department of Biosciences	Medical and Health Sciences	International Reviews of Immunology	2022	7	75
Fiber Bragg grating sensor for in situ substrate temperature measurement in a magnetron sputtering system	Jagannadha Raju S.D.V.S., Photonics	Physical Sciences	Physica Scripta	2022	3	91
Investigation of Subsonic to Supersonic Transition of a Low-Pressure Plasma Torch Jet	Mohanta R.K., Institute for Plasma Physics	Physical Sciences	IEEE Transactions on Plasma Science	2022	1	114
Participation of Lower and Upper Middle-Income Countries in Clinical Trials Led by High-Income Countries	Rubagumya F., Department of Clinical Medicine	Medical and Health Sciences	JAMA Network Open	2022	7	106
Automated Detection of Threat Materials in X-Ray Baggage Inspection Systems (XBISs)	Kayalvizhi R., Srmsist, Department of Physics	Engineering Sciences	IEEE Transactions on Nuclear Science	2022	1	130
Application of Impregnated Resins for the Recovery of Actinides from Alpha Contaminated Solid Waste	Pahan S., Process Development, Bhabha Atomic Research Centre	Chemical Sciences	Chemistry Select	2022	0	51
Chain-folding regulated self-assembly, outstanding bactericidal activity and biofilm eradication by biomimetic amphiphilic polymers	Barman R., School of Applied Chemistry	Physical Sciences	Polymer Chemistry	2022	3	136
Pressure induced structural phase transition in Cr doped Mn2O3 multiferroics	Chandra M., UGC-DAE Consortium for Basic Research	Physical Sciences	Physica Scripta	2022	0	91
A comprehensive modelling approach to estimate the transmissibility of coronavirus and its variants from infected subjects in indoor environments	Anand S., Health Physics Division	Physical Sciences	Scientific Reports	2022	1	282
Three-dimensional complex architectures observed in shock processed amino acid mixtures	Singh S.V., Atomic, Molecular and Optical Physics	Physical Sciences	Experimental Results	2022	1	4
Trans-IR flows to black hole singularities	Caceres E., Theory Group, Department of Physics	Physical Sciences	Physical Review D	2022	8	378
High-capacity hydrogen storage in yttrium-decorated α -graphene: Acumen from density functional theory	Chakraborty B., High Pressure and Temperature Physics	Physical Sciences	Journal of Applied Physics	2022	0	341
Genetic Evidence in Favor of a Polyketide Origin of Acremonepholones, the Fungal "Sesquiterpene" Metabolites	Bansal R., Nuclear Agriculture and Biotechnology	Life Sciences	Microbiology Spectrum	2022	0	76
Gold-Hydrogen Analogy in Small-Sized Hydrogen-Doped Gold Clusters Revisited	Megha, Human Resources Development	Chemical Sciences	ChemPhysChem	2022	1	30
Out-of-Time-Order correlators in driven conformal field theories	Das S., Department of Physics, Indian Institute of Technology	Physical Sciences	Journal of High Energy Physics	2022	3	247
Studies on thermal profile measurement and fire detection in a power supply cable of a synchrotron radiation source by Raman optical fiber distributed temperature sensor system	Kumar Saxena M., FSOSS, Laser Physics	Physical Sciences	Optical Fiber Technology	2022	1	70
Effect of interfacial native oxide on the IV characteristics of ZnO/Si(111) heterojunction	Abhishek K.J., Centre for Incubation and Innovation	Physical Sciences	Physica B: Condensed Matter	2022	1	124
Dependence of defect structure on In concentration in InGaN epilayers grown on AlN/Si(111) substrate	Chowdhury A.M., Materials Research	Physical Sciences	Materials Advances	2022	0	28
Distannadithiophenes and Their Application towards Hydroboration of Carbonyl Compounds	Sa S., School of Chemical Sciences	Chemical Sciences	European Journal of Inorganic Chemistry	2022	0	143
A blue arsenomolybdate acid-crystal violet ion-associate pair paving the way for the field detection of arsenic in groundwater	Krishna M.V.B., National Centre for Environmental and Energy Research	Chemical Sciences	Analytical Methods	2022	0	85
Evaluation of the simulated aerosol optical properties over India: COALESCE model inter-comparison of three GCMs with ground and satellite observations	Sarkar T., Health Physics Division	Physical Sciences	Science of the Total Environment	2022	2	317
Dimorphic cubic phases and magnetic properties of a new binary compound PrIr3	Mondal B., Condensed Matter Physics	Physical Sciences	Journal of Physics and Chemistry of Solids	2022	0	117
Experimental and Monte Carlo based study of different microdosimetric quantities at mixed radiation environments of nuclear reactor, reprocessing facility and D-D accelerator	Dawn S., Radiological Physics and Chemistry	Physical Sciences	Radiation Physics and Chemistry	2022	2	93
Transition metal decorated VSe2s promising catechol sensor: Insights from DFT simulations	Chakraborty B., High Pressure and Temperature Physics	Physical Sciences	Journal of Applied Physics	2022	6	341
Effect of solenoid misalignment on the injection efficiency for K500 superconducting cyclotron at VECC	Paul S., Variable Energy Cyclotron	Physical Sciences	Pramana - Journal of Physics	2022	0	58
Reduction of nanoscopic dynamics in the zwitterionic membrane by salt	Sharma V.K., Solid State Physics	Physical Sciences	Journal of Applied Physics	2022	1	345
Synthesis and application of chloroacetamides in pyridinium based ionic liquid for high temperature extraction of uranyl ion: A novel and 'green' approach for extractive mass transfer at elevated temperature	Madan Bhatt A., Department of Chemistry	Chemical Sciences	Journal of Molecular Liquids	2022	1	150
Glutoxin, an immunosuppressive Fungal Metabolite, Primes Plant Immunity: Evidence from Trichoderma virens-Tomato Interaction	Zaid R., Faculty of Biology, Technological Education Institute	Life Sciences	mBio	2022	5	154
A COMPREHENSIVE STUDY ON INDOOR RADON, THORON AND THEIR PROGENY LEVEL IN DIMAPUR DISTRICT OF NAGALAND, INDIA	Jamir S., Department of Chemistry	Physical Sciences	Radiation Protection Dosimetry	2022	2	77
Dithiophosphate Anchored Heterometallic (Ag(I)/Fe(III)) Molecular Catalysts for Electrochemical Hydrogen Evolution Reaction	Jangid D.K., Department of Chemistry	Life Sciences	Inorganic Chemistry	2022	2	249
Investigation of Sensing Characteristics for the Detection of Formaldehyde Using a Multichannel Data Acquisition System and Semiconductor Metal Oxide Sensor	Keshari A.K., Homi Bhabha National Centre	Chemical Sciences	Sensing and Imaging	2022	0	25
B2-disorder effects on the structural, electronic and magnetic properties of Co2MnAl Heusler alloy	Kumar A., Thin Film Laboratory	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	0	187
Structural Stability and Phase Transitions in Zeolite A: An In Situ High Pressure-High Temperature Investigation	Irshad K.A., Materials Chemistry	Chemical Sciences	Inorganic Chemistry	2022	0	249
Design, development and characterization of resistive arm based planar and conformal metasurfaces for RCS reduction	Tiwari P., Institute for Plasma Physics	Engineering Sciences	Scientific Reports	2022	4	282
Quantum battery with ultracold atoms: Bosons versus fermions	Konar T.K., Harish-Chandra Research Institute	Physical Sciences	Physical Review A	2022	3	281

Synthesis and characterization of noble hydrogel beads of amino functionalized reduced graphene oxide for selective extraction of gold from electronic waste	Saha S., Analytical Chemistry Div	Chemical Sciences	Materials Today Communications	2022	2	42
Bright green emitting Terbium-MOF with high quantum yield achieved through post synthetic modifications	Sravani V.V., Homi Bhabha Nat	Chemical Sciences	Optical Materials	2022	1	113
ZMYND8 suppresses MAPT213 lncRNA transcription to promote neuronal differentiation	Adhikary S., Biophysics and Struc	Life Sciences	Cell Death and Disease	2022	0	147
Magnetic moments of leptons, charged lepton flavor violations and dark matter phenomenology of a minimal radiative Dirac neutrino mass model	De B., Institute of Physics, Sachin	Physical Sciences	Journal of High Energy Physics	2022	1	247
Determination of chiral bioactive molecules in Justicia adhatoda leaves by GC-MS	Das A., School of Chemical Scien	Chemical Sciences	Chirality	2022	0	81
Bio-polymeric transferrin-targeted temozolomide nanoparticles in gel for synergistic post-surgical GBM therapy	Sandbor P., Department of Biol	Life Sciences	Nanoscale	2022	1	268
Evidence for Nonlinear Gluon Effects in QCD and Their Mass Number Dependence at STAR	Abdallah M.S., American Univers	Physical Sciences	Physical Review Letters	2022	3	674
Strong paramagnetic response in the superconducting state of Y-containing VO.6Ti0.4 alloys	Ramjan S.K., Free Electron Laser	Physical Sciences	Superconductor Science and Technology	2022	1	112
High-energy and ultra-high-energy neutrinos: A Snowmass white paper	Ackermann M., DESY, Zeuthen, U	Physical Sciences	Journal of High Energy Astrophysics	2022	15	20
Experimental study of the Ca 40,48 + Ca 40,48 reactions at 35 MeV/nucleon	Fable Q., Ganil, CEA/DRF-CNRS/I	Physical Sciences	Physical Review C	2022	3	229
Elastic scattering and boron, lithium, and α -particle production in the Be9 + V51 reaction	Kumawat H., Nuclear Physics Div	Physical Sciences	Physical Review C	2022	1	229
Characterizing the initial conditions of heavy-ion collisions at the LHC with mean transverse momentum and anisotropic flow correlations	Acharya S., Variable Energy Cycl	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	5	275
Temperature-Dependent Superhydrophobic Functionalized Coordination Polymers (SFPCs) for Selective Adsorption of CH4 over C2H6	Suryachandram J., New Generat	Chemical Sciences	Inorganic Chemistry	2022	0	249
Bi-directional catalyst injection in floating catalyst chemical vapor deposition for enhanced carbon nanotube fiber yield	Alexander R., Materials Group, B	Physical Sciences	Carbon Trends	2022	1	11
Mesoporous NaGdF4/Ho-Yb@m-SiO2 Upconversion Nanophosphors as a Potent Theranostic Probe	Joshi R., Chemistry Division, Bhal	Chemical Sciences	ACS Applied Nano Materials	2022	3	64
Quantitative analysis of circulating levels of vimentin, clusterin and fibulin-5 in patients with pseudoxfoliation syndrome and glaucoma	Kapuganti R.S., School of Biolog	Life Sciences	Experimental Eye Research	2022	1	138
Polyanionic amphiphilic polymer based supramolecular dye-host assembly: Highly selective turn-on probe for protamine sensing	Chakraborty G., Laser and Plasm	Chemical Sciences	Sensors and Actuators B: Chemical	2022	3	223
Hydrogen Bonding Directed Reversal of 13C NMR Chemical Shielding	Jena S., School of Chemical Scien	Chemical Sciences	Angewandte Chemie - International Edition	2022	4	612
Trends of earth-abundant transition metal-doped in CoSe2 microstructures towards improved water splitting and supercapacitor applications	Samal R., Centre for Nano and M	Physical Sciences	International Journal of Energy Research	2022	1	110
Development of a Multi-Compartment Containment thermal hydraulic code: PARIRODHAN	Mittal D., Reactor Safety Division	Engineering Sciences	Nuclear Engineering and Design	2022	0	115
Dengue Virus NS4b N-Terminus Disordered Region Interacts with NS3 Helicase C-Terminal Subdomain to Enhance Helicase Activity	Kundharapu S., School of Biolog	Life Sciences	Viruses	2022	1	114
Correct and Accurate Polymorphic Energy Ordering of Transition-Metal Monoxides Obtained from Semilocal and Onsite-Hybrid Exchange-Correlation Approximations	Ghosh A., Department of Physic	Physical Sciences	Journal of Physical Chemistry C	2022	2	323
Carter-Penrose diagrams for emergent spacetime in axisymmetrically accreting black hole systems	Maitly S., Department of Physics	Physical Sciences	Physical Review D	2022	0	378
Diselenide-derivative of 3-pyridinol targets redox enzymes leading to cell cycle deregulation and apoptosis in A549 cells	Gandhi V.V., Radiation and Phot	Chemical Sciences	Biological Chemistry	2022	1	544
Relativistic mean field model parametrizations in the light of GW170817, GW190814, and PSR J0740-6620	Thakur V., Department of Physic	Physical Sciences	Physical Review C	2022	4	220
Inelastic charged-current interactions of supernova neutrinos in two-phase liquid xenon dark matter detectors	Bhattacharjee P., Saha Institute o	Physical Sciences	Physical Review D	2022	0	378
Double-multilayer monochromators for high-energy and large-field X-ray imaging applications with intense pink beams at SPring-8 BL20B2	Koyama T., Japan Synchrotron R	Physical Sciences	Journal of Synchrotron Radiation	2022	0	108
Vacuum brazing of copper and SS316L using Ni-P eutectic alloy filler for nuclear applications	Vettrivendan E., Metallurgy and N	Chemical Sciences	Welding in the World	2022	1	46
Intensified gaseous-phase precipitation of ammonium di-uranate through ultrasonic assisted route	Paik S., Uranium Extraction Divis	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	2	73
Upgraded imaging capabilities at the BAMLINE (BESSY II)	Markötter H., Bundesanstalt für	Physical Sciences	Journal of Synchrotron Radiation	2022	4	108
On $L_p \rightarrow L_q$ boundedness of the twisted convolution operators	Maitly A.K., Harish-Chandra Rese	Mathematical Sciences	Journal of Analysis	2022	0	11
Improved precision in As speciation analysis with HERFD-XANES at the As K-edge: the case of As speciation in mine waste	Saurette E.M., Department of Es	Physical Sciences	Journal of Synchrotron Radiation	2022	0	108
Resummed Higgs boson cross section at next-to 5V to NNLO + NNLL ⁻	Ajath A.H., The Institute of Mat	Physical Sciences	European Physical Journal C	2022	3	188
A new Kirkpatrick-Baez-based scanning microscope for the Submicron Resolution X-ray Spectroscopy (SRX) beamline at NSLS-II	Nazaretski E., National Synchrotr	Physical Sciences	Journal of Synchrotron Radiation	2022	1	108
Four-mode Squeezed States in de Sitter Space: A Study With Two Field Interacting Quantum System	Choudhury S., Centre For Cosmo	Physical Sciences	Fortschritte der Physik	2022	0	68
Theoretical and experimental studies of multi-port RF power feeding in rod-type radio frequency quadrupole (RFQ) linac	Pandey H.K., Variable Energy Cyc	Engineering Sciences	AIP Advances	2022	0	73
Salvage (Re)radiation in Oligometastatic and Oligorecurrent Cervical Cancer	Chopra S., Department of Radiat	Medical and Health Sciences	International Journal of Radiation Oncology Biology Physics	2022	1	268
Enrichment Factor and Chemical Composition of Size Separated Airborne Particulate Matter of Singrauli Coalfield, India	Yadav A.K., Department of Minir	Physical Sciences	Aerosol Science and Engineering	2022	1	12
Differential Physiological Sodium Iodide Symporter Expression in Lactating Breasts	Ramesh S., Junior Resident; Basu	Medical and Health Sciences	The Journal of the Association of Physicians of India	2022	0	63
Realization of transition metal selenide active facets via synergistic sulfur doping for bifunctional alkaline water splitting applications: A comparative study	Samal R., Centre for Nano and M	Physical Sciences	Applied Surface Science	2022	2	219
Leptomeningeal metastasis from non-small cell lung cancer— \rightarrow post-hoc analysis from four randomised clinical trials	Patil V., Department of Medical	Medical and Health Sciences	ecancermedicalscience	2022	1	42
Hydrogen adsorption and interactions in self-reducing shell hosted palladium nanoparticles on magnetite support	Shrivastava K.C., Analytical Chem	Chemical Sciences	International Journal of Hydrogen Energy	2022	2	248
Olmsted syndrome causing point mutants of TRPV3 (G568C and G568D) show defects in intracellular Ca ²⁺ -mobilization and induce lysosomal defects	Jain A., School of Biological Scien	Life Sciences	Biochemical and Biophysical Research Communications	2022	3	202
Transient heat transfer during startup of a thermal plasma chamber: Numerical insights	Pancholi K.C., Homi Bhabha Nat	Engineering Sciences	Progress in Nuclear Energy	2022	0	74
Single-Molecule Detection-Enabled Plasmonic Ag Nanopap for Unmasking Vibrational Properties in OD SnO2	Sahu B.K., Surface and Nanoscie	Chemical Sciences	ACS Applied Nano Materials	2022	2	64
Ensuring quality in contextualised cancer management guidelines for resource-constraint settings: Using a systematic approach	Sengar M., Tata Memorial Centri	Medical and Health Sciences	BMI Global Health	2022	3	61

On the complexity of singly connected vertex deletion	Das A., Institut de Recherche en	Mathematical Sciences	Theoretical Computer Science	2022	1	125
Lithium Vanadium Polyoxionic Composite Multielectron Intercalation Cathode Derived from Thermodynamically Unstable Li ₂ V ₂ O ₇ /Li ₂ V ₂ O ₇ F	Lokeswararao Y., Multifunctiona	Chemical Sciences	ACS Applied Energy Materials	2022	0	71
Real-space entanglement spectra of parton states in fractional quantum Hall systems	Anand A., Indian Institute of Scie	Physical Sciences	Physical Review B	2022	4	481
A single-molecule approach to unravel the molecular mechanism of the action of Deinococcus radiodurans RecD2 and its interaction with SSB and RecA in DNA repair	Purkait D., Single Molecule Biopl	Chemical Sciences	International Journal of Biological Macromolecules	2022	2	166
Different polymorphs of Y doped HfO ₂ epitaxial thin films: Insights into structural, electronic and optical properties	Nand M., Beamline Developmen	Physical Sciences	Journal of Alloys and Compounds	2022	4	300
Fusobacterium nucleatum is associated with inflammation and poor survival in early-stage HPV-negative tongue cancer	Desai S., Integrated Cancer Gen	Medical and Health Sciences	NAR Cancer	2022	9	11
Spin chirality induced large topological Hall effect in magnetic Weyl semimetallic Eu ₂ Ir ₂ O ₇ (111) thin films	Ghosh M., Department of Physic	Physical Sciences	Physical Review B	2022	1	485
A quest to high-capacity hydrogen storage in zirconium decorated pentagraphene: DFT perspectives	Shajahan A.S., School of Pure &	Physical Sciences	International Journal of Hydrogen Energy	2022	6	248
High temperature oxidation behavior of thermal and plasma processed aluminide coated Ti6Al4V alloys	Patel P., The Maharaja Sayajirao	Engineering Sciences	Surface and Coatings Technology	2022	0	190
Antiferromagnetism beyond the classical percolation threshold in the diluted half-filled one-band Hubbard model in three dimensions	Chakraborty S., Theory Division,	Physical Sciences	Physical Review B	2022	2	485
¹⁷⁷ Lu-DOTATATE PRRT for Multiple Unusual Metastatic Sites in Neuroendocrine Tumor	Parzhan R.V., Radiation Medicin	Medical and Health Sciences	Clinical Nuclear Medicine	2022	0	64
Extramural vascular invasion as an independent prognostic marker in locally advanced rectal cancer: propensity score match pair analysis	Paul S., Department of Radiation	Medical and Health Sciences	Abdominal Radiology	2022	1	83
Anti-proliferative effect and underlying mechanism of ethoxy-substituted phyloquinone (vitamin K1 derivative) from Spinacia oleracea leaf and enhancement of its extractability using radiation technology	Kumar S., Food Technology Divis	Life Sciences	3 Biotech	2022	0	60
Luminescence studies in touch screen protective glass of mobile phones for its possible application as retrospective dosimeter	Kadam S., Radiological Physics ar	Physical Sciences	Journal of Luminescence	2022	0	116
Opportunistic use of naturally expanded neck skin for a buccal mucosa defect	Jaiswal D., Department of Plastic	Medical and Health Sciences	National Journal of Maxillofacial Surgery	2022	0	4
Effect of Oleylamine on the Surface Chemistry, Morphology, Electronic Structure, and Magnetic Properties of Cobalt Ferrite Nanoparticles	Ansari S.M., Department of Phys	Physical Sciences	Nanomaterials	2022	4	102
Comparative Studies of Photochemical and Electrochemical Methods on Mineralization of Picric Acid	Kumar R., BARC-Homi Bhabha Ni	Physical Sciences	Defence Science Journal	2022	0	37
Unraveling the physical properties of Mn-doped CdS diluted magnetic semiconductor quantum dots for potential application in quantum spintronics	Maity P., Department of Physics,	Physical Sciences	Journal of Materials Science: Materials in Electronics	2022	0	88
Magnetic properties of Heusler compounds Co _{1-x} CrAl (x = 0, 0.25, 0.5, 0.75, 1)	Datta A., Saha Institute of Nucle	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	0	187
Excitation-Dependent Photoluminescence of BaZrO ₃ :Eu ³⁺ Crystals	Gupta S.K., Radiochemistry Divis	Chemical Sciences	Nanomaterials	2022	4	102
POISSON BOUNDARY ON FULL FOCK SPACE	Bhat B.V.R., Indian Statistical Ins	Mathematical Sciences	Transactions of the American Mathematical Society	2022	0	108
Time-Resolved SAXS Investigation of Correlation-Collapse in Self-Assembled Silica Microgranules during Pozzolanic Gelling	Sen D., Solid State Physics Divis	Physical Sciences	Journal of Physical Chemistry C	2022	0	323
One spectrum to cure them all: signature from early Universe solves major anomalies and tensions in cosmology	Hazra D.K., The Institute of Mat	Physical Sciences	Journal of Cosmology and Astroparticle Physics	2022	8	141
Pd(II)-Functionalized Polymeric Shell Encapsulated on Magnetite Nanocatalysts for C-C Coupling Reactions	Rathod P.B., Radiochemistry Divi	Chemical Sciences	Chemistry Select	2022	0	51
Rough or crumpled: Phases in kinetic growth with surface relaxation	Mukherjee S., Barasat Governm	Physical Sciences	Physical Review E	2022	0	317
Tetra- Coordinated Boron-Functionalized Phenanthroimidazole-Based Zinc Salen as a Photocatalyst for the Cycloaddition of CO ₂ and Epoxides	Nayak P., School of Chemical Sci	Chemical Sciences	Inorganic Chemistry	2022	3	249
Contact-mediated signaling enables disorder-driven transitions in cellular assemblies	Kuyyamudi C., The Institute of M	Physical Sciences	Physical Review E	2022	0	317
A Boron-Nitrogen Double Transborylation Strategy for Borane-Catalyzed Hydroboration of Nitriles	Pradhan S., School of Chemical S	Chemical Sciences	Journal of Organic Chemistry	2022	5	239
Cholesterol Mediated Stable Vesicles: A Nano Drug Delivery Vehicle for Anti-cancer Drugs Curcumin and 5-Fluorouracil	Ukani H., Ionic Liquids Research	Physical Sciences	Chemistry Select	2022	2	51
Enhancement of Photoactivity of TiO ₂ for Potential Applications in CO ₂ Conversion and Water Splitting: A Hybrid Density Functional Theory Study	Bharti N.K., Theoretical Chemist	Chemical Sciences	Journal of Physical Chemistry C	2022	2	323
Analysis of cross-section, S-factor and thermonuclear reaction rate of ⁸ Li(α , n) ¹¹ B and ¹⁴ N(α , p) ¹⁵ O using TALYS and EMPIRE nuclear reaction codes	Mondal S., Department of Physic	Physical Sciences	International Journal of Modern Physics E	2022	0	56
Prediction of a novel 2D porous boron nitride material with excellent electronic, optical and catalytic properties	Mahamiya V., Indian Institute of	Physical Sciences	Physical Chemistry Chemical Physics	2022	3	372
Serial Bone Density Changes in Women Undergoing Pelvic (Chemo) Radiation: Results From the PARCER Trial	Chopade P., Department of Radi	Medical and Health Sciences	International Journal of Radiation Oncology Biology Physics	2022	3	268
Diagnostic and prognostic role of protein and ultrastructural alterations at cell-extracellular matrix junctions in neoplastic progression of human oral malignancy	Dongre H.N., Electron Microscop	Medical and Health Sciences	Ultrastructural Pathology	2022	0	45
Evaluation of the response of plastic scintillator bars and measurement of neutron capture time in non-reactor environment for the ISMRAN experiment	Dev R., Nuclear Physics Division,	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A	2022	1	176
Enhancing Eu ³⁺ red emission in borosilicate glass through UO ₂ ²⁺ →Eu ³⁺ energy transfer: An actinide acting as sensitizer for lanthanide luminescence	Mohapatra M., Radiochemistry C	Chemical Sciences	Journal of Luminescence	2022	2	126
Structure-Related Magnetic Resonance Transverse Relaxivity Enhancement in Superparamagnetic Ensembles with Complex Anisotropy Landscape	Konwar K., Department of Physic	Physical Sciences	Langmuir	2022	2	359
Revealing the Impact of Prestructural Ordering in GaSb Thin Films	Asirvatham J., Department of Ph	Physical Sciences	Journal of Physical Chemistry C	2022	1	323
Femtosecond multiphoton ionization of dialkyl carbonate green solvents at 400 nm using photoelectron-photon coincidence imaging	Das A.K., Atomic and Molecular	Physical Sciences	International Journal of Mass Spectrometry	2022	0	112
2D CoFe-LDH Nanosheet-Incorporated 1D Microfibers as a High-Performance OER Electrocatalyst in Neutral and Alkaline Media	Nagappan S., Academy of Scient	Physical Sciences	ACS Applied Energy Materials	2022	6	71
Evaluation of natural chronic low dose radiation exposure on telomere length and transcriptional response of shelterin complex in individuals residing in Kerala coast, India	Saini D., Low Level Radiation Res	Life Sciences	Mutation Research - Fundamental and Molecular Mechanisms of M	2022	2	156
Influence of Mg/Pc modification on NO ₂ sensing characteristics of RGTO grown SnO ₂ thin films	Ganapathi S.K., Technical Physic	Chemical Sciences	Materials Science in Semiconductor Processing	2022	0	77
Energy calibration of EJ-301 scintillation detector using unfolding methods for fast neutron measurement	Das S., School of Physical Scienc	Physical Sciences	Nuclear Instruments and Methods in Physics Research, Section A	2022	4	176
A Mechanoelastic Glimpse on Hyaluronan-Coated Extracellular Vesicles	Paul D., Department of Chemist	Chemical Sciences	Journal of Physical Chemistry Letters	2022	0	285
Breaking the Monotony: Cobalt and Maleimide as an Entrant to the Olefin-Mediated Ortho C-H Functionalization	Nanda T., School of Chemical Sci	Chemical Sciences	ACS Catalysis	2022	2	268
Order-by-order anisotropic transport coefficients of a magnetised fluid: a Chapman-Enskog approach	Gangopadhyaya U., National Inst	Physical Sciences	Journal of High Energy Physics	2022	0	247

Crack initiation and growth in 316LN stainless steel: Experiments and XFEM simulations	Sidharth R., Department of Aero	Engineering Sciences	Engineering Fracture Mechanics	2022	2	149
Structural, electrical and gas sensing functionality of fabricated Co _{1-x} Zn _x Fe _{2-x} Ni _x O ₄ (x= 0.0,0.3) nanoparticles	Nagpal D., Department of Physic	Chemical Sciences	Physica B: Condensed Matter	2022	0	124
Finding kings in tournaments	Biswas A., The Institute of Math	Mathematical Sciences	Discrete Applied Mathematics	2022	1	92
Impact of Covid-19 on gastrointestinal cancer surgery: A National Survey	Parray A.M., Homi Bhabha Natio	Medical and Health Sciences	Langenbeck's Archives of Surgery	2022	3	89
Polarized Moiré Phonon and Strain-Coupled Phonon Renormalization in Twisted Bilayer MoS ₂	Malik S.K., Laboratory for Low D	Physical Sciences	Journal of Physical Chemistry C	2022	3	323
Ultra-fast detection and monitoring of cancerous volatile organic compounds in environment using graphene oxide modified CNT aerogel hybrid gas sensor	Biranje P.M., Department of Che	Engineering Sciences	Talanta Open	2022	2	11
Influence of Tb substitution on the structural and magnetic properties of BiFeO ₃ multiferroic	Singh J., Department of Physics,	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	1	187
Turán inequalities for the plane partition function	Ono K., Department of Mathem	Mathematical Sciences	Advances in Mathematics	2022	4	106
Txp40, an insecticidal toxin protein from Xenorhabdus nematophila: Purification, toxicity assessment and biophysical characterization	Kinkar O.U., Homi Bhabha Natio	Life Sciences	Toxicom	2022	0	140
Clinical Proteomics for Meningioma: An Integrated Workflow for Quantitative Proteomics and Biomarker Validation in Formalin-Fixed Paraffin-Embedded Tissue Samples	Mukherjee A., Department of Bi	Medical and Health Sciences	Omics : a Journal of Integrative biology	2022	0	66
In vivo tumor immune microenvironment phenotypes correlate with inflammation and vasculature to predict immunotherapy response	Sahu A., Memorial Sloan Ketteri	Medical and Health Sciences	Nature Communications	2022	5	466
Modular organization of gene-tumor association network allows identification of key molecular players in cancer	Jesan T., The Institute of Mather	Physical Sciences	Journal of Biosciences	2022	0	80
Development of indigenous silicon detector and readout electronics for forward electromagnetic calorimeter prototypes	Mukhopadhyay S., Bhabha Atom	Physical Sciences	Pramana - Journal of Physics	2022	1	18
Association between liver enzymes and metabolic syndrome in Canadian adults: results from the Canadian health measures survey - cycles 3 & 4	Chu L.M., Canadian Centre for H	Life Sciences	Journal of Diabetes and Metabolic Disorders	2022	0	42
Spin rectification effects in ferromagnetic metal microstrips induced by anisotropic magnetoresistance, planar Hall effect, and anomalous Hall effect	He K., National Laboratory of Sol	Physical Sciences	Physical Review B	2022	0	481
Synthesis and comparative evaluation of ¹⁷⁷ Lu-labeled PEG and non-PEG variant peptides as HER2-targeting probes	Sharma A.K., Radiopharmaceutic	Chemical Sciences	Scientific Reports	2022	5	282
Glucose-induced self-assembly and phase separation in hydrophilic triblock copolymers and the governing mechanism	Patel D., Department of Chemist	Physical Sciences	Physical Chemistry Chemical Physics	2022	5	272
Synthesis and evaluation of [¹⁷⁷ Lu]-labeled porphyrin loaded PAMAM dendrimer: impact on tumor uptake and pharmacokinetics	Kumar N., Radiopharmaceuticals	Life Sciences	Drug Development Research	2022	0	85
Room temperature fabrication of poly-crystalline Si thin films via Al-induced crystallization under 500 keV Xe ⁺ ion irradiation	Maitly G., Department of Pure an	Physical Sciences	Journal of Applied Physics	2022	2	341
Implications of correlations and fluctuations in small systems	Das D., Saha Institute of Nuclear	Physical Sciences	International Journal of Modern Physics A	2022	0	106
Thermal denitration of sodium nitrate in a fluidized bed reactor: Optimization of process parameters and application of S-statistics for fluidization state monitoring	Badiwal A., Chemical Engineerin	Engineering Sciences	Chemical Engineering Journal Advances	2022	0	19
Vibrational Temperature Estimation of Nitrogen Molecules in Radio-Frequency (RF) Produced Plasma	Yadava N., Institute of Science, A	Physical Sciences	Plasma and Fusion Research	2022	3	21
Impact of the equation of state on f - And p - oscillations of neutron stars	Kunjipurayil A., Department of P	Physical Sciences	Physical Review D	2022	5	378
CBr ₄ catalyzed activation of α,β-unsaturated ketones	Bera S.K., School of Chemical Sci	Chemical Sciences	Organic and Biomolecular Chemistry	2022	3	160
Square Lattice Formation in a Monodisperse Complex Plasma	Singh S., Institute for Plasma Res	Physical Sciences	Physical Review Letters	2022	7	674
Nitrogen-doped carbon aerogel synthesis by solvothermal gelation for supercapacitor application	Bhartiya S., Nano Functional Mat	Physical Sciences	Journal of Solid State Electrochemistry	2022	1	94
Clinical Profile and Outcome of Patients With Human Epidermal Growth Factor Receptor 2-Positive Breast Cancer With Brain Metastases: Real-World Experience	Bhargava P., Department of Med	Medical and Health Sciences	JCO global oncology	2022	1	33
Consistent approach to study gluon quasiparticles	Islam C.A., School of Nuclear Sci	Physical Sciences	Physical Review D	2022	1	378
High resolution in non-destructive testing: A review	Kumar A., Metallurgy and Mater	Physical Sciences	Journal of Applied Physics	2022	7	341
New signature of non-equilibrium fission from pre-scission α-particle emission	Gupta Y.K., Nuclear Physics Divis	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-Er	2022	0	275
Impact of COVID-19 on quality checks of solid tumor molecular diagnostic testing-A surveillance by EQAS provider in India	Shetty D., Department of Pathol	Medical and Health Sciences	PLOS ONE	2022	2	404
Investigating sedimentation process in the plutonium reversion using Eulerian Two-Fluid simulations and experimental verification	Panda S.K., Reprocessing Resear	Chemical Sciences	Nuclear Engineering and Design	2022	0	115
Unravelling the Secrets of Colistin Resistance with Label-Free Raman Spectroscopy	Saikia D., Department of Bioscie	Life Sciences	Biosensors	2022	0	59
Deformation behaviour and strain rate sensitivity of 304L SS at elevated temperatures	Singh B.K., Nuclear Safety Analys	Engineering Sciences	Materials at High Temperatures	2022	0	43
Assay of nuclear grade primary sodium in the fast breeder test reactor for radionuclides and corrosion elements	Rao J.S.B., Materials Chemistry a	Chemical Sciences	Progress in Nuclear Energy	2022	0	74
Evaluation of computed tomography dose profiler probe for computed tomography dose index and geometric efficiency measurements	Akhlesh P., Radiological Physics	Medical and Health Sciences	Biomedical Physics and Engineering Express	2022	0	25
Mortality Associated with Ambient PM _{2.5} Exposure in India: Results from the Million Death Study	Brown P.E., Centre for Global He	Medical and Health Sciences	Environmental Health Perspectives	2022	3	313
Probing the charge transfer mechanisms in type-II Cs ₂ AgBiBr ₆ -CdSe composite system: ultrafast insights	Kaur G., Institute of Nano Scienc	Chemical Sciences	Nanotechnology	2022	1	220
Practice Patterns and Perspectives on Stereotactic Body Radiation Therapy for the Metastatic Spine From Lower- and Middle-Income Countries	Pathak R.S., Department of Radi	Medical and Health Sciences	JCO global oncology	2022	0	33
Impact of Tb doping on luminescence properties of LiCaAlF ₆ phosphor prepared in argon atmosphere and charge transfer mechanism	Seth P., University School of Bes	Physical Sciences	Journal of Luminescence	2022	2	126
Theoretical investigations of the electronic states and electron scattering cross-sections of thiazole (C ₃ H ₃ N ₃)	Jani T., V.P. & R.P.T.P. Science C	Physical Sciences	Journal of Electron Spectroscopy and Related Phenomena	2022	1	97
Downstaging in Advanced Rectal Cancers: A Propensity-Matched Comparison Between Short-Course Radiotherapy Followed by Chemotherapy and Long-Course Chemoradiotherapy	Kammar P.S., Department of Sur	Medical and Health Sciences	Diseases of the Colon and Rectum	2022	1	173
Probing the topological character of superconductors via nonlocal Hanbury Brown and Twiss correlations	Mohapatra T., School of Physical	Physical Sciences	Physical Review B	2022	0	481
Observation of anisotropic Dirac cones in the topological material Tl ₂ Te ₂ P	Dhaka G., Department of Physic	Physical Sciences	Physical Review B	2022	2	481
Effect of reentrant spin glass-like states on Schottky Anomaly and exchange bias in polycrystalline Sm _{0.5} VO ₅ Fe _{0.58} Mn _{0.42} O ₃	Raut S., Department of Physics a	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	2	187
Emulation of bio-synaptic behaviours in copper-doped zinc oxide memristors: A nanoscale scanning probe microscopic study	Mandal R., SUNAG Laboratory, In	Physical Sciences	Applied Surface Science	2022	6	219

Experimental study of voiding effects with thorium based MOX fuel cluster in Critical Facility	Mallick A.K., Reactor Physics Des	Physical Sciences	Nuclear Engineering and Design	2022	1	135
Stability of composite polymeric beads containing a calix[4]arene-mono-crown-6 ligand for radio-caesium separation	Gujar R.B., Radiochemistry Divis	Chemical Sciences	Journal of Chromatography A	2022	0	244
Unravelling the polyethylenimine mediated non-monotonic stability behaviour of silica colloids: the role of competing electrostatic and entropic interactions	Mehta S., Solid State Physics Div	Physical Sciences	Physical Chemistry Chemical Physics	2022	1	272
Osteoradionecrosis of the jaws: A retrospective cohort study	Dholam K.P., Department of Der	Medical and Health Sciences	Journal of Cancer Research and Therapeutics	2022	0	47
Magnetoacoustic response with significant mechanical efficiency in frustrated intermetallic compound Pr ₂ Co _{0.85} Si _{2.88}	Kundu M., Condensed Matter Ph	Physical Sciences	Intermetallics	2022	0	127
Pectin self-assembly and its disruption by water: insights into plant cell wall mechanics	John J., Department of Chemical	Physical Sciences	Physical Chemistry Chemical Physics	2022	0	272
Fluorogenic gemcitabine based light up sensor for serum albumin detection in complex biological matrices	Gadly T., Bio-Organic Division, B	Life Sciences	Colloids and Surfaces B: Biointerfaces	2022	1	176
Thermal lensing in copper vapor laser oscillator-amplifier configuration: Its measurement, role and compensation	Rana P., Laser & Plasma Technol	Physical Sciences	Optik	2022	0	92
Nanocoral Architecture for Enhanced Hydrazine Assisted Water Oxidation: Insight from Experiment and Theory	Sethulakshmi N., Discipline of Ch	Physical Sciences	Journal of Electroanalytical Chemistry	2022	2	167
SITE-SPECIFIC DRY AND WET DEPOSITION VELOCITIES USING 78E AND MASS INTERCEPTION FACTOR FOR VARIOUS TYPES OF PLANT LEAVES AT NARORA SITE, INDIA	Gautam Y.P., Environmental Sur	Physical Sciences	Radiation protection dosimetry	2022	0	77
Ground-state phase diagram of quantum link electrodynamics in (2 + 1)-d	Hashizume T., Department of Ph	Physical Sciences	SciPost Physics	2022	2	52
Long strings and quasnormal winding modes	Ashok S.K., The Institute of Mat	Physical Sciences	Journal of High Energy Physics	2022	1	247
Revealing the DNA Unwinding Activity and Mechanism of Fork Reversal by RecG While Exposed to Variants of Stalled Replication-fork at Single-Molecular Resolution	Bandyopadhyay D., Single Molec	Chemical Sciences	Journal of Molecular Biology	2022	0	285
Application of Thiourea Ameliorates Stress and Reduces Accumulation of Arsenic in Wheat (Triticum aestivum L.) Plants Grown in Contaminated Field	Shukla A., Plant Stress Biology La	Life Sciences	Journal of Plant Growth Regulation	2022	0	97
High-capacity hydrogen storage in zirconium decorated psi-graphene: acumen from density functional theory and molecular dynamics simulations	Nair H.T., Department of Physics	Physical Sciences	International Journal of Hydrogen Energy	2022	8	248
ALL-237 Bortezomib and Rituximab in De Novo Adolescent/Adult CD20-Positive, Ph-Negative Pre-B-Cell Acute Lymphoblastic Leukaemia: Updated 3-Year Results	Goli V.B., Department of Medica	Medical and Health Sciences	Clinical Lymphoma, Myeloma and Leukemia	2022	0	60
TCL-276 Outcome of NK/T-Cell Lymphoma – Retrospective Analysis from a Tertiary Care Cancer Center	Rajendra A., Tata Memorial Hosp	Medical and Health Sciences	Clinical Lymphoma, Myeloma and Leukemia	2022	0	60
A Family-Centered Sexual Health Intervention to Promote Cervical Cancer Screening Uptake among Low-Income Rural Women in India: Protocol for a Community-Based Mixed Methods Pilot Study	Vahabi M., Daphne Cockwell Sch	Medical and Health Sciences	JMIR Research Protocols	2022	0	37
ABCL-421 Demographics, Pattern of Care, and Outcomes of Primary CNS Lymphoma- Experience from a Tertiary Care Cancer Center in India	Sharma A., Tata Memorial Cente	Medical and Health Sciences	Clinical Lymphoma, Myeloma and Leukemia	2022	0	60
CML-428 Real World Data of Treatment Free Remission (TFR) in Patients With Chronic Myeloid Leukemia (CML) Treated at a Tertiary Care Oncology Center in India	Sarma R., Tata Memorial Hospita	Medical and Health Sciences	Clinical Lymphoma, Myeloma and Leukemia	2022	1	60
ABCL-322 Retrospective Analysis of Real-World Outcomes in Older Adult Patients With Diffuse Large B-Cell Lymphoma	Jobanputra K., Tata Memorial Ce	Medical and Health Sciences	Clinical Lymphoma, Myeloma and Leukemia	2022	0	60
Rational Design of Sulfur-Doped Carbon with Expanded Inter-layer Spacing toward Anode Material of Sodium-Ion Batteries	Mishra R., School of Chemical Sc	Chemical Sciences	Energy and Fuels	2022	2	209
Evaluation of the effect of a cell penetrating peptide (TAT) towards tailoring the targeting efficacy and tumor uptake of porphyrin	Guleria M., Radiopharmaceutica	Chemical Sciences	RSC Medicinal Chemistry	2022	3	69
Blocking Si-Induced Visible Photoresponse in n-MgxZn1-xO/p-Si Heterojunction UV Photodetectors Using MgO Barrier Layer	Chetia S.K., Oxide Nano-Electron	Physical Sciences	Physica Status Solidi (A) Applications and Materials Science	2022	2	112
Dependence of Exchange Bias on Interparticle Interactions in Co/CoO Core/Shell Nanostructures	Goswami S., Material Science Re	Physical Sciences	Nanomaterials	2022	1	100
Real-world global data on targeting epidermal growth factor receptor mutations in stage III non-small-cell lung cancer: the results of the KINDLE study	Jazieh A.R., Cincinnati Cancer Ad	Medical and Health Sciences	Therapeutic Advances in Medical Oncology	2022	1	61
Studying Soil Ecology and Growth Conditions of Phellorinia herculeana, a Wild Edible Mushroom	Oviya R., Department of Plant Pa	Life Sciences	Processes	2022	1	54
Initial results from time-resolved LaBr based hard x-ray spectrometer for ADITYA-U tokamak	Purohit S., Institute for Plasma R	Engineering Sciences	Review of Scientific Instruments	2022	0	174
Defect-Mediated Charge Carrier Recombination of Zinc-Silver-Indium Sulfide QDs in the Presence of Naphthoquinone Derivatives: An insight into the interfacial Surface Dynamics	Preeyanka N., School of Chemica	Chemical Sciences	Journal of Physical Chemistry C	2022	1	323
Preparation of Hydrothermal Carbon Quantum Dots as a Contrast Amplifying Technique for the diaCEST MRI Contrast Agents	Pandey S., School of Chemical Sc	Chemical Sciences	ACS Omega	2022	1	77
Understanding the Mechanism of Cs Accumulation on Stainless Steel Suspended in Nuclear High-Level Liquid Waste	Patra K., Nuclear Recycle Board,	Chemical Sciences	ACS Omega	2022	0	77
Mechanism of Iron Integration into LiMn1.5Ni0.5O4for the Electrocatalytic Oxygen Evolution Reaction	Ahmed I., Department of Chemi	Physical Sciences	Energy and Fuels	2022	6	209
Experimental and computational insights into the anomalous thermal expansion of (NH4)ReO4	Saura-Múzquiz M., School of Che	Physical Sciences	Journal of Solid State Chemistry	2022	0	154
Does carrier gas have a role on the yield and alignment of CNT fibers	Alexander R., Materials Group, B	Engineering Sciences	Diamond and Related Materials	2022	1	121
Maximising Modern Diagnostic Approaches to Assess Genetic Contamination in Laboratory Rodents	Antony D., Sunandan Divatia Sch	Life Sciences	Indian Veterinary Journal	2022	0	19
Chemical and Redox Speciation of Uranyl with Three Environmentally Relevant Bifunctional Chelates: Multi-Technique Approach Combined with Theoretical Estimations	Srivastava A., Radiochemistry Div	Chemical Sciences	Inorganic Chemistry	2022	1	249
High-capacity hydrogen storage in zirconium decorated zeolite templated carbon: Predictions from DFT Simulations	Mondal B., Department of Ener	Physical Sciences	International Journal of Hydrogen Energy	2022	3	248
Exploring bosonic and fermionic link models on [3+1] D tubes	Banerjee D., Theory Division, Sa	Physical Sciences	Physical Review Research	2022	1	53
Exploring the thermal limits of malaria transmission in the western Himalaya	Mozaffer F., The Institute of Mat	Life Sciences	Ecology and Evolution	2022	3	89
Supported by SERB, Department of Science and Technology, Govt. of India, Project No. CRG/2019/002691, FOSTECT Project No. FOSTECT.201908.04, and FAPESP Project No. 2017/05660-0	Patttnaik J.A., Department of Phy	Physical Sciences	Chinese Physics C	2022	0	46
Similar and Dissimilar Properties of Polymorphic Phases of NdIr3	Dan S., Department of Physics, T	Physical Sciences	Journal of Physical Chemistry C	2022	0	323
Ambient-light-induced intermolecular Coulombic decay in unbound pyridine monomers	Barik S., Department of Physics,	Chemical Sciences	Nature Chemistry	2022	4	271
Efficacy of Propyl Selenoethers Against Peroxyl Radical Induced Protein Damage: Effect of Functional Group Substitution	Gandhi V.V., Radiation & Photoc	Chemical Sciences	Current Chemical Biology	2022	0	23
ALP-portal majorana dark matter	Gola S., The Institute of Mathem	Physical Sciences	International Journal of Modern Physics A	2022	1	105
Common iliac Node-Positive Prostate Cancer Treated With Curative Radiation Therapy: N1 or M1a?	Chopade P., Department of Radi	Medical and Health Sciences	International Journal of Radiation Oncology Biology Physics	2022	3	268
Theoretical SERS study of the strength and suitability of Cu12 nanostar for SERS: Complete theoretical studies, coinage metal SM12 comparisons, benzothiazole (BTH) adsorbent	Al-Otaibi J.S., Department of Che	Physical Sciences	Computational and Theoretical Chemistry	2022	6	96

Refractive index and domain structure of undoped and Nb doped (Na _{0.41} K _{0.09} Bi _{0.50})TiO ₃ (NBT-KBT) single crystal grown at MPB composition	Sharma A., Homi Bhabha Nation	Physical Sciences	Optical Materials	2022	1	133
A pro-oxidant combination of resveratrol and copper down-regulates hallmarks of cancer and immune checkpoints in patients with advanced oral cancer: Results of an exploratory study (RESCU 004)	Pilankar A., Translational Resear	Medical and Health Sciences	Frontiers in Oncology	2022	3	121
Purification, characterization and toxicity assessment of PirAB toxins from Photorhabdus akhurstii subsp. akhurstii K-1	Prashar A., Nuclear Agriculture a	Life Sciences	Journal of Invertebrate Pathology	2022	0	99
Influence of temperature and hydrogen content on the transverse mechanical properties of Zircaloy-4 fuel cladding	Sawarn T.K., Post Irradiation Exa	Engineering Sciences	Progress in Nuclear Energy	2022	0	74
Impact of gamma radiation on 8051 microcontroller performance	Sharma C., Indira Gandhi Centre	Physical Sciences	Nuclear Engineering and Technology	2022	0	51
Enhanced Spin Transfer Torque in Single Barrier Model Tunnel Junctions Containing Disordered Interface	Harikumar P., Materials Science	Physical Sciences	SPIN	2022	0	21
Electrochemical Corrosion Behavior of Explosively Welded Ti/Type 304L Stainless Steel in Nitric Acid	Ghosal A.M., Materials Processin	Engineering Sciences	Corrosion	2022	0	97
Structural parameterizations of Tracking Paths problem	Choudhary P., Department of Th	Mathematical Sciences	Theoretical Computer Science	2022	0	125
Recycled entanglement detection by arbitrarily many sequential and independent pairs of observers	Pandit M., Institute of Theoretic	Physical Sciences	Physical Review A	2022	2	281
Unique Dispersion-Induced Tetrel Bond with Co-operative o-hole-Induced Pnicogen Bond in the POC13-Acetone Heterodimer: Experimental Confirmation at Low Temperatures	Suryaprasad B., Materials Chemi	Chemical Sciences	Journal of Physical Chemistry A	2022	0	258
Thorium dicarbide under high pressure and high temperature: Ab initio investigation	Sahoo B.D., Apollid Physics Divis	Physical Sciences	Journal of Applied Physics	2022	0	341
Searching for exotic Higgs bosons at the LHC	Bhattacharyya G., Saha Institute	Physical Sciences	Physical Review D	2022	0	378
Efficient and improved prediction of the band offsets at semiconductor heterojunctions from meta-GGA density functionals: A benchmark study	Ghosh A., Department of Physic	Physical Sciences	Journal of Chemical Physics	2022	2	379
An equivariant PPV theorem and Paschke-Higson duality	Benamur M.-T., Institut Montp	Mathematical Sciences	Annals of K-Theory	2022	0	8
Coupling of 'cold' electron plasma wave via stationary ion inhomogeneity to the plasma bulk	Kumar Pandey S., Institute for Pl	Physical Sciences	Physica Scripta	2022	0	91
Pressure-induced variations of medium-range order in B2O3 glasses	Chakraborty S., Condensed Matt	Physical Sciences	Bulletin of Materials Science	2022	0	81
Centre of a compact convex set	Karn A.K., School of Mathematic	Mathematical Sciences	Banach Journal of Mathematical Analysis	2022	0	25
Concurrent tellurite reduction, biogenesis of elemental tellurium nanostructures and biological nutrient removal in aerobic granular sludge sequencing batch reactor	Sarvaith M., Biofouling and Biof	Life Sciences	Journal of Environmental Chemical Engineering	2022	5	107
LiAlO ₂ :Sm a highly sensitive and multi-functional radiation dosimeter	Jopar P.R., Homi Bhabha Nation	Physical Sciences	Ceramics International	2022	0	140
A new short synthesis route for favipiravir and its analogue: Their tautomerization behaviour	Ghosh P., School of Chemical Sci	Chemical Sciences	New Journal of Chemistry	2022	2	131
Clinical utility of CAR T cell therapy in brain tumors: Lessons learned from the past, current evidence and the future stakes	Chatterjee A., Department of Ra	Medical and Health Sciences	International Reviews of Immunology	2022	1	75
Measurement of H ₁₄ and He ₁₄ binding energy in Au+Au collisions at s _{NN} = 3 GeV	Abdallah M.S., American Univers	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	2	275
Localised corrosion susceptibility of nitrogen-containing type 316LN stainless steel in cold work and thermally aged conditions	Mannepilli S., Corrosion Science	Chemical Sciences	Corrosion Engineering Science and Technology	2022	0	46
(Chiral) Virasoro invariance of the tree-level MHV graviton scattering amplitudes	Banerjee S., Institute of Physics,	Physical Sciences	Journal of High Energy Physics	2022	4	347
Understanding the effect of irradiation temperature on microstructural evolution of 20MnMoNi55 steel		Engineering Sciences	Scientific Reports	2022	0	280
Hydrogeochemical characterization and evaluation of subsurface water quality in the Proterozoic Cuddapah Basin, Andhra Pradesh, India	Rana B.K., Homi Bhabha Nationa	Chemical Sciences	Environmental Monitoring and Assessment	2022	2	132
High-spin states of 204 At: isomeric states and shears band structure	Kanjilal D., Department of Physic	Physical Sciences	European Physical Journal A	2022	0	105
Unique selectivity reversal between Am ³⁺ and Eu ³⁺ ions by incorporation of alkyl branching in diglycolamide derivatives: DFT validation of experimental results	Bhattacharyya A., Radiochemistr	Chemical Sciences	New Journal of Chemistry	2022	0	131
Revealing Eu ³⁺ -doped yttrium pyrogermanate as a soft UV excitable phosphor: retaining the pros of the commercial phosphor and compensating for the cons	Tyagi A., Chemistry Division, Bha	Chemical Sciences	New Journal of Chemistry	2022	0	131
Glassy disorder-induced effects in noisy dynamics of Bose-Hubbard and Fermi-Hubbard systems	Sarkar S., Institute for Quantum	Physical Sciences	Journal of Physics B: Atomic, Molecular and Optical Physics	2022	0	123
Structural, optical and vacancies investigations of Li-doped ZnO	Rajput P., Beamline Developmen	Physical Sciences	Journal of Nanoparticle Research	2022	3	137
Displaced fat-jets and tracks to probe boosted right-handed neutrinos in the U(1) B-L model	Padhan R., Institute of Physics, S	Physical Sciences	European Physical Journal C	2022	3	108
Improving Vibrational Spectroscopy Prospects In Frontline Clinical Diagnosis: Fourier Transform Infrared on Buccal Mucosa Cancer	Duckworth E., Swansea Universi	Life Sciences	Analytical Chemistry	2022	1	366
Benzoic acid derivatives under pressure: a Raman spectroscopic overview	Murli C., High Pressure and Sync	Physical Sciences	Bulletin of Materials Science	2022	1	81
Understanding fission fragment mass distributions in a shape-modified random neck rupture model	Sawant Y., Nuclear Physics Divisi	Physical Sciences	Pramana - Journal of Physics	2022	0	18
Cost Effective Method for gDNA Isolation from the Cecal Content and High Yield Procedure for RNA Isolation from the Colonic Tissue of Mice	Mukhopadhyay S., School of Bio	Life Sciences	Bio-protocol	2022	0	9
Uniform oxidation in steam and nodular corrosion in gas phase of Zr-2.5Nb pressure tube material - effect of nature of initial oxide	Nouduru S.K., Materials Processi	Engineering Sciences	Journal of Nuclear Materials	2022	1	189
Understanding the coordination behavior of quaternary ammonium and phosphonium nitrate ionic liquids under gamma irradiation: A combined spectroscopic investigation	Rout A., Materials Chemistry & A	Chemical Sciences	Journal of Molecular Liquids	2022	0	150
Magnetic structure and properties of the vanthoffite mineral Na ₆ Mn(SO ₄) ₄	Dutta A., Solid State and Structu	Physical Sciences	Physical Review B	2022	0	481
In-situ evolution of temperature dependent attenuation coefficients of plasmonic silver nanostructures	Haque S.M., Photonics and Nano	Physical Sciences	Optical Materials	2022	0	113
Investigation of the physical properties of CoRuVAI equiatomic quaternary Heusler alloy using first-principles calculations	Aravindan V., Smart Materials La	Physical Sciences	Physica B: Condensed Matter	2022	4	124
Electrochemical and spectroscopic analysis of thermochemical conversion of UO ₂ to UCl ₃ using AlCl ₃ and Al in LiCl-KCl eutectic	Samanta N., Materials Chemistr	Chemical Sciences	Progress in Nuclear Energy	2022	2	74
BMP-AKT-GSK3 β Signaling Restores Hair Follicle Stem Cells Decrease Associated with Loss of Sfrp1	Sunkara R.R., Stem Cell Biology C	Life Sciences	Stem Cells	2022	2	245
R -matrix analysis of elastic scattering, phase shifts, and radiative capture reaction cross sections in the α - α system	Chakraborty S., B.A.D.V for Girls	Life Sciences	Physical Review C	2022	0	229
Single-phase flow distribution and mixing in a novel microfluidic header: Experimental and CFD studies	Sen N., Chemical Engineering Div	Engineering Sciences	Chemical Engineering Research and Design	2022	0	117
Unraveling the Complexity of Nano-Dispersoids in the Oxide Dispersion Strengthened Alloy 617	Sinha S.K., Physical Metallurgy D	Physical Sciences	Microscopy and Microanalysis	2022	2	76

Coexisting structural disorder and robust spin-polarization in half-metallic FeMnVAI	Gupta S., Condensed Matter Phys	Physical Sciences	Physical Review B	2022	6	481
The zeroth law of black hole thermodynamics in arbitrary higher derivative theories of gravity	Bhattacharyya S., School of Phys	Physical Sciences	Journal of High Energy Physics	2022	2	247
Estimation of UTS from small punch test using an improved method	Pandey A.V., Homi Bhabha Nat	Mathematical Sciences	International Journal of Pressure Vessels and Piping	2022	3	87
Confronting dark fermion with a doubly charged Higgs in the left-right symmetric model	Dey S., Regional Centre for Accel	Physical Sciences	European Physical Journal C	2022	1	188
Identification of a pyridine derivative of diselenides as a potent inhibitor of the main protease of SARS-CoV-2 through in silico screening and biochemical evaluation	Singh B.G., Radiation & Photoch	Chemical Sciences	New Journal of Chemistry	2022	2	151
4F3-Gaussian hypergeometric series and traces of Frobenius for elliptic curves	Tripathi M., School of Mathemat	Mathematical Sciences	Research in Mathematical Sciences	2022	1	20
Determination of Co 57 ($n, \nu p$) cross sections using the surrogate reaction ratio method	Gandhi R., Nuclear Physics Divisi	Physical Sciences	Physical Review C	2022	1	229
Impact of FDG PET/CT Scan in Changing Management of Well-Differentiated Neuroendocrine Tumors With Ki67 Index Less Than or Equal to 5%	Choudhury S., Department of Nu	Medical and Health Sciences	Clinical Nuclear Medicine	2022	0	64
Insights into the Third Phase Formation Behaviour of N,N-Diododecyl-N',N'-Dioctyl Diglycolamide in n-Dodecane Investigated by Dynamic Light Scattering and FTIR Spectroscopy	Narayanan P., Reprocessing Rese	Chemical Sciences	Chemistry Select	2022	4	51
RAMANUJAN GRAPHS	Kodyalam V., The Institute Of M	Mathematical Sciences	Mathematics Student	2022	0	2
Function of Defects in NH ₂ -MIL-125@PANI@Co3O4 Photocatalyst for Efficient Hydrogen Evolution	Sk S., Department of Energ and	Chemical Sciences	ACS Applied Energy Materials	2022	7	71
Integrated use of regional weather forecasting and crop modeling for water stress assessment on rice yield	Rajasvaranjan T., Indian Instit	Physical Sciences	Scientific Reports	2022	0	282
Omission of Upfront Craniospinal Irradiation in Patients with Low-Risk WNT-pathway Medulloblastoma is Associated with Unacceptably High Risk of Neuraxial Failure	Gupta T., Department of Radiati	Medical and Health Sciences	Clinical Cancer Research	2022	4	362
Very-high-energy flat spectral radio quasar candidates	Malik Z., Department of Physics,	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	1	357
Investigation of the Structural and Optical Properties of Zinc Ferrite Nanoparticles Synthesized via a Green Route	Jogi J.K., Department of Science	Physical Sciences	Journal of Electronic Materials	2022	6	107
Study of efficiency and gain uniformity at different gas flow rates of a quad-GEM detector	Bhattacharyya R., Institute of Ph	Physical Sciences	Journal of Instrumentation	2022	1	85
Negative Longitudinal Piezoelectricity Coexisting with both Negative and Positive Transverse Piezoelectricity in a Hybrid Formate Perovskite	Ghosh P.S., Glass & Advanced M	Physical Sciences	ACS Applied Materials and Interfaces	2022	0	284
Effective Formation of a Mn-ZIF-67 Nanofibrous Network via Electrospinning: An Active Electrocatalyst for OER in Alkaline Medium	Selvasundarasekar S.S., Academ	Physical Sciences	ACS Applied Materials and Interfaces	2022	7	284
Enhanced Thermoelectric Performance in Zn _{1-x} Cd _x Sb ($x = 0-0.375$) Solid Solutions by Dynamic Optimization of Charge Carrier Concentration	Biswas R., Department of Metall	Chemical Sciences	ACS Applied Energy Materials	2022	0	71
Global gyrokinetic simulations of electrostatic microturbulent transport using kinetic electrons in LH2 stellarator	Singh T., Department of Physics,	Physical Sciences	Nuclear Fusion	2022	2	132
Selective and Fast Separation of Cesium Ions by In Situ Synthesized Ammonium Molybdophosphate-Like Moieties in a Polymer Gel	Mhatre A., Radiochemistry Divis	Chemical Sciences	ACS Applied Polymer Materials	2022	0	36
Motility-induced phase separation of self-propelled soft inertial disks	De Karmakar S., Institute for Plas	Physical Sciences	Soft Matter	2022	4	190
Comparison of 68Ga-FAPI PET and 18F-FDG PET Findings in a Patient With Bilateral Breast Cancer of 2 Different Histopathologies	Choudhury S., Department of Nu	Medical and Health Sciences	Clinical Nuclear Medicine	2022	1	64
Transoral Robotic Surgery for Recurrent Tumors of the Upper Aerodigestive Tract (RECU ^T): An International Cohort Study	Hardman J.C., Head and Neck Ur	Medical and Health Sciences	Journal of the National Cancer Institute	2022	3	377
Design of need-based phosphors and scintillators by compositional modulation in the ZnGa _{2-x} Al _x O ₄ :Cr ³⁺ spinel: pure compound versus solid solutions	Gupta S.K., Radiochemistry Divis	Chemical Sciences	Physical Chemistry Chemical Physics	2022	5	272
Discordance Between Histopathologic Grading and Dual-Tracer PET/CT Findings in Metastatic NETs and Outcome of 177Lu-DOTATATE PRRT: Does In Vivo Molecular PET Perform Better from the Viewpoint of Prediction of Tumor Biology?	Adnan A., Radiation Medicine Ce	Medical and Health Sciences	Journal of Nuclear Medicine Technology	2022	4	44
Validation of Convolutional Neural Networks for Fast Determination of Whole-Body Metabolic Tumor Burden in Pediatric Lymphoma	Etchebehere E., University of Ca	Medical and Health Sciences	Journal of nuclear medicine technology	2022	3	44
A systematic investigation on the effect of purity of raw material, crucible and crucible design on the single crystal growth of undoped and Eu doped Sr ₂	Patra G.D., Technical Physics Div	Physical Sciences	Journal of Crystal Growth	2022	0	159
Hierarchical nanostructure investigation of Zeolitic imidazolate Frameworks (ZIF-8 and ZIF-67) multilayers using depth dependent Doppler broadening spectroscopy	Utpalla P., Radiochemistry Divis	Chemical Sciences	Journal of Solid State Chemistry	2022	1	154
Multiple transitions in an infinite range p-spin random crystal field Blume-Capel model	Das S., School of Physical Scienc	Physical Sciences	Physical Review E	2022	0	317
Metallization in hydrogenlike systems under high pressure	Mukherjee N., Department of Ch	Chemical Sciences	Physical Review A	2022	1	281
Thickness-dependent structural and magnetic properties of Fe4N thin films	Seema, UGC-DAE Consortium fo	Physical Sciences	Journal of Magnetism and Magnetic Materials	2022	0	107
Finite-temperature calculation of the isovector giant dipole resonance in Sn 120 using self-consistent inputs	Roy S.K., Physics Group, Variable	Physical Sciences	Physical Review C	2022	0	229
Topology of critical points and Hawking-Page transition	Yerra P.K., Institute of Physics, S	Physical Sciences	Physical Review D	2022	13	378
Enhanced betatron x-ray emission in a laser wakefield accelerator and wiggler due to collective oscillations of electrons	Mishra S., Laser Plasma Division,	Physical Sciences	Physical Review Accelerators and Beams	2022	0	281
Effect of X-ray exposure on nano-mechanical properties of multi-walled carbon nanotube incorporated silicone polymer nanocomposites: An AFM-based study	Vadivel M., Smart Materials Sect	Physical Sciences	Journal of Elastomers and Plastics	2022	1	31
Anisotropic pressure of magnetized quark matter with anomalous magnetic moment	Chaudhuri N., Variable Energy C	Physical Sciences	Physical Review D	2022	2	378
Kinetics of dissolution of simulated (U-Ce) MOX fuel pellet in nitric acid	Augustine E., Reprocessing R&D	Engineering Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	1	73
Lifetimes and transition probabilities for low-lying yrast levels in Te 130,132	Kumar D., Variable Energy Cyclot	Physical Sciences	Physical Review C	2022	0	229
Stability and sedimentation characteristics of water based Al2O3 and TiO2 nanofluids	Mukherjee S., Thermal Research	Engineering Sciences	Proceedings of the Institution of Mechanical Engineers, Part N: Jou	2022	0	29
Explicit Solution of a Non-strictly Hyperbolic System with Discontinuous Flux Using a Scaling Argument	Das A., School of Mathematical S	Applied Systems Analysis	Differential Equations and Dynamical Systems	2022	0	22
A Polynomial Kernel for Bipartite Permutation Vertex Deletion	Derbizi J., Theoretical Computer	Mathematical Sciences	Algorithmica	2022	0	78
Predicting IDH subtype of grade 4 astrocytoma and glioblastoma from tumor radiomic patterns extracted from multiparametric magnetic resonance images using a machine learning approach	Kandalaonkar P., Department o	Medical and Health Sciences	Frontiers in Oncology	2022	3	121
Design and development of LN2 cooled cryopump for application in high heat flux test facility	Mukherjee S.S., Institute for Plas	Physical Sciences	Fusion Engineering and Design	2022	0	87
Robotic esophagectomy and 3-field lymphadenectomy with intraoperative nerve monitoring	Nadkarni S., Thoracic Surgical Or	Medical and Health Sciences	Multimedia manual of cardiothoracic surgery : MMCTS	2022	0	11
Spin dynamics and inverse spin Hall effect study in the metallic Pt/NiMn/CoFeB system	Roy K., Laboratory for Nanomag	Physical Sciences	Physical Chemistry Chemical Physics	2022	1	272

Synthesis, Structural and Raman Investigations of PbNi ₁ /3Nb ₂ /3O ₃ Ceramics	Preeti, Department of Physics, A	Physical Sciences	Transactions of the Indian Ceramic Society	2022	0	22
Studies on electrical properties of Resistive Plate Chamber (RPC)	Das S., Saha Institute of Nuclear	Physical Sciences	Journal of Instrumentation	2022	0	85
Blob tracking and formation in edge and SOL plasmas using Q-factor	Bisal N., Institute for Plasma Res	Physical Sciences	Plasma Physics and Controlled Fusion	2022	1	116
Separation of track- and shower-like energy deposits in ProtoDUNE-SP using a convolutional neural network	Abed Abud A., CERN, The Europe	Physical Sciences	European Physical Journal C	2022	1	188
A 500 kV, 10 kA, 40 ns coaxial Marx generator/pulsar for cable fed flash x-ray system	Patel A.S., Accelerator & Pulse P	Engineering Sciences	Review of Scientific Instruments	2022	0	174
Green laser pumped congruently-grown LiTaO ₃ based singly-resonant optical parametric oscillator	Sahoo R.R., School of Physical Sc	Physical Sciences	Results in Optics	2022	0	9
Deformation and fracture initiation of Ni3Al intermetallic single crystal turbine blade	Paik S., Homi Bhabha National In	Engineering Sciences	Engineering Fracture Mechanics	2022	0	149
Investigation of Velocity Field Inside a Single-Phase Pulsed Sieve Plate Column Using Radioactive Particle Tracking	Pillajetti P., Department of Chem	Engineering Sciences	Industrial and Engineering Chemistry Research	2022	0	245
Complex Mode Dispersion Characteristics of Dielectric Loaded Radially Thick Helix	Pandey A.K., Institute for Plasma	Engineering Sciences	IEEE Transactions on Antennas and Propagation	2022	1	221
The mono-Higgs + MET signal at the Large Hadron Collider: a study on the yy and bb' final states	Bhowmik D., High Energy Nuclea	Physical Sciences	European Physical Journal C	2022	1	188
Temperature-dependent ultrafast solvation dynamics of choline chloride-based deep eutectic solvent (DES) and hydroxyl functionalized room temperature ionic liquids (RTILs): Exploring the difference in solvent response between DES and RTILs	Barik S., School of Chemical Scie	Chemical Sciences	Journal of Molecular Liquids	2022	2	150
Evolution of local atomic structure accompanying devitrification of amorphous Ni-Zr alloy thin films	Bhattacharya D., Solid State Phys	Physical Sciences	Thin Solid Films	2022	0	206
Optimization of Spatial Parameters of a 2.45-GHz Atmospheric Pressure Cold Plasma Jet: Comparison between Multiphysics Simulation and Experimental Results	Goel V., Homi Bhabha National In	Engineering Sciences	IEEE Transactions on Plasma Science	2022	0	114
Influence of compressive strain on the hydrogen storage capabilities of graphene: a density functional theory study	Mahamiya V., Indian Institute of	Physical Sciences	Bulletin of Materials Science	2022	3	81
Perioperative Modified FLOT Versus EOX in Locally Advanced Resectable Gastric and Gastro-Oesophageal Junction Adenocarcinoma: Results of a Matched-Pair Analysis	Ramaswamy A., Department of M	Medical and Health Sciences	Journal of Gastrointestinal Cancer	2022	0	38
On simultaneous approximation of algebraic numbers	Kumar V., Institute of Mathemat	Mathematical Sciences	Mathematika	2022	0	28
Breast Cancer is Significantly Associated with Cancers in The First-and Second-Degree Relatives in Ethnic Mizo-Mongoloid Population, Northeast India	Zodinpuil D., Mizoram University	Life Sciences	National Journal of Community Medicine	2022	1	2
An Analysis of Tolerance and Early Survival Outcomes with Perioperative Modified FLOT in Gastric Cancers	Bhargava P., Department of Med	Medical and Health Sciences	South Asian Journal of Cancer	2022	1	17
Mechanochemical synthesis of an AIE-TICT-ESPT active orange-emissive chemodosimeter for selective detection of hydrogen peroxide in aqueous media and living cells, and solid-phase quantitation using a smartphone	Bhosle A.A., Department of Chem	Chemical Sciences	New Journal of Chemistry	2022	2	131
A prospective, open-label, randomised, parallel design study of 4 generic formulations of intramuscular L-asparaginase in childhood precursor B-cell acute lymphoblastic leukaemia (ALL)	Johnson S., Department of Clinic	Medical and Health Sciences	Cancer Chemotherapy and Pharmacology	2022	0	118
Twisted strings in three-dimensional black holes	Ashok S.K., The Institute of Mat	Physical Sciences	European Physical Journal C	2022	2	188
A combination of a graphene quantum dots-cationic red dye donor-acceptor pair and cucurbit[7]uril as a supramolecular sensor for ultrasensitive detection of cancer biomarkers spermine and spermidine	Bhosle A.A., Department of Chem	Chemical Sciences	Journal of Materials Chemistry B	2022	1	128
Bias-induced surface reconstruction of a MOF-derived bimetallic (Co & V) oxide as an electrocatalyst for water oxidation	Sahoo M.K., School of Chemical	Chemical Sciences	Sustainable Energy and Fuels	2022	1	62
On signs of Hecke eigenvalues of Siegel eigenforms	Kumar A., Department of Mathe	Mathematical Sciences	Mathematika	2022	1	28
Effect of PPO and POPOP activators on the scintillation performance of polystyrene-based scintillator	Alex L., Centre for Crystal Growth	Physical Sciences	Journal of Optoelectronics and Advanced Materials	2022	1	51
Incidence and impact of skip metastasis in the neck in early oral cancer: Reality or a myth?	Gurmeet Singh A., Department o	Medical and Health Sciences	Oral Oncology	2022	1	128
All-scale hierarchical nanostructures and superior valence band convergence lead to ultra-high thermoelectric performance in cubic GeTe	Sarkar D., New Chemistry Unit, I	Physical Sciences	Energy and Environmental Science	2022	5	408
Analysis of energy stability in 6/4 MeV dual energy RF electron linac	Rajan R.N., Homi Bhabha Nation	Engineering Sciences	Journal of Instrumentation	2022	0	85
Development of a simple non-destructive method to quantify low Z elements in ore samples using tantalum as an external current normalizer in external (in-air) PIGE method for Nuclear Forensic applications	Ravi K.P., Radiation Safety Syste	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	0	73
Cautious Artificial Intelligence Improves Outcomes and Trust by Flagging Outlier Cases	Kanse A.S., Department of Elect	Medical and Health Sciences	ICO clinical cancer informatics	2022	1	24
Exploring site-selective photoluminescence of Eu ³⁺ and Tb ³⁺ ions in Sr ₁₀ (PO ₄) ₆ F ₂ and the development of different phosphor materials	Pathak N., Radiochemistry Divisi	Engineering Sciences	Optical Materials	2022	1	113
Theranostic magnetic nanoparticles enhance DNA damage and mitigate doxorubicin-induced cardio-toxicity for effective multi-modal tumor therapy	Shetake N.G., Radiation Biology U	Life Sciences	Biomaterials Advances	2022	5	8
A THENA detector proposal - a totally hermetic electron nucleus apparatus proposed for IP6 at the Electron-Ion Collider	Adam J., Brookhaven National La	Physical Sciences	Journal of Instrumentation	2022	2	85
Development of a numerical model for sector-average plume gamma dose and its validation with dose rate measurements at Kalpakkam NPP site, India	Karmakar S., Environmental Asses	Physical Sciences	Journal of Environmental Radioactivity	2022	1	102
High-pressure studies on pristine and Pb-substituted Bi-based high-temperature superconductor	Gayathri V., Materials Science Gr	Physical Sciences	Bulletin of Materials Science	2022	1	81
Impact of Baryon anti-Baryon annihilation on hyperon (Λ , Λ') production and apparent strangeness enhancement in Λ^- / p^+ heavy ion collisions at SPS energy	Nandy E., Variable Energy Cyclot	Physical Sciences	European Physical Journal A	2022	0	106
Tuning optical bandgap of crystalline MgO by MeV Co ion beam induced defects	Bhakta S., School of Physical Scie	Physical Sciences	Applied Physics A: Materials Science and Processing	2022	1	158
Rashba effects in lead-free ferroelectric semiconductor [CH ₃ PH ₃]SbF ₃	Kashikar R., Department of Phys	Physical Sciences	Physical Review Materials	2022	0	59
The prevalence of cognitive impairment in older Indian persons with cancer and brain metastases	Dhanawat A., Department of Me	Medical and Health Sciences	ecancermedicallscience	2022	0	42
Capacity of entanglement for a nonlocal Hamiltonian	Shrimali D., Harish-Chandra Rese	Physical Sciences	Physical Review A	2022	1	201
TRPV1 channel in spermatozoa is a molecular target for ROS-mediated sperm dysfunction and differentially expressed in both natural and ART pregnancy failure	Swain N., Redox Biology & Prote	Life Sciences	Frontiers in Cell and Developmental Biology	2022	0	87
Pre-irradiation of surfactants to enhance their capacity to solubilise drugs and dyes	Dash S., Department of Chemist	Chemical Sciences	Journal of the Indian Chemical Society	2022	0	9
APT based reliable quantification of Cr-rich phase separation and its relationship with mechanical properties in thermally aged Fe-20 at.% Cr alloy	Sarkar S.K., Materials Science Dh	Engineering Sciences	Journal of Nuclear Materials	2022	0	189
TRPV4 acts as a mitochondrial Ca ²⁺ -importer and regulates mitochondrial temperature and metabolism	Kanta Acharya T., National Instit	Life Sciences	Mitochondrion	2022	5	102
Pushforwards of Chow groups of smooth ample divisors, with an emphasis on Jacobian varieties	Banerjee K., School of Mathemat	Mathematical Sciences	Mathematische Nachrichten	2022	0	52
CoFe ₂ O ₄ -APTES nanocomposite for the selective determination of tacrolimus in dosage forms: Perspectives from computational studies	Agnihotri A.S., Department of Ch	Physical Sciences	Surfaces and Interfaces	2022	1	49

Preparation of radiolabeled erlotinib analogues and analysis of the effect of linkers	Jain A., Radiopharmaceuticals Division	Chemical Sciences	Bioorganic and Medicinal Chemistry Letters	2022	0	160
High ionic conductivity and ion conduction mechanism in 2F-8 based quasi-solid-state electrolytes: a positron annihilation and broadband dielectric spectroscopy study	Utpalla P., Radiochemistry Division	Chemical Sciences	Physical Chemistry Chemical Physics	2022	2	372
Influence of second-order saddles on reaction mechanisms	Yadav K., School of Chemical Sciences	Chemical Sciences	Faraday Discussions	2022	2	115
Radiation stability of two extraction chromatography resin materials containing substituted diglycolamide ligands in an ionic liquid	Yadav A.G., Advanced Fuel Fabrication	Chemical Sciences	Journal of Chromatography A	2022	0	244
Cu-Catalyzed Synthesis of Alkylaminothiopyran Sulfones as Pseudomonas Aeruginosa Quorum Sensing Inhibitors Targeting lasI/R QS Circuitry	Meher S., School of Chemical Sciences	Chemical Sciences	Chemistry - An Asian Journal	2022	2	118
Signatures of spin-liquid state in a 3D frustrated lattice compound $K_2Fe_2(P_2O_7)_3$ with $S = 5/2$	Boya K., Department of Physics	Physical Sciences	APL Materials	2022	1	76
Pair invariant mass to isolate background in the search for the chiral magnetic effect in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV	Abdallah M.S., American University	Physical Sciences	Physical Review C	2022	5	229
Clinical Robotic Surgery Association (India Chapter) and Indian rectal cancer expert group's practical consensus statements for surgical management of localized and locally advanced rectal cancer	Somashekhar S.P., Department of Surgery	Medical and Health Sciences	Frontiers in Oncology	2022	0	121
Production of $K\alpha(8920)$ and $\phi(1020)$ in pp and Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Acharya S., Variable Energy Cyclotron	Physical Sciences	Physical Review C	2022	8	229
Voices: voice quality after transoral CO2 laser surgery versus single vocal cord irradiation for unilateral stage 0 and I glottic larynx cancer—a randomized phase III trial	Reinhardt P., Department of Radiation Oncology	Medical and Health Sciences	Trials	2022	1	91
Fabrication of Na _{0.4} MnO ₂ Microrods for Room-Temperature Oxidation of Sulfurous Gases	Gupta N.K., Department of Environmental Engineering	Chemical Sciences	ACS Omega	2022	3	77
A Machine Learning Approach for Predicting Black Hole Mass in Blazars Using Broadband Emission Model Parameters	Singh K.K., Astrophysical Science Centre	Physical Sciences	Universe	2022	1	33
Compressibility studies of RE6UO12 at extreme conditions of pressure	Shukla B., High Pressure Physics	Engineering Sciences	Bulletin of Materials Science	2022	0	81
Study of natU(p,n) reaction at incident proton energies between 8 and 20 MeV with natC backing material	Paul S., Health Physics Division	Physical Sciences	European Physical Journal Plus	2022	0	76
Nitric acid concentration strongly influences low level uranium determination on PEDOT-PSS coated glassy carbon electrodes	Agarwal R., Homi Bhabha National Institute	Chemical Sciences	Analyst	2022	0	169
Histopathological Lung Cancer Detection Using Enhanced Grasshopper Optimization Algorithm with Random Forest	Pradhan M., P.G. Department of Computer Science	Mathematical Sciences	International Journal of Intelligent Engineering and Systems	2022	1	24
Epidemiology, Management, and Outcomes of Sepsis in ICUs among Countries of Differing National Wealth across Asia	Li A., Division of Respiratory and Critical Care	Medical and Health Sciences	American journal of respiratory and critical care medicine	2022	8	404
Characteristics and clinical outcomes of pulmonary sarcomatoid carcinoma: experience from Tata Memorial Centre	Bondilil S.K., Tata Memorial Hospital	Medical and Health Sciences	ecancermedicalscience	2022	0	42
Relative importance of composition structures and biologically meaningful logics in bipartite Boolean models of gene regulation	Yadav Y., The Institute of Mathematics	Life Sciences	Scientific Reports	2022	0	282
Revealing the electrochemical performance of a manganese phosphite/RGO hybrid in acidic media	Padhy A., National Institute of Science	Chemical Sciences	Dalton Transactions	2022	2	203
Effect of signal to noise ratio on luminescence property of YPO ₄ :Eu	Srivastava M., Chemistry Division	Chemical Sciences	Materials Letters: X	2022	2	8
Direct determination of ultra-trace sodium in reactor secondary coolant waters and other waters by electrolyte cathode discharge atomic emission spectrometry	Reddy M.A., National Centre for Atomic Spectrometry	Chemical Sciences	Spectrochimica Acta - Part B Atomic Spectroscopy	2022	0	124
TRPV4 interacts with MFN2 and facilitates endoplasmic reticulum-mitochondrial contact points for Ca ²⁺ -buffering	Acharya T.K., National Institute of Life Sciences	Life Sciences	Life Sciences	2022	2	180
Enhancement of thermal performance of engine coolant using silica nanoparticles	Mukherjee S., Thermal Research	Engineering Sciences	Sadhana - Academy Proceedings in Engineering Sciences	2022	0	15
Magnetic field measurements on the mini-ICAL detector using Hall probes	Khindri H., The Institute of Mathematics	Physical Sciences	Journal of Instrumentation	2022	2	85
Milne spacetime with conical defect: Some holographic studies	Mishra S., National Institute of Science	Physical Sciences	Physical Review D	2022	0	378
Superstrong Chemical Bonding of Noble Gases with Oxidoboron (BO+) and Sulfidoboron (BS+)	Kuntar S.P., Homi Bhabha National Institute	Chemical Sciences	Journal of Physical Chemistry A	2022	3	250
Kinetic model description of dissipation and recovery in collagen fibrils under cyclic loading	Suhail A., The Institute of Mathematics	Physical Sciences	Physical Review E	2022	0	317
A Longitudinal Study to Reexamine the Mental Health Impact on Radiation Oncology Health Care Workers with the Launch of COVID-19 Vaccination Strategies in India	Wadasadawala T., Department of Radiation Oncology	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Fatigue Failure of Stainless Steel 316 Wire Rope Caused by Clamping	Chandra K., Materials Processing	Engineering Sciences	Journal of Failure Analysis and Prevention	2022	0	31
pH-responsive sustained delivery of doxorubicin using aminated and PEGylated mesoporous silica nanoparticles leads to enhanced antitumor efficacy in pre-clinical orthotopic breast cancer model	Mal A., Molecular Functional Imaging	Life Sciences	Journal of Drug Delivery Science and Technology	2022	3	63
Li-Ion Diffusion Correlations in UAIGeO ₄ : Quasielastic Neutron Scattering and Ab Initio Simulation	Kumar S., Solid State Physics Division	Chemical Sciences	ACS Applied Energy Materials	2022	0	71
Effect of U on the photoluminescence of Pr and structural properties of U/Pr doped and co-doped U ₂ O ₃ -ZnO-SrO borophosphate glass	Ramakrishna P., Indira Gandhi Centre	Chemical Sciences	Optical Materials	2022	2	113
Enhanced Thermoelectric Performance of Nanostructured Nickel-Doped Ag ₂ Te	Sharma V., UGC-DAE Consortium	Chemical Sciences	ACS Applied Energy Materials	2022	0	71
An insight into the sequestration of tetra and hexavalent actinides by tri ethoxysilyl-amino-propyl-3-oxa-glutaric acid (SAOGA) functionalized titania	Pahan S., Process Development	Chemical Sciences	Physical Chemistry Chemical Physics	2022	1	372
Synthesis of low oxidation state zinc(II) complexes and their catalytic studies in the dehydroborylation of terminal alkynes	Sahoo R.K., School of Chemical Sciences	Chemical Sciences	Dalton Transactions	2022	5	203
Equimolar ZnO-CdS nanocomposite for enhanced photocatalytic performance	Saxena N., Amity Institute of Nanotechnology	Physical Sciences	Chemical Physics Impact	2022	3	6
Signature of superconducting onset in presence of large magnetoresistance in type-II Dirac semimetal candidate Ir ₂ In ₈ S	Malavi P., High Pressure and Synthesis	Physical Sciences	New Journal of Physics	2022	1	193
Synthesis of boron-doped carbon nanotubes by thermocatalytic decomposition of ethanol using a floating catalyst chemical vapor deposition method: kinetic study	Sawant S.V., Department of Chemical Engineering	Engineering Sciences	Reaction Chemistry and Engineering	2022	0	44
Relating microstructures of hierarchical tertiary phases with corrosion performance in a super duplex stainless steel	Sarkar A., Department of Metallurgical Engineering	Engineering Sciences	Materials Characterization	2022	0	114
Flux vacua with approximate flat directions	Cicoli M., Dipartimento di Fisica	Physical Sciences	Journal of High Energy Physics	2022	3	247
Catechism (Quiz 17)	Rekhi B., Department of Surgical Pathology	Medical and Health Sciences	Indian Journal of Pathology and Microbiology	2022	0	33
An audit of frozen sections for suspected gastrointestinal malignancies in a tertiary referral hospital in India	Jadhav A.S., Department of Pathology	Medical and Health Sciences	Indian Journal of Pathology and Microbiology	2022	0	33
Synthesis of photoresponsive and photoemissive ultrathin 2D nanosheets of In ₂ S ₃ achieved through a new single source molecular precursor	Karmakar G., Chemistry Division	Chemical Sciences	RSC Advances	2022	5	189
Electronic Excitations and Low-Energy Electron-Induced Scattering Studies of Acrylonitrile (CH ₂ CHCN)	Vadhel S., V.P. & R.P.T.P. Science Centre	Physical Sciences	Journal of Physical Chemistry A	2022	3	256
A facile synthetic route toward phase-pure colloidal Cu ₂ GeS ₃ nanostructures mediated through metal xanthate precursors	Shah A.Y., Chemistry Division, Bhabha Atomic	Chemical Sciences	New Journal of Chemistry	2022	2	121

Rational Designing of Co-N-C Electrocatalysts for Comprehensive Elucidation of Intrinsic and Extrinsic Activities in the Oxygen Reduction Reaction	Bisen O.Y., Materials Research C	Physical Sciences	ACS Applied Energy Materials	2022	0	71
The transition from thermionic to space charge limited emission for needle-like surfaces-A particle-in-cell simulation study	Singh G., Bhabha Atomic Resear	Physical Sciences	Physics of Plasmas	2022	0	169
Quantifying the effects of dissipation and temperature on dynamics of a superconducting qubit-cavity system	Shukla P., Nuclear Physics Divisi	Physical Sciences	European Physical Journal Plus	2022	0	76
Synthesis of α,β -Unsaturated Ketones in Water: The Claisen-Schmidt Condensation Revisited	Choudhury S.S., School of Chemi	Chemical Sciences	ACS Sustainable Chemistry and Engineering	2022	2	155
Large area multi-filamentary plasma source for large volume plasma device-upgrade	Sanyasi A.K., Institute for Plasma	Engineering Sciences	Review of Scientific Instruments	2022	0	174
Tributyl phosphate degradation by Sphingobium sp. RMS5 in large-scale stirred tank reactors	Rangu S.S., Applied Genomics Se	Engineering Sciences	Biomass Conversion and Biorefinery	2022	0	39
Improved thermoelectric performance of Ag ₂ XAl ₂ Se through formation of AgAl phase	Ahmad S., Nuclear Research Lab	Physical Sciences	Applied Physics Letters	2022	1	466
Reduced expression of FRG1 facilitates breast cancer progression via GM-CSF/MEX-ERK axis by abating FRG1 mediated transcriptional repression of GM-CSF	Mukherjee B., National Institute	Life Sciences	Cell Death Discovery	2022	2	49
Aluminium-Catalyzed Selective Reduction of Heteroalkenes Through Hydroboration: Amide/Thioamide/Selenoamide Bond Construction and C-X (X=O, S, Se) Bond Activation**	Sarkar N., School of Chemical Sci	Chemical Sciences	European Journal of Organic Chemistry	2022	0	167
Development of ICP-OES Based Analytical Method with Prior Preferential Removal of Emission Rich Matrix by Elevated Temperature Ionic Liquid Based Extractive Mass Transfer for Determination of Metallic Constituents in U-Mo Alloy: The Next Generation Nuclear Fuel	Bhoir S., Radiochemistry Division	Chemical Sciences	Chemistry Select	2022	0	51
Remote laser spot welding of AISI 430 sheets by fiber lasers - A phenomenal effect in refining weld microstructure with nanosecond pulses	Kumar A., Fuel Fabrication, Bhab	Engineering Sciences	Journal of Laser Applications	2022	0	61
Effect of TBP on the Coordination Process of Eu(III) with T2EH2G: A Luminescence Spectroscopy Investigation	Rout A., Materials Chemistry & M	Chemical Sciences	Chemistry Select	2022	0	51
Dynamic recrystallization of grains during creep deformation of alloy 690 at 800–1000 °C	Sourabh K., Homi Bhabha Nation	Engineering Sciences	Materials Characterization	2022	1	114
Noise resilience in path-polarization hyperentangled probe states	Sairam A.K., Quantum Optics & I	Physical Sciences	Journal of Physics B: Atomic, Molecular and Optical Physics	2022	0	113
Generating highly entangled states via discrete-time quantum walks with Parrondo sequences	Panda D.K., School of Physical Sc	Physical Sciences	Physica A: Statistical Mechanics and its Applications	2022	2	178
Hydraulic design optimization of spherical header for future fast reactors of India	Chauhan A.K., Thermal Hydraulic	Physical Sciences	Nuclear Engineering and Design	2022	0	115
The Indian Pulsar Timing Array: First data release	Tarafdar P., The Institute of Mat	Physical Sciences	Publications of the Astronomical Society of Australia	2022	14	74
Reentrant phase separation of a sparse collection of nonreciprocally aligning self-propelled disks	De Karmakar S., Institute for Pla	Physical Sciences	Physical Review E	2022	1	317
Late toxicity within a Phase III clinical trial of IG-IMRT in cervix cancer (PARCER): Reanalysis with time weighted adverse event reporting (MOSES)	Supriya C., Department of Radiat	Medical and Health Sciences	Radiotherapy and Oncology	2022	1	174
Isotope selective three-step photoionization of ¹⁷⁷ Lu	Suryanarayana M.V., Bhabha Ato	Physical Sciences	Journal of the Optical Society of America B: Optical Physics	2022	1	151
Third-order nonlinear optical manifestations in an intramolecular proton transfer fluorophore due to Tamm-plasmon based broadband optical absorbers	Kumari A., School of Physical Sc	Physical Sciences	Journal of the Optical Society of America B: Optical Physics	2022	0	151
Evaluation of Antioxidant Potential and UV Protective Properties of Four Bacterial Pigments	Koшти R., Department of Microb	Life Sciences	Microbiology and Biotechnology Letters	2022	0	21
An aggregation induced emission based simple and sensitive fluorescence 'Turn-On' method for monitoring sodium hexa-meta-phosphate, a food preservative	Kaur J., Radiation& Photochemis	Chemical Sciences	Microchemical Journal	2022	0	99
Photothermal therapy (PTT) is an effective treatment measure against solid tumors which fails to respond conventional chemo/radiation therapies in clinic	Mishra S.K., Molecular Function	Life Sciences	Biomaterials Advances	2022	3	8
Stimulated polariton scattering in an Yb laser pumped lithium niobate based continuous-wave singly resonant optical parametric oscillator	Sahoo R.R., School of Physical Sc	Physical Sciences	Journal of the Optical Society of America B: Optical Physics	2022	0	151
Bowel Functional Outcomes after Long-Course or Short-Course Radiation for Advanced Rectal Cancers: A Propensity-Matched Analysis	Kazi M., Department of Surgical	Medical and Health Sciences	Diseases of the Colon and Rectum	2022	3	173
Ultrafast insights into full-colour light-emitting C-Dots	Ghorai N., Institute of Nano Scie	Chemical Sciences	Nanoscale	2022	3	268
Probing bipyramid microstructure of pure and Dy-doped HoMnO ₃ using high pressure and low temperature studies	Roy A., High Pressure and Synch	Physical Sciences	Bulletin of Materials Science	2022	0	81
In silico identification of potential inhibitors of vital monkeypox virus proteins from FDA approved drugs	Sahoo A.K., The Institute of Mat	Life Sciences	Molecular Diversity	2022	11	62
Photo-responsive bismuth ferrite nanoparticle-mediated catalytic degradation of rhodamine B and pathogenic E. coli in aqueous medium and its extraction using external magnetic stimulation after successful treatment	Roy J., Department of Physics, Ja	Physical Sciences	Dalton Transactions	2022	2	203
Comorbidity between lung cancer and COVID-19 pneumonia: role of immunoregulatory gene transcripts in high ACE2-expressing normal lung	Lazar V., Worldwide Innovative N	Medical and Health Sciences	Therapeutic Advances in Medical Oncology	2022	1	61
A Practice Pilot Survey on the Current Use of Corticosteroid Therapy in Brain Tumor Patients	Panda P.K., Department of Medi	Medical and Health Sciences	Neurology India	2022	0	53
Extramammary Paget's Disease of Vulva: A Clinicopathological Case Series of a Rare Disease	Deshpande G., Department of P	Medical and Health Sciences	Indian Journal of Gynecological Oncology	2022	0	5
Role of ligand spacer length of a tripodal amide on uranium(vi) and plutonium(iv) complexation: synthesis, solvent extraction, liquid membrane transport and theoretical studies	Karak A., INRPO, FF, Nuclear Rec	Chemical Sciences	New Journal of Chemistry	2022	1	131
Awake Mapping Unmasks Functional Substrates Guiding Safe Radical Resection of "Nondominant" Right Insular Glioma Using a Transopercular Approach	Biswas C., Department of Surgic	Medical and Health Sciences	Neurology India	2022	0	53
Visible-Light Promoted Regioselective Oxygenation of Quinoxalin-2(1H)-ones Using O ₂ as an Oxidant	Sau S., School of Chemical Scienc	Chemical Sciences	Journal of Organic Chemistry	2022	4	239
Role of slow out-of-equilibrium modes on the dynamic structure factor near the QCD critical point	Sarwar G., Theory Division, Phys	Physical Sciences	Physical Review D	2022	0	176
Examples of multiparameter CCR flows with non-trivial index	Sarkar P., Institute of Mathemat	Mathematical Sciences	Proceedings of the Edinburgh Mathematical Society	2022	0	36
Ancillary-Ligand-Assisted Variation in Nucleonities Leading to the Formation of Di-, Tri-, and Tetranuclear Copper(II) Complexes with Multifaceted Carboxylate Coordination Chemistry	Majumder A., Department of Ch	Chemical Sciences	ACS Omega	2022	2	77
Type II seesaw model: Searching for the LHC-elusive low-mass triplet Higgs bosons at e-e+ colliders	Ashanujjaman S., Institute of Ph	Physical Sciences	Physical Review D	2022	4	176
Evidence for prolate-oblate shape coexistence in the odd-A Br38 3573 nucleus	Bhattacharya S., Department of	Physical Sciences	Physical Review C	2022	1	229
Freezing phase transition in hard-core lattice gases on the triangular lattice with exclusion up to seventh next-nearest neighbor	Jaleel A.A.A., Institute of Mather	Physical Sciences	Physical Review E	2022	2	317
Modulation of Diffusion Mechanism and Its Correlation with Complexation in Aqueous Deep Eutectic Solvents	Srinivasan H., Solid State Physic	Physical Sciences	Journal of Physical Chemistry B	2022	0	411
Medium-dependent relativistic NN potential: Application to fusion dynamics	Bhuyan M., Department of Phys	Physical Sciences	Physical Review C	2022	1	229
Expression levels and patterns of B-cell maturation antigen in newly diagnosed and relapsed multiple myeloma patients from Indian subcontinent	Sriram H., Hematopathology Lab	Medical and Health Sciences	Cytometry Part B - Clinical Cytometry	2022	1	136
Effect of radiation-reaction on charged particle dynamics in a focused electromagnetic wave	Mishra S.K., Institute for Plasma	Physical Sciences	Scientific Reports	2022	0	282

Autologous Ovary Transplant in Pelvic Sarcoma: Two Case Reports and Review of Literature on Gonad Transplant	Shylasree T.S., Department of G	Medical and Health Sciences	Indian Journal of Gynecologic Oncology	2022	0	5
How 1, n-Bis(3-alkylimidazolium-1-yl) Alkane Interacts with the Phospholipid Membrane and Impacts the Toxicity of Dicationic Ionic Liquids	Kaur N., Department of Chemist	Physical Sciences	Langmuir	2022	1	359
Non-local spin entanglement in a fermionic chain	Jana S., Institute of Physics Sach	Physical Sciences	Quantum Information Processing	2022	0	48
Quantum speed limits for observables	Mohan B., Harish-Chandra Resea	Physical Sciences	Physical Review A	2022	4	261
Emergent many-body composite excitations of interacting spin-1/2 trimers	Bera A.K., Solid State Physics Div	Physical Sciences	Nature Communications	2022	2	466
Effects of an isovector scalar meson on the equation of state of dense matter within a relativistic mean field model	Thakur V., Department of Physic	Physical Sciences	Physical Review C	2022	4	229
From moments of the distribution function to hydrodynamics: The nonconformal case	Jaiswal S., Department of Nuclea	Physical Sciences	Physical Review C	2022	5	229
Optimisation of nuclear reactor primary coolant design and maintenance parameters	Wootton M.J., Faculty of Engine	Engineering Sciences	Applied Stochastic Models in Business and Industry	2022	0	44
Chiral condensate from a hadron resonance gas model	Biswas D., The Institute of Math	Physical Sciences	Physical Review C	2022	1	229
High yield selective electrochemical conversion of N2 to NH3 via morphology controlled silver phosphate under ambient conditions	Gupta D., Department of Chemis	Physical Sciences	Journal of Materials Chemistry A	2022	5	276
Role of phonon mode in the enhancement of ferroelectric polarization in a perovskite-based eco-friendly functional material	Dubey D.N., Department of Phys	Physical Sciences	EPL	2022	1	170
ISCCM Guidelines for Hemodynamic Monitoring in the Critically Ill	Kulkarni A.P., Division of Critic	Medical and Health Sciences	Indian Journal of Critical Care Medicine	2022	0	37
Competencies for Point-of-care Ultrasonography in ICU: An ISCCM Expert Panel Practice Recommendation	Srinivasan S., Department of Crit	Medical and Health Sciences	Indian Journal of Critical Care Medicine	2022	1	37
Guidelines for the Use of Procalcitonin for Rational Use of Antibiotics	Khilnani G.C., Department of Pul	Medical and Health Sciences	Indian Journal of Critical Care Medicine	2022	0	37
Constraining PBH mass distributions from 21cm brightness temperature results and an analytical mapping between probability distribution of 21cm signal and PBH masses	Mukhopadhyay U., Theory Divisi	Physical Sciences	Journal of Cosmology and Astroparticle Physics	2022	2	141
Assessment of activation volume in 304L SS at high temperatures	Christopher J., Materials Develop	Engineering Sciences	Materials Science and Engineering: A	2022	0	267
The effect of Cr content on the microstructural and textural evolution and the mechanical properties of Ni-Cr binary alloys	Keskar N., Mechanical Metallurg	Engineering Sciences	Materials Today Communications	2022	0	42
Multimodal approach to characterize the tetrameric form of human PML-RBCC domain and ATO-mediated conformational changes	Dubey S., Advanced Centre for T	Life Sciences	International Journal of Biological Macromolecules	2022	0	166
Constitutive models for flow stress based on composite variables analogous to Zener-Hollomon parameter	Ahmedabadi P.M., Materials Pro	Engineering Sciences	Materials Today Communications	2022	1	42
Prompt emission of γ -rays and neutrons from the fast neutron induced fission of ^{232}Th at neutron energies near and above the fission threshold	De S., Nuclear Physics Division, B	Physical Sciences	European Physical Journal A	2022	0	106
Single atom functionalization in vanadium dichalcogenide monolayers: towards enhanced electrocatalytic activity	Tomar S., Harish-Chandra Resea	Physical Sciences	Sustainable Energy and Fuels	2022	2	63
Recommendations for Evaluation and Selection of Deceased Organ Donor: Position Statement of ISCCM	Zirpe K.G., Department of Neuro	Medical and Health Sciences	Indian Journal of Critical Care Medicine	2022	0	37
1D/2D Hybrid Te/Graphene and Te/MoS ₂ : Multifaceted Broadband Photonics and Green-Energy Applications	Maji T.K., Department of Physics	Physical Sciences	ACS Applied Materials and Interfaces	2022	0	284
Monitoring of the recovery of ion-damaged 4H-SiC with in situ synchrotron X-ray diffraction as a tool for strain-engineering	Chakravorty A., Inter-University	Physical Sciences	Journal of Materials Science	2022	0	154
Remarkable enhancement in catechol sensing by the decoration of selective transition metals in biphenylene sheet: A systematic first-principles study	Mahamiya V., Indian Institute of	Physical Sciences	Journal of Physics D: Applied Physics	2022	2	230
Catastrophic expenditure and treatment attrition in patients seeking comprehensive colorectal cancer treatment in India: A prospective multicentre study	Bose B., All India Institute of Me	Medical and Health Sciences	The Lancet Regional Health - Southeast Asia	2022	2	31
Relativistic Spin Magnetohydrodynamics	Bhadury S., School of Physical Sc	Physical Sciences	Physical Review Letters	2022	11	674
Modelling the first wave of COVID-19 in India	Hazra D.K., The Institute of Mat	Life Sciences	PLoS Computational Biology	2022	2	205
Long-Term Outcomes in Survivors of Childhood Cancer: A 30-Year Experience From India	Prasad M., Division of Paediatric	Medical and Health Sciences	JCO global oncology	2022	2	33
Congenital Melanocytic Nevi Syndrome with Leptomenigeal Melanoma	Mohite A., Department of Nucle	Medical and Health Sciences	Clinical Nuclear Medicine	2022	1	64
"hood Sign" in Nuclear Medicine: An Unusual Presentation of Mantle Cell Lymphoma as Detected on FDG PET/CT	Prakash A., Department of Nucle	Medical and Health Sciences	Clinical Nuclear Medicine	2022	1	64
Bone metastases in prostate cancer - Gallium-68-labeled prostate-specific membrane antigen or Fluorine-18 sodium fluoride PET/computed tomography - The better tracer?	Agrawal A., Department of Nucle	Medical and Health Sciences	Nuclear Medicine Communications	2022	3	78
Studies on high power second-harmonic deep-UV generation from a high repetition-rate Cu-HBr laser	Biswal R., Fiber Sensors and Opti	Physical Sciences	Laser Physics	2022	0	40
Fabrication of free standing graphene oxide membranes for efficient adsorptive removal of cationic dyes	Narayanam P.K., Materials Chem	Chemical Sciences	Journal of Molecular Liquids	2022	1	150
Neutronics simulation of China Experimental Fast Reactor start-up tests using FARCOS and ERANOS 2.1 code systems	Bachchan A., Reactor Design and	Physical Sciences	Nuclear Engineering and Design	2022	0	115
High pressure phase transitions in diglycine perchlorate: a Raman spectroscopic study	Bhatt H., High Pressure and Sync	Physical Sciences	Bulletin of Materials Science	2022	0	81
Two-Dimensional Amorphous Cobalt Oxide Nanosheets/N-Doped Carbon Composites for Efficient Water Splitting in Alkaline Medium	Samanta R., School of Chemical S	Chemical Sciences	ACS Applied Nano Materials	2022	2	64
Integrated proteomics and phosphoproteomics revealed druggable kinases in neoadjuvant chemotherapy resistant tongue cancer	George I.A., Institute of Bioinfor	Medical and Health Sciences	Frontiers in Cell and Developmental Biology	2022	0	87
Fundamental Principles toward Designing High Na-Containing P2-Structured "layered" Na-Transition Metal Oxides as High-Performance Cathode Materials for Na-Ion Batteries	Kumar B.S., High Temperature an	Physical Sciences	Chemistry of Materials	2022	2	409
Inferring the nuclear symmetry energy at suprasaturation density from neutrino cooling	Malik T., CFISUC, Department of	Physical Sciences	Physical Review C	2022	3	229
Diffusion-Mediated Morphological Transformation in Bifunctional Mn ₂ O ₃ /CuO-(VO) ₃ (PO ₄) ₂ ·6H ₂ O for Enhanced Electrochemical Water Splitting	Bhowmick S., Materials Science I	Physical Sciences	ACS Applied Materials and Interfaces	2022	3	284
Starch-Assisted Synthesis of Bi ₂ S ₃ Nanoparticles for Enhanced Dielectric and Antibacterial Applications	Uddin I., Department of Physics,	Physical Sciences	ACS Omega	2022	4	77
Vanadium Dioxide-Based Miniaturized Thermal Sensors: Humidity Effects on Phase Change and Sensitivity	Elango P.F.M., Functional Mater	Physical Sciences	ACS Applied Electronic Materials	2022	2	36
Simulation study of tau neutrino events at the ICAL detector in INO	Senthil R.T., The Institute of Mat	Physical Sciences	Physical Review D	2022	0	378
A metal-free approach to highly functionalized 3-substituted-3-arylbenzofuran-2(3H)-ones	Dhotare B.B., Bio-Organic Divisio	Chemical Sciences	New Journal of Chemistry	2022	0	131
Development of Core@Shell γ -Fe ₂ O ₃ @Mn ₂ O ₃ Nanoparticles for Hyperthermia, Targeting, and Imaging Applications	Joshi R., Chemistry Division, Bhal	Chemical Sciences	ACS Applied Bio Materials	2022	0	43

Novel logarithmic corrections to black hole entropy	Ghosh A., School of Basic Scienc	Physical Sciences	Classical and Quantum Gravity	2022	1	179
Potential reversible hydrogen storage in Li-decorated carbon allotrope PAI-Graphene: A first-principles study	Mahamiya V., Indian Institute of	Physical Sciences	International Journal of Hydrogen Energy	2022	4	248
Sonic velocity measurement in molten Pb-Li (16) at high temperature for ultrasonic flowmeter applications	Sahu S., Institute for Plasma Res	Physical Sciences	Flow Measurement and Instrumentation	2022	0	87
Anisotropy and variability in thermal creep behaviour of Zr-2.5Nb pressure tube	Patel V., Mechanical Metallurgy	Engineering Sciences	International Journal of Pressure Vessels and Piping	2022	2	87
Toward the real-time evolution of gauge-invariant Z2 and U (1) quantum link models on noisy intermediate-scale quantum hardware with error mitigation	Huffman E., Perimeter Institute	Physical Sciences	Physical Review D	2022	2	378
Impurity reveals distinct operational phases in quantum thermodynamic cycles	Prakash A., National Institute of	Physical Sciences	Physical Review E	2022	0	317
High pressure investigations on neutron irradiated ferroboron	Kumar A., Materials Science Gro	Physical Sciences	Bulletin of Materials Science	2022	0	81
Tracing Local Disorder in Near-Infrared-Upconverting Crystals of Li+-Doped Gd2O3 through the Gd(III)-O Bond Distance	Verma P., Department of Chemi	Physical Sciences	Journal of Physical Chemistry C	2022	1	323
Ruthenium-catalyzed acceptorless dehydrogenation of heterocycles	Manikpuri D., School of Chemica	Chemical Sciences	Journal of Chemical Sciences	2022	1	58
A Conjecture on Different Central Parts of Binary Trees	Pandey D., School of Mathemat	Mathematical Sciences	Graphs and Combinatorics	2022	0	41
Band gap engineering of TiO2 by Mn doping and the effect of p-TNT: Mn/n-MnO2 heterojunction on photocatalytic applications	Nair P.S., Thin Film Research Lab	Physical Sciences	Applied Physics A: Materials Science and Processing	2022	0	158
Ferromagnetic Ni1-xVxO1-y Nano-Clusters for NO Detection at Room Temperature: A Case of Magnetic Field-Induced Chemiresistive Sensing	Chakraborty N., CSIR-Central Gla	Physical Sciences	ACS Applied Materials and Interfaces	2022	0	284
Mesoscopic architecture enhances communication across the macaque connectome revealing structure-function correspondence in the brain	Pathak A., The Institute of Math	Physical Sciences	Physical Review E	2022	0	317
Numerical investigation of thermal failure of a fuel subassembly foot wall during molten material relocation under various flow blockage scenarios in sodium-cooled fast reactor	Kumar Panigrahi P., Thermal Hyd	Physical Sciences	Nuclear Engineering and Design	2022	0	115
Multi-criticality and related bifurcation in accretion discs around non-rotating black holes: an analytical study	Mitra A.K., Department of Physic	Physical Sciences	General Relativity and Gravitation	2022	0	94
Histopathological and immunohistochemical Features of 14 peritoneal mesotheliomas with clinical outcomes and recent updates	Karmarkar S., Department of Sur	Medical and Health Sciences	Journal of Cancer Research and Therapeutics	2022	0	47
Extraction chromatography studies using camphor-bis(triazinyl)pyridine impregnated resins for americium separation from europium	Nair D., Process Development Di	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	1	73
Estimation and sensitivity analysis of operational intervention levels for the early phase of radiological emergencies involving radioactive releases	Chandra A., Radiation Safety Sys	Engineering Sciences	Journal of Radiological Protection	2022	0	58
Access to HER2-targeted therapy at a tertiary care center in India: An evolution	Nair N.S., Departments of Surgic	Medical and Health Sciences	Indian Journal of Cancer	2022	1	42
Survival outcomes with 12 weeks of adjuvant or neoadjuvant trastuzumab in breast cancer	Ghosh J., Department of Medica	Medical and Health Sciences	Indian Journal of Cancer	2022	0	42
In silico and structure-based assessment to classify VUS identified in the α -helical domain of BRCA2	Khan M.A., Tata Memorial Centr	Life Sciences	Journal of Biomolecular Structure and Dynamics	2022	1	81
Epidemiological Trend of Esophageal Cancer at a Tertiary Cancer Center in Mumbai, India, Over the Past 15 Years	Noronha V., Department of Med	Medical and Health Sciences	Journal of Gastrointestinal Cancer	2022	0	30
Effect of fullerene on the anisotropy, domain size and relaxation of a perpendicularly magnetized Pt/Co/C60/Pt system	Sharangi P., Laboratory for Nano	Physical Sciences	Journal of Materials Chemistry C	2022	1	166
Double-hit separation and dE/dx resolution of a time projection chamber with GEM readout	Aoki Y., High Energy Accelerator	Physical Sciences	Journal of Instrumentation	2022	0	85
Assessing the Suitability of a Dicationic Ionic Liquid as a Stabilizing Material for the Storage of DNA in Aqueous Medium	Mahapatra A., School of Chemi	Chemical Sciences	Langmuir	2022	0	359
Microstructure and substrate dependent enhanced critical current density in Pb-substituted Bi-based high temperature superconducting thin films	Gavathri V., Materials Science Gr	Physical Sciences	Physica Scripta	2022	0	91
Aggregation Behavior of Nitroliotriacetamide (NTAmide) Ligands in Thorium(IV) Extraction from Acidic Medium: Small-Angle Neutron Scattering, Fourier Transform Infrared, and Theoretical Studies	Verma P.K., Radiochemistry Divi	Physical Sciences	Langmuir	2022	1	359
Projections of two-particle correlations onto transverse rapidity in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV at STAR	Abdallah M.S., American Univers	Physical Sciences	Physical Review C	2022	0	229
WIMP and FIMP dark matter in singlet-triplet fermionic model	Bélanger G., Université Grenoble	Physical Sciences	Journal of High Energy Physics	2022	0	247
A new amino acid, hybrid peptides and BODIPY analogs: synthesis and evaluation of 2-aminotroponyl-L-alanine (ATA) derivatives	Gupta M.K., School of Chemical	Chemical Sciences	Organic and Biomolecular Chemistry	2022	1	160
Azimuthal transverse single-spin asymmetries of inclusive jets and identified hadrons within jets from polarized pp collisions at $\sqrt{s}=200$ GeV	Abdallah M.S., American Univers	Physical Sciences	Physical Review D	2022	4	378
Modulating Aggregation in Microemulsions: The Dispersion by Competitive Intermolecular Interaction Model	Sadhu B., Health Physics Division	Chemical Sciences	Journal of Physical Chemistry Letters	2022	1	235
Ruthenium-catalysed α -prenylation of ketones using prenil	Sankar R.V., School of Chemical	Chemical Sciences	Organic and Biomolecular Chemistry	2022	0	160
Discerning the Ultrafast Charge Dynamics in Photostable Perovskite: Carbon Dot Composite Systems: Role of Doped Carbon Dots	Bural S., Institute of Chemical Te	Chemical Sciences	Journal of Physical Chemistry C	2022	1	323
Use of the McGrath™ MAC videolaryngoscope to evaluate the ability of anesthetists to give effective cricoid pressure: An interventional study	Kumar P., Department of Anaest	Medical and Health Sciences	Journal of Anaesthesiology Clinical Pharmacology	2022	0	38
Electronic Structure and Chemical Bonding in Methylammonium Lead Triiodide and Its Precursor Methylammonium Iodide	Sterling C.M., Department of Ph	Physical Sciences	Journal of Physical Chemistry C	2022	1	323
Analysis of effective thermal conductivity of pebble bed by artificial neural network and its computational and experimental verification	Sedani C., Institute for Plasma Re	Engineering Sciences	Case Studies in Thermal Engineering	2022	0	59
Tobacco cessation program among cab drivers in Mumbai, India: An interventional study	Mishra G., Department of Preve	Medical and Health Sciences	Indian Journal of Community Medicine	2022	0	41
Application of external flood probabilistic safety assessment methodology to Prototype Fast Breeder Reactor	Ramakrishnan M., Reactor Desig	Engineering Sciences	Georisk	2022	0	34
Compliance for community-based cervical cancer screening program among women of age 30-65 years residing in low socioeconomic settings of Mumbai, India	Kulkarni V., Department of Preve	Medical and Health Sciences	Indian Journal of Community Medicine	2022	0	41
Hollow TiO2/SiO2 composite microspheres through reactive assembly across immiscible liquid interfaces	Bahadur J., Solid State Physics Di	Physical Sciences	Physical Chemistry Chemical Physics	2022	0	272
Temporal evolution of γ precipitate in HAYNES 282 during ageing: growth and coarsening kinetics, solute partitioning and lattice misfit	Mukherjee S., Department of M	Engineering Sciences	Materials	2022	1	33
Surface engineered Fe3O4 nanomagnets for pH-responsive delivery of gemcitabine hydrochloride and in vivo tracking by radiolabeling	Dutta B., Chemistry Division, Bho	Chemical Sciences	Materials Advances	2022	0	38
Investigation of thermally induced changes on structure, morphology and stoichiometry of sputter deposited titanium oxide thin films	Jana S., Solid State Physics Divisi	Physical Sciences	Thin Solid Films	2022	0	206
Monte carlo study on dose distributions around 192 Ir, 169 Yb, and 125 I brachytherapy sources using EGSnrc-based egs-brachy user-code	Mishra S., Division of Radiologic	Physical Sciences	Journal of Medical Physics	2022	1	29
Choice of intraoperative ultrasound adjuncts for brain tumor surgery	Kumar M., Department of Indust	Medical and Health Sciences	BMC Medical Informatics and Decision Making	2022	1	30

Exergy evaluation of integrated liquefier-cryocondensation and cryosorption helium purification systems based on experimental data	Maiti T.K., Homi Bhabha National Institute	Engineering Sciences	International Journal of Exergy	2022	0	36
Highly efficient magnetically separable Zn-Ag@L-arginine Fe3O4 catalyst for synthesis of 2-aryl-substituted benzimidazoles and multicomponent synthesis of pyrimidines	Kulkarni P.A., Department of Chemistry	Chemical Sciences	Results in Chemistry	2022	1	14
heterodimers of nitromethane with acetylene and benzene as π -electron donors: experimental characterization at low temperatures under isolated conditions with computational corroboration	Mahapatra N., Materials Chemistry	Chemical Sciences	Physical Chemistry Chemical Physics	2022	0	272
Manganese-Catalyzed Chemoselective Hydroxylation of Nitroarenes: Sustainable Route to Aromatic Amines	Behera R.R., School of Chemistry	Chemical Sciences	Organic Letters	2022	5	252
Complementary effects of functionalization, vacancy defects and strain engineering in activating the basal plane of monolayer FePS3 for HER	Das T., Harish-Chandra Research Institute	Physical Sciences	Sustainable Energy and Fuels	2022	1	62
Efficient Estimation of Empirical Green's Function by Removing Transients from Sensor Data Using Time-Frequency Normalization Technique	Gupta P., Homi Bhabha National Institute	Engineering Sciences	IEEE Sensors Journal	2022	0	145
Statistical mechanics of phase transitions in elastic media with vanishing thermal expansion	Mukherjee S., Barasat Government College	Physical Sciences	Physical Review E	2022	1	317
Determination of Eddy-Current Distribution in Electrically Isolated Vessel Sections of ADITYA-U Tokamak	Kumar R., Institute for Plasma Research	Physical Sciences	IEEE Transactions on Plasma Science	2022	0	114
Comparison of Gamma Radiation Effects on CCD Cameras under Different Bias Conditions Using Image Analysis Techniques	Tiwari M.K., Homi Bhabha National Institute	Engineering Sciences	IEEE Transactions on Nuclear Science	2022	0	130
Stiffening or softening of elastic media: Anomalous elasticity near phase transitions	Mukherjee S., Barasat Government College	Physical Sciences	Physical Review E	2022	1	317
Interface analysis of Mg/Sc and Sc/Mg bilayers using X-ray reflectivity	Verma H., Sorbonne Université	Physical Sciences	Thin Solid Films	2022	0	206
Evidence for WW/ZZ vector boson scattering in the decay channel $b\bar{u}qq$ produced in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV	Tumasyan A., Yerevan Physics Institute	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	2022	2	275
Coherent Indian Summer Monsoon and Sahel Rainfall Variability Revealed by Ethiopian Rainfall 6180	Midhun M., Department of Atmospheric Sciences	Physical Sciences	Journal of Geophysical Research: Atmospheres	2022	0	116
Study on the deposition velocity of $^{222}\text{Rn}/^{220}\text{Rn}$ progeny at varying environmental conditions	Prajith R., Radiological Physics and Chemistry	Physical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	0	73
Hunt for light primordial black hole dark matter with ultrahigh-frequency gravitational waves	Franciolini G., Dipartimento di Fisica	Physical Sciences	Physical Review D	2022	12	378
Extension and dynamical phases in random walkers depositing and following chemical trails	Khuntia S.S., Indian Institute of Science	Physical Sciences	EPL	2022	0	130
Toward the continuum limit of a $(1+1)$ D quantum link Schwinger model	Zache T.V., Center for Quantum Physics	Physical Sciences	Physical Review D	2022	10	378
Horizons: nuclear astrophysics in the 2020s and beyond	Schatz H., Department of Physics	Physical Sciences	Journal of Physics G: Nuclear and Particle Physics	2022	6	112
Snapshots of urea-induced early structural changes and unfolding of an ankyrin repeat protein at atomic resolution	Medur Gurusankar M.S., Protein Science	Life Sciences	Protein Science	2022	0	191
Primary Alveolar Soft Part Sarcoma of Bone : A Rare Occurrence in 8 Patients, Posing a Diagnostic Challenge	Kaur R., The Departments of Pathology	Medical and Health Sciences	Archives of Pathology and Laboratory Medicine	2022	0	132
Anisotropic phenanthroline-based ruthenium polymers grafted on a titanium metal-organic framework for efficient photocatalytic hydrogen evolution	Gonuguntla S., Department of Chemistry	Physical Sciences	Communications Chemistry	2022	0	34
Intergranular Corrosion Susceptibility of Alloy 800 Weldments	Abraham G.J., Materials Process Engineering	Engineering Sciences	Journal of Materials Engineering and Performance	2022	0	78
Anticancer activity of Pt-selenolate metallacycles	Pal M.K., Chemistry Division, Bhabha Atomic Research Centre	Life Sciences	New Journal of Chemistry	2022	0	131
Comparative Assessment of DNA Extraction Techniques from Formalin-Fixed, Paraffin-Embedded Tumor Specimens and Their Impact on Downstream Analysis	Bapat P.R., Molecular Pathology	Medical and Health Sciences	American Journal of Clinical Pathology	2022	1	179
A low-cost four-component relativistic equation of motion coupled cluster method based on frozen natural spinors: Theory, Implementation, and benchmark	Surjuse K., Department of Chemistry	Chemical Sciences	Journal of Chemical Physics	2022	0	179
Extrinsic to intrinsic mechanism crossover of anomalous Hall effect in the Ir-doped MnP5n Heusler system	Jamaluddin S., School of Physics	Physical Sciences	Physical Review B	2022	0	485
Ultrananarrow Band UV Detection in GaN with Simple Device Architecture	Chatterjee A., Semiconductor Materials	Physical Sciences	Physica Status Solidi - Rapid Research Letters	2022	0	76
Slower diffusion and anomalous association of R453W lamin A protein alter nuclear architecture in AD-EDMD	Mukherjee C., Biophysics & Structural Biology	Life Sciences	RSC Advances	2022	1	189
First results of fast visible imaging diagnostic in Aditya-U tokamak	Kumawat D., Institute for Plasma Research	Physical Sciences	Review of Scientific Instruments	2022	0	174
Cancer care continuum at a tertiary care centre in India during the Covid-19 pandemic and nationwide lockdown: Healthcare delivery through telemedicine	Gokarn A., Department of Medical Oncology	Medical and Health Sciences	The National medical journal of India	2022	0	46
FPGA: Field programmable gate array-based four-channel embedded system for ultrasonic imaging of under-water concrete structures	Jain H., Homi Bhabha National Institute	Engineering Sciences	Review of Scientific Instruments	2022	0	174
Investigating the effect of density variation on pitch angle scattering events of runaway electrons as observed through electron cyclotron emission diagnostic at Aditya-upgrade tokamak	Siju V., Institute for Plasma Research	Engineering Sciences	Review of Scientific Instruments	2022	0	174
Intermolecular noncovalent interactions with carbon in solution	Dutta J., School of Chemical Sciences	Chemical Sciences	Chemical Science	2022	3	209
Phenomenology of scalar leptoquarks at the LHC in explaining the radiative neutrino masses, muon $g-2$, and lepton flavor violating observables	Parashar S., Indian Institute of Technology	Physical Sciences	Physical Review D	2022	1	378
Indentation response of model oxide dispersion strengthening alloys after ion irradiation up to 700 °C	Robertson C., CEA, Service de Recherches	Physical Sciences	Journal of Applied Physics	2022	0	341
Conversion of UO2 to UCl3 using KCl3 in UCl3-KCl eutectic melt in presence of lanthanide (Nd, Pr, Ce, La) oxides: a spectroscopic study	Samanta N., Indira Gandhi Centre for Atomic Research	Chemical Sciences	Journal of Radioanalytical and Nuclear Chemistry	2022	1	73
Efficient Hot Electron Transfer and Extended Separation of Charge Carriers at the 1P Hot State in Sb2Se3/CdSe p-n Heterojunction	Kaur A., Institute of Nano Science and Technology	Chemical Sciences	Journal of Physical Chemistry Letters	2022	0	216
Residual stress, strain and defects: Its effect on the band gap of poly-Ge thin film realized on glass via Au induced layer exchange crystallization process	Singh C.K., Surface and Nanoscale Science	Physical Sciences	Physica Scripta	2022	0	91
Optimization of external (in air) particle induced gamma-ray emission (PIGE) methodology for rapid, non-destructive, and simultaneous quantification of fluorine, sodium, and phosphorus in nuclear waste immobilization matrices	Samanta S.K., Radiochemistry Division	Chemical Sciences	RSC Advances	2022	0	189
Probing the Signature of Disorder and Delocalization of Oxygen Vacancies and Anti-site Defects in Doped LaAlO3/SrTiO3 Electrolytes	Gupta M., Material Research Laboratory	Physical Sciences	Journal of Physical Chemistry C	2022	1	323
Effect of Alkyl Chain Length on Current-Voltage Characteristics of BODIPY Molecules Deposited on Si(n+) Substrates	Shivran N., Bio-Organic Division	Chemical Sciences	Chemistry Select	2022	0	51
In Silico and Structure-Based Assessment of Similar Variants Discovered in Tandem Repeats of BRCT Domains of BRCA1 and BARD1 To Characterize the Folding Pattern	Banua S.A., Advanced Centre for Protein Research	Life Sciences	ACS Omega	2022	3	77
Humidity-Responsive Polymer Cushion-Supported Biomimetic Membrane: A Model System for X-ray Studies	Giri R.P., Saha Institute of Nuclear Physics	Physical Sciences	Langmuir	2022	0	319
CORROSION PERFORMANCE OF PLASMA SPRAYED ALUMINA-40 wt.% TITANIA COATED HIGH-DENSITY GRAPHITE IN MOLTEN LiCl-KCl EUTECTIC SALT	Sure J., Department of Physics, School of Materials	Engineering Sciences	Surface Review and Letters	2022	0	45
Deciphering the Nature of Temperature-Induced Phases of MAPbBr3 by Ab Initio Molecular Dynamics	Maitly S., Department of Chemistry	Physical Sciences	Chemistry of Materials	2022	3	409
Socio-economic and regional variation in breast and cervical cancer screening among Indian women of reproductive age: a study from National Family Health Survey, 2019-21	Sen S., Department of Population Science	Medical and Health Sciences	BMC Cancer	2022	0	141

Structural Flexibility of Proteins Dramatically Alters Membrane Stability-A Novel Aspect of Lipid-Protein Interaction	Giri R.P., Saha Institute of Nuclear Physics	Physical Sciences	Journal of Physical Chemistry Letters	2022	0	235
Rational Design of Dynamic Bimetallic NiCoSe ₂ /ZD Ti3C ₂ Tx MXene Hybrids for a High-Performance Flexible Supercapacitor and Hydrogen Evolution Reaction	Samal R., Centre for Nano and Microtechnology	Physical Sciences	Energy and Fuels	2022	1	209
A study of the clinical profile, predictors, prognostic features, and survival of patients with hepatocellular carcinoma having macroscopic portal vein tumor thrombosis	Jearth V., Department of Digestive Diseases	Medical and Health Sciences	Indian Journal of Gastroenterology	2022	1	45
Charged-particles distribution in proton-proton and heavy-ion collisions using PYTHIA8 Angantyr model at LHC energies	Islam M.S., High Energy Nuclear Physics	Physical Sciences	European Physical Journal Plus	2022	0	76
Oxygen vacancy and valence engineering in CeO ₂ through distinct sized ion doping and their impact on oxygen reduction reaction catalysis	Das D., Radiochemistry Division	Chemical Sciences	Dalton Transactions	2022	0	203
ESTIMATION OF PERSONAL DOSE EQUIVALENT HP(0.07) USING CASO4-DY TEFLON DISC-BASED EXTREMITY DOSEMETER	Bhattacharya M., Radiological Physics	Physical Sciences	Radiation Protection Dosimetry	2022	1	77
Charge-transfer interface of insulating metal-organic frameworks with metallic conduction	Sindhu P., Department of Chemistry	Physical Sciences	Nature Communications	2022	2	466
An analytical model for electronic noise in a cryogenic bolometer detector readout circuit	Vatsa V., Homi Bhabha National Centre	Physical Sciences	Journal of Instrumentation	2022	0	85
Proton synchrotron, an explanation for possible extended VHE gamma-ray activity of TXS 0506+056 in 2017	Sunanda, Department of Physics	Physical Sciences	Physical Review D	2022	0	378
Turbulent route to two-dimensional soft crystals	Gupta M., International Centre for Space and Astronautical Sciences	Physical Sciences	Physical Review E	2022	0	317
Dynamical quantum phase transitions in spin-1/2 U(1) quantum link models	Van Damme M., Department of Physics	Physical Sciences	Physical Review B	2022	6	481
Practice of Awake Prone Positioning in Critically Ill COVID-19 Patients—Insights from the PROACT-COVID Study	Stlima W., Department of Intensive Care Medicine	Medical and Health Sciences	Journal of Clinical Medicine	2022	2	95
Fusion dynamics of astrophysical reactions using different transmission coefficients	Rana S., School of Physics and Materials Science	Physical Sciences	European Physical Journal A	2022	1	305
Theoretical and experimental investigations on Mn doped Bi ₂ Se ₃ topological insulator	Kumar R., Atomic and Molecular Physics	Physical Sciences	Physical Review Materials	2022	0	59
Sublinear temperature dependence of thermal conductivity in the incommensurate phase of TlInTe ₂	Bajaj N., Department of Mechanical Engineering	Physical Sciences	Physical Review B	2022	0	461
Effect of fluctuations on the geodesic rule for topological defect formation	Digal S., The Institute of Mathematics	Physical Sciences	Modern Physics Letters A	2022	0	85
Fusion systematics for weakly bound nuclei using neutron flow and collective degrees of freedom	Appannababu S., Department of Physics	Physical Sciences	Physical Review C	2022	0	229
Narrating Waste Chronicles Through Urban Ethnography: A Tale of Bhubaneswar	Rath S., National Institute of Science and Technology	Applied Systems Analysis	Urbanities	2022	0	6
⁷⁴ Ge(n, γ) cross section below 70 keV measured at n_TOF CERN	Lederer-Woods C., School of Physics	Physical Sciences	European Physical Journal A	2022	0	305
First-principles calculations on novel Co-based Equiatomic Quaternary Heusler Alloys for Spintronics	Aravindan V., Smart Materials Laboratory	Physical Sciences	Materials Science in Semiconductor Processing	2022	2	77
Lithium decorated Ψ -graphene as a potential hydrogen storage material: Density functional theory investigations	Dewangan J., Indian Institute of Technology	Physical Sciences	International Journal of Hydrogen Energy	2022	4	248
Flexibility of Mixed Ligand Zeolitic Imidazolate Frameworks (ZIF-7-8) under CO ₂ Pressure: An Investigation Using Positron Annihilation Lifetime Spectroscopy	Mor J., Radiochemistry Division	Chemical Sciences	Langmuir	2022	2	359
Translation and Validation of COST - FACIT (Version 2) Questionnaire into Hindi and Marathi to Assess Financial Toxicity in Indian Cancer Patients	Joshi A., Department of Medical Oncology	Medical and Health Sciences	South Asian Journal of Cancer	2022	1	17
Two-Dimensional Halide Perovskite Materials Featuring 2-(Methylthio)ethylamine Organic Spacers for Efficient Solar and Thermal Energy Harvesting	Kagada H.L., Department of Biotechnology	Physical Sciences	Journal of Physical Chemistry C	2022	0	323
Temperature driven charge transfer process in quantum confined two-dimensional Mn-doped CsPbBr ₃ perovskite nanoplatelets	Babu K.J., Institute of Nano Science and Technology	Chemical Sciences	Chemical Communications	2022	0	363
Charged particle tracking in real-time using a full-mesh data delivery architecture and associative memory techniques	Aluha S., UNESP, Sao Paulo State University	Physical Sciences	Journal of Instrumentation	2022	0	85
Universal mechanical instabilities in the energy landscape of amorphous solids: Evidence from athermal quasistatic expansion	Dattani U.A., The Institute of Mathematics	Physical Sciences	Physical Review E	2022	0	317
Facile synthesis and size-dependent optical properties of luminescent ZnIn ₂ S ₄ nanocrystals derived from metal xanthates	Kushwah N., Chemistry Division	Chemical Sciences	New Journal of Chemistry	2022	0	331
Computational analysis of vertical comb-drive microactuator with extended mirror for manipulation of light	Sharma V.P., Accelerator Physics	Physical Sciences	Journal of Vacuum Science and Technology B	2022	0	122
Experimental Investigations on Thermal-Hydraulics of Supercritical Carbon Dioxide Under Natural Circulation Vertical Flows	Bodkha K., Engineering Sciences	Engineering Sciences	Journal of Heat Transfer	2022	1	137
Initial results from near-infrared spectroscopy on ADITYA-U tokamak	Ramaya N., Institute for Plasma Physics	Physical Sciences	Review of Scientific Instruments	2022	0	174
N-Allylbenzimidazole as a strategic surrogate in Rh-catalyzed stereoselective trans-propenylation of aryl C(sp ²)-H bond	Biswal P., School of Chemical Sciences	Chemical Sciences	Chemical Communications	2022	1	303
Spermatocytic tumor of testis: A case series of 26 cases elucidating unusual patterns with diagnostic and treatment dilemmas	Rabade K., Departments of Pathology and Urology	Medical and Health Sciences	Journal of Cancer Research and Therapeutics	2022	2	47
Definitive radiation therapy with dose escalation is beneficial for patients with squamous cell cancer of the esophagus	Ghosh-Laskar S., Department of Radiation Oncology	Medical and Health Sciences	Journal of Cancer Research and Therapeutics	2022	0	47
Endometrial serous carcinoma: A retrospective review of histological features & their clinicopathological association with disease-free survival & overall survival	Agarwal A., Department of Surgery	Medical and Health Sciences	Indian Journal of Medical Research	2022	1	96
Machine Learning-Based Fault Diagnosis for a PWR Nuclear Power Plant	Naimi A., Leeds Beckett University	Engineering Sciences	IEEE Access	2022	1	204
Lateral diffusion of lipids in the DMPG membrane across the anomalous melting regime: effects of NaCl	Sharma V.K., Solid State Physics	Physical Sciences	Soft Matter	2022	0	196
A non-destructive assay of plutonium based nuclear fuels by in-house developed small volume calorimeter	Bootharajan M., Materials Chemistry	Chemical Sciences	Thermochimica Acta	2022	0	150
Excitation-dependent photoluminescence intensity of monolayer MoS ₂ : Role of heat-dissipating area and phonon-assisted exciton scattering	Bhuyan C.A., Surface and Nanoscale Physics	Physical Sciences	Journal of Applied Physics	2022	0	341
Reduced-graphene oxide decorated γ -In ₂ Se ₃ /Si heterostructure-based broadband photodetectors with enhanced figures-of-merit	Roul B., Materials Research Centre	Physical Sciences	Materials Advances	2022	1	28
Effect of Nb substitution on the electronic property of lead-free piezoelectric (Na _{0.41} K _{0.09} Bi _{0.50})TiO ₃ single crystal: Optical absorption and photoelectron study	Sharma A., Homi Bhabha National Centre	Physical Sciences	Journal of Applied Physics	2022	0	341
Collective modes of gluons in an anisotropic thermomagnetic medium	Karmakar B., Institute of Physics	Physical Sciences	Physical Review D	2022	0	378
Room-temperature multiferroicity in GaFeO ₃ thin film grown on (100)Si substrate	Goswami S., School of Materials Science	Physical Sciences	Journal of Applied Physics	2022	0	341
Determining the bubble nucleation efficiency of low-energy nuclear recoils in superheated C ₃ F ₈ dark matter detectors	Ali B., Institute of Experimental Physics	Physical Sciences	Physical Review D	2022	0	378
Interplay of interactions in nanoparticle-surfactant complexes in aqueous salt solution	Singh H., Solid State Physics Division	Physical Sciences	Journal of Applied Physics	2022	0	341
Interplay of spin, phonon, and lattice degrees in a hole-doped double perovskite: Observation of spin-phonon coupling and magnetostriction effect	Pal A., Department of Physics, Indian Institute of Technology	Physical Sciences	Journal of Applied Physics	2022	1	341

A study on the electrical properties of flux grown 0.91PZn-0.09PT single crystals for high-performance piezoelectric and pyroelectric device applications	Maria Kuruvilla K., Department of	Physical Sciences	Journal of Crystal Growth	2022	4	159
The application of food/agro-waste and spent household products for the environmentally benign separation of thorium	Salunkhe G., Department of Che	Chemical Sciences	Environmental Science: Advances	2022	1	13
Measurement system for ion beam profiles using fixed parallel wires and Faraday cup array	Rawat B.S., Homi Bhabha Nation	Physical Sciences	AIP Advances	2022	0	73
Multiwavelength temporal and spectral study of TeV blazar 1ES 1727+502 during 2014-2021	Prince R., Center for Theoretical	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	2	357
Collision-System and Beam-Energy Dependence of Anisotropic Flow Fluctuations	Abdallah M.S., American Univer	Physical Sciences	Physical Review Letters	2022	0	674
Display of converse and direct magnetoelectric effect in double perovskite LaFe2O6	Ghosh R., Department of Physics	Mathematical Sciences	Journal of Applied Physics	2022	1	341
Search for new particles in an extended Higgs sector with four b quarks in the final state at $\sqrt{s}=13$ TeV	Tumasyan A., Yerevan Physics In	Physical Sciences	Physics Letters, Section B: Nuclear, Elementary Particle and High-E	2022	2	275
Effect of electric field induced structural ordering on photo-luminescence and piezoelectric response of praseodymium doped (Na0.41K0.09B0.5)TiO3ceramics	Yadav P., Homi Bhabha National	Physical Sciences	Journal of Applied Physics	2022	0	341
Nitrobenzene detection using pristine and transition metal-decorated C[18] cyclocarbon: A first-principles density functional theory study	Lakshmy S., International and Int	Physical Sciences	Journal of Applied Physics	2022	0	341
Optimal classification of N-back task EEG data by performing effective feature reduction	Patel R., MEG Lab, SQUIDS Appli	Physical Sciences	Sadhana - Academy Proceedings in Engineering Sciences	2022	0	55
Spin-orbital liquids and insulator-metal transitions on the pyrochlore lattice	Swain N., Harish-Chandra Resear	Physical Sciences	Physical Review B	2022	0	481
Non-Markovianity between Site Pairs in FMO Complex Using Discrete-Time Quantum Jump Model	Kundu M., Indian Institute of Sci	Physical Sciences	ACS Omega	2022	1	77
Timing characteristics of the R13089-100 photomultiplier tube coupled with 1.5" x 1.5" CeBr3 scintillators and its application in lifetime measurements	Das S., Variable Energy Cyclotro	Physical Sciences	Journal of Instrumentation	2022	1	85
Spontaneous exchange bias and large dielectric constant in Bi0.8Tb0.2Fe0.8Mn0.2O3multiferroic	Kumari S., Department of Physic	Physical Sciences	Journal of Applied Physics	2022	1	341
Auto-correlations of microscopic density fluctuations for Yukawa fluids in the generalized hydrodynamics framework with viscoelastic effects	Dhaka A., Institute for Plasma Re	Physical Sciences	Scientific Reports	2022	0	262
Development and testing of 37.8 MHz, 3.0 kW RF amplifier system for Radioactive Ion Beam facility at VECC Kolkata	Pandey H.K., Variable Energy Cyc	Engineering Sciences	Journal of Instrumentation	2022	0	85
Comparison of 126 MeV antiproton and proton—a FLUKA-based microdosimetric approach	Chattaraj A., Radiological Physic	Physical Sciences	Physics in Medicine and Biology	2022	0	206
DNA Damage Response Signaling Is Crucial for Effective Chikungunya Virus Replication	Chatterjee S., Institute of Life Sci	Life Sciences	Journal of Virology	2022	2	315
Modular electromagnetic railgun accelerator for high velocity impact studies	Verma R., Pulsed Power and Elec	Engineering Sciences	Review of Scientific Instruments	2022	0	174
FtsK, a DNA Motor Protein, Coordinates the Genome Segregation and Early Cell Division Processes in Deinococcus radiodurans	Mishra S., Molecular Biology Divi	Life Sciences	mBio	2022	0	154
Hepatocellular Carcinoma Evaluation and Management for Physicians: Joint Gastroenterology Research Society and Association of Physicians of India Guidelines	Shukla A., Department of Gastro	Medical and Health Sciences	Journal of Association of Physicians of India	2022	0	69
Normalized polarity indices of tri-n-butyl phosphate metal complexes in ionic liquid using Reichardt's dye as polarity probe	Rao C.V., Homi Bhabha National	Chemical Sciences	Journal of Ionic Liquids	2022	1	3
Quasi-longitudinal propagation of nonlinear whistlers with steep electrostatic fluctuations	Barsagade G., Institute for Plasm	Physical Sciences	Physics of Plasmas	2022	0	169
Semi-analytical modeling of large area field emitters having non-identical pins	Rudra R., Bhabha Atomic Resear	Physical Sciences	Physics of Plasmas	2022	0	169
Scaling of reconnection parameters in magnetic island coalescence: Role of in-plane shear flow	Mahapatra J., Institute for Plasm	Physical Sciences	Physics of Plasmas	2022	0	169
Trapping of waves in a flowing dusty plasma	Kumar K., Institute for Plasma Re	Physical Sciences	Physics of Plasmas	2022	0	169
Patterned random matrices: deviations from universality	Ali M.S., Variable Energy Cyclotro	Physical Sciences	Journal of Physics A: Mathematical and Theoretical	2022	1	160
NtrC Increases Fitness of Salmonella enterica Serovar Typhimurium under Low and Fluctuating Nutrient Conditions	Mishra L.K., Life Sciences, Homi	Life Sciences	Journal of Bacteriology	2022	0	265
Synthesis of Aminotroponyl/Difluoroboronyl Aminotroponyl Deoxyuridine Phosphoramidites	Palai B.B., School of Chemical Sci	Chemical Sciences	Current Protocols	2022	0	11
Disordered spin gapless semiconducting CoFeCrGa Heusler alloy thin films on Si (100): experiment and theory	Mishra V., Thin Film Laboratory,	Physical Sciences	Nanoscale	2022	1	288
SUBEXPONENTIAL PARAMETERIZED ALGORITHMS FOR PLANAR AND APEX-MINOR-FREE GRAPHS VIA LOW TREEWIDTH PATTERN COVERING	Fomin F.V., Department of Infor	Mathematical Sciences	SIAM Journal on Computing	2022	0	151
Impact of defects on the $\chi(3)$ optical nonlinearity of sputtered WSe2 thin films in the optical communication band	Surbhi K., School of Physical Scie	Physical Sciences	Journal of Applied Physics	2022	0	341
Characterization of DNA Processing Protein A (DprA) of the Radiation-Resistant Bacterium Deinococcus radiodurans	Sharma D.K., Molecular Biology U	Life Sciences	Microbiology Spectrum	2022	1	76
Complexation thermodynamics of lanthanides with 2-thenoyltrifluoroacetone in a room temperature ionic liquid. Part-II: calorimetry and MD simulation studies	Gular R.B., Radiochemistry Divisi	Chemical Sciences	New Journal of Chemistry	2022	0	131
Muography for Inspection of Civil Structures	Das S., Applied Nuclear Physics C	Physical Sciences	Instruments	2022	0	14
Need for evaluation of near-term energy transition policies of India based on contributions to long-term decarbonization goals	Grover R.B., Homi Bhabha Nation	Engineering Sciences	Current Science	2022	0	130
Genetic Improvement in Plant Architecture, Maturity Duration and Agronomic Traits of Three Traditional Rice Landraces through Gamma Ray-Based Induced Mutagenesis	Sao R., Department of Genetics	Life Sciences	Plants	2022	1	67
Isolation of Gamma Ray Induced Urd Bean [Vigna mungo (L.) hepper] Mutants with Improved Batter Quality	Vanniarajan C., Department of P	Life Sciences	Legume Research	2022	0	18
Stabilization of Eu2+ in U2B4O7 with the BO3 network through U6+ co-doping and defect engineering	Balhara A., Homi Bhabha Nation	Chemical Sciences	Physical Chemistry Chemical Physics	2022	1	272
A Bombieri-Vinogradov-type theorem with prime power moduli	Baier S., Ramakrishna Mission V	Mathematical Sciences	Acta Arithmetica	2022	0	45
How I Treat Alveolar Soft Part Sarcoma? the Therapeutic Journey from Nihilism to Cautious Optimism	Philip D.S.J., Department of Med	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Microdosimetry-based quality factors for ISO reference photon and beta sources: TOPAS Monte Carlo study	Chattaraj A., Radiological Physic	Physical Sciences	Journal of Instrumentation	2022	0	85
Azide-Alkyne Cycloaddition Catalyzed by Copper(I) Coordination Polymers in PPM Levels Using Deep Eutectic Solvents as Reusable Reaction Media: A Waste-Minimized Sustainable Approach	Sethi S., School of Chemical Scie	Chemical Sciences	ACS Omega	2022	0	77
Green-Kubo formula for electrical conductivity of a driven 0 - π qubit	Rajpoot G., Theoretical Nuclear P	Physical Sciences	Theoretical and Mathematical Physics(Russian Federation)	2022	0	44
Synthesis and degradation mechanism of renally excretable gold core-shell nanoparticles for combined photothermal and photodynamic therapy	Singh B., Centre for Research in I	Life Sciences	Nanoscale	2022	2	268
Maximally valent orbitals in systems with non-ideal bond-angles: atomic Wannier orbitals guided by the Mayer bond order	De J., School of Physical Science	Physical Sciences	Physical Chemistry Chemical Physics	2022	0	272

One-pot synthesis of cyclic-aminotropinium carboxylate derivatives with DNA binding and anticancer properties	Palai B.B., School of Chemical Sci	Chemical Sciences	Communications Chemistry	2022	0	34
Tunnel barrier to spin filter: Electronic-transport characteristics of transition metal atom encapsulated in a small Cadmium Telluride cage	Chavan K.T., Materials Science G	Physical Sciences	Nanoscale	2022	0	268
Progesterone modulates the DSCAM-AS1/miR-130a/ESR1 axis to suppress cell invasion and migration in breast cancer	Yadav N., Integrated Cancer Cen	Medical and Health Sciences	Breast Cancer Research	2022	2	171
Collective behavior of soft self-propelled disks with rotational inertia	De Karmakar S., Institute for Plas	Physical Sciences	Scientific Reports	2022	1	269
Ground-state degeneracy and complex magnetism of geometrically frustrated Gd ₂ Ir _{0.97} Si ₂ 97	Chakraborty S., Condensed Mat	Physical Sciences	Physical Review B	2022	2	481
Shock-induced transformation of non-magnetic to magnetic ISM dust analogue	Roy A., Physical Research Labora	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	2	357
Gamma-ray observations of MAXI J1820+070 during the 2018 outburst	Abe H., Japanese MA GIC Group,	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	1	357
Gamma-ray spectral variability of HBL 1E5 1959+650 during MJD 57400-58000 and its consequence on leptonic blazar emission model	Ghosal B., Astrophysical Science	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	2	357
Comparison of C-MAC videolaryngoscope with Macintosh laryngoscope for nasotracheal intubation by the novice anaesthesiologist	Ambulkar R., Department of Ana	Medical and Health Sciences	Indian Journal of Anaesthesia	2022	0	39
Production cross sections of natZn(alpha,x)68,69Ge,66,67Ga,65Zn reactions up to 46.3 MeV	Raja S.W., Radiochemistry Divisi	Chemical Sciences	European Physical Journal A	2022	0	105
Polarization-dependent electronic structure of Ag quantum well states on the MoS ₂ (0001) surface using ARPES and DFT studies	Kar A., Surface Physics and Mate	Physical Sciences	Physical Review B	2022	0	481
Defect partition function from TDLs in commutant pairs	Hegde S., Harish-Chandra Resear	Physical Sciences	Modern Physics Letters A	2022	0	85
Dynamics of hot QCD matter - Current status and developments	Das S.K., School of Physical Scie	Physical Sciences	International Journal of Modern Physics E	2022	2	16
Reexamining right-handed neutrino EFTs up to dimension six	Mitra M., Institute of Physics, Sa	Physical Sciences	Physical Review D	2022	0	378
Measurement of beauty production via non-prompt D0 mesons in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Acharya S., Variable Energy Cycl	Physical Sciences	Journal of High Energy Physics	2022	3	247
Eddy current measurement in hollow conducting tube in electromagnetic forming process	Choudhary H., Homi Bhabha Nat	Engineering Sciences	Journal of Instrumentation	2022	0	85
Vacancy-fused multiple layers of copper selenide superstructures: a propitious HER electrocatalyst in acidic medium	Kumaravel S., Electrochemical Pi	Physical Sciences	Catalysis Science and Technology	2022	0	136
Soft anharmonic coupled vibrations of Li and SiO ₄ enable Li-ion diffusion in amorphous Li ₂ S ₂ O ₅	Kumar S., Solid State Physics Div	Chemical Sciences	Journal of Materials Chemistry A	2022	0	270
Commissioning of the MACE gamma-ray telescope at Hanle, Ladakh, India	Yadav K.K., Astrophysical Science	Engineering Sciences	Current Science	2022	1	130
Signatures of Light Massive Relics on non-linear structure formation	Banerjee A., Department of Phys	Physical Sciences	Monthly Notices of the Royal Astronomical Society	2022	3	357
Understanding the Effects of Tetrahedral Site Occupancy by the Zn Dopant in Li-NMCs toward High-Voltage Compositional-Structural-Mechanical Stability via Operando and 3D Atom Probe Tomography Studies	Sharma A., Advanced Batteries B	Physical Sciences	ACS Applied Materials and Interfaces	2022	1	284
CsPbBr ₃ in the Activation of the C-Br Bond of CBrX ₃ (X = Cl, Br) under Sunlight	Manna A., School of Chemical Sc	Chemical Sciences	Chemistry of Materials	2022	2	409
Nickel-Catalyzed α -Alkylation of Arylacetonitriles with Challenging Secondary Alcohols	Saha R., School of Chemical Scie	Chemical Sciences	Journal of Organic Chemistry	2022	1	239
Bipolar Resistive Switching in TiO ₂ /Artificial Synapse Mimicking Pavlov's Associative Learning	Jena A.K., Laboratory for Low-dir	Physical Sciences	ACS Applied Materials and Interfaces	2022	6	284
Aggregation assisted turn-on response of ANS dye towards protamine	Mal D.K., Chemistry Division, Bha	Physical Sciences	New Journal of Chemistry	2022	2	131
Comparison of Two Zinc Hydride Precatalysts for Selective Dehydrogenative Borylation of Terminal Alkynes: A Detailed Mechanistic Study	Sahoo R.K., School of Chemical S	Chemical Sciences	ACS Omega	2022	1	77
6-Shogal Exhibits Anti-viral and Anti-inflammatory Activity in COVID-19-Associated Inflammation by Regulating NLRP3 Inflammasomes	Kode J., Kode Lab, Tumor Immun	Life Sciences	ACS Omega	2022	1	77
Experimental investigation of the role of shell structure in quasispin mass distributions	Hinde D.J., Department of Nucle	Physical Sciences	Physical Review C	2022	2	229
The Prevalence of BRAF, PIK3CA, and RAS Mutations in Indian Patients with Colorectal Cancer	Shetty O., Molecular Pathology L	Medical and Health Sciences	South Asian Journal of Cancer	2022	0	17
Role of C and B4C barrier layers in controlling diffusion propagation across the interface of Cr/SiC multilayers	Sarkar P., Atomic & Molecular Pi	Physical Sciences	Physical Chemistry Chemical Physics	2022	0	272
3,3'-Diselenodipropionic acid immobilised gelatin gel: a biomimic catalytic nitric oxide generating material for topical wound healing application	Das R.P., Radiation & Photoche	Chemical Sciences	Biomaterials Science	2022	0	87
Systematic investigation of channel-coupling effects on elastic, inelastic, and neutron-transfer channels in U ⁶⁺ + Tb ¹⁵⁹	Bhattacharjee S., Saha Institute o	Physical Sciences	Physical Review C	2022	0	229
Development of a model of Home-based Cancer Palliative Care Services in Mumbai - Analysis of Real-world Research Data over 5 Years	Dhillwal S.R., Department of Pall	Medical and Health Sciences	Indian Journal of Palliative Care	2022	0	34
Boron Carbide as High-Energy Radiation Shielding Material for ITER	Gajjar B.S., ITER-India, Institute f	Physical Sciences	IEEE Transactions on Plasma Science	2022	0	134
Manganese substitution induced magnetic transformation and magnetoelectricity in SrFe ₂ O ₁₉	Sahoo M.R., Department of Phys	Mathematical Sciences	Physical Chemistry Chemical Physics	2022	1	272
Solvated electron-induced synthesis of cyclodextrin-coated Pd nanoparticles: mechanistic, catalytic, and anticancer studies	Guleria A., Radiation & Photoche	Chemical Sciences	Dalton Transactions	2022	0	203
Uniform explicit Stewart theorem on prime factors of linear recurrences	Blu Y., Institut de Mathématique	Mathematical Sciences	Acta Arithmetica	2022	1	43
Highly efficient hydrogen storage of a Sc decorated biphenylene monolayer near ambient temperature: ab initio simulations	Singh M., Department of Physics	Physical Sciences	Sustainable Energy and Fuels	2022	1	62
Repurposing of metabolic drugs and mitochondrial modulators as an emerging class of cancer therapeutics with a special focus on breast cancer	Tripathi V., School of Biotechnol	Physical Sciences	Advances in Cancer Biology - Metastasis	2022	2	2
Tau neutrinos in the next decade: from GeV to EeV	Abraham R.M., Department of P	Physical Sciences	Journal of Physics G: Nuclear and Particle Physics	2022	6	112
Quality Improvement Process with Incident Learning Program Helped Reducing Transcriptional Errors on Telecobalt Due to Mismatched Parameters in Different Generations	Krishnatry R., Department of Rad	Medical and Health Sciences	Journal of Medical Physics	2022	0	29
Molecular precursor-mediated facile synthesis of phase pure metal-rich digenite (Cu _{1.85}) nanocrystals: an efficient anode for lithium-ion batteries	Karmakar G., Chemistry Division,	Chemical Sciences	Dalton Transactions	2022	2	203
Flow synthesis of poly(acrylamide-co-acrylic acid) microspheres in a microreactor: Experimental and CFD studies	Sen N., Chemical Engineering Dh	Engineering Sciences	Journal of Dispersion Science and Technology	2022	0	53
Comparative analysis of gamma rays and electron beam in altering rice (Oryza sativa L.) grain size	Arunachalam P., Department of	Life Sciences	Indian Journal of Genetics and Plant Breeding	2022	0	19
Retrospective analysis: checkpoint inhibitor accessibility for thoracic and head and neck cancers and factors influencing it in a tertiary centre in India	Patil V., Department of Medical	Medical and Health Sciences	ecancermedicalscience	2022	2	42
Situational analysis of the quality of palliative care services across India: a cross-sectional survey	Ghoshal A., Department of Pallia	Medical and Health Sciences	ecancermedicalscience	2022	0	42

Audit of screen failure in 15 randomised studies from a low and middle-income country	Parekh D., Department of Medic	Medical and Health Sciences	ecancermedicalseience	2022	0	42
Pt Nanoparticles on Vertically Aligned Large-Area MoS2 Flakes for Selective H2 Sensing at Room Temperature	Wadhwa R., Functional and Ren	Physical Sciences	ACS Applied Nano Materials	2022	2	64
Prevalence of dyspnoea and usage of opioids in managing dyspnoea in advanced cancer patients: a longitudinal observational multi-centre study from India	Ghoshal A., Department of Pallia	Medical and Health Sciences	ecancermedicalseience	2022	0	42
Chelator-Free Radiolabeling with Theoretical Insights and Preclinical Evaluation of Citrate-Functionalized Hydroxyapatite Nanospheres for Potential Use as Radionanomedicine	Patra S., Radiopharmaceuticals C	Chemical Sciences	Industrial and Engineering Chemistry Research	2022	0	246
Association of Immune-Related Adverse Effects and Survival in Solid Tumor Patients Treated with PD1 Inhibitors	Kapoor A., Department of Medic	Medical and Health Sciences	South Asian Journal of Cancer	2022	0	17
Treatment of Metastatic Colorectal Cancers in Resource-Constrained Low- and Middle-Income Countries (LMICS) Scenario-Outcomes, Practice Patterns, and Commentary on Treatment Costs	Ramaswamy A., Department of M	Medical and Health Sciences	South Asian Journal of Cancer	2022	0	17
Rationalizing the Design of Pluronic-Surfactant Mixed Micelles through Molecular Simulations and Experiments	Patel D., Department of Chemist	Physical Sciences	Langmuir	2022	1	399
COVID-19 modeling for India and a roadmap for the future	Athreya S., The Indian Statistical	Life Sciences	Communications of the ACM	2022	0	230
Welcome back!	Kapoor H.K., Indian Institute of T	Mathematical Sciences	Communications of the ACM	2022	0	230
Methylated radiation depolymerized Guar gum- a novel wall material for flavour encapsulation	Tripathi J., Food Technology Div	Life Sciences	Food Chemistry Advances	2022	0	31
Morphological analysis of debris obtained from melt coolability experiment using CaO-B2O3 corium simulant	Pandey V.K., Department of Mec	Engineering Sciences	International Journal of Nuclear Energy Science and Technology	2022	0	14
Clinical outcomes of patients treated with template-based high-dose-rate interstitial brachytherapy boost for post-operative recurrent gynecological malignancies: A retrospective analysis	Mulye G., Department of Radiat	Medical and Health Sciences	Journal of Contemporary Brachytherapy	2022	0	28
WALOP-South: a four-camera one-shot imaging polarimeter for PASIPHAE survey. Paper II – polarimetric modeling and calibration	Maharana S., Inter-University Ce	Physical Sciences	Journal of Astronomical Telescopes, Instruments, and Systems	2022	1	29
Method Validation and Measurement Uncertainty Evaluation of the Radiochemical Procedure for the Determination of ²³¹ Pa in Siliceous Cake by Gamma Spectrometry	Dalvi A., Analytical Chemistry Div	Chemical Sciences	Analytical Chemistry Letters	2022	0	13
Determination of Impurities in Graphite Using Proton Induced Gamma Ray Emission, Total Reflection X-ray Fluorescence and Instrumental Neutron Activation Analysis	Ghosh M., Analytical Chemistry U	Chemical Sciences	Analytical Chemistry Letters	2022	0	13
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Set Partitions, Tableaux, and Subspace Profiles of Regular Diagonal Operators	Prasad A., The Institute of Math	Mathematical Sciences	Seminaire Lotharingien de Combinatoire	2022	1	2
ON A THEOREM OF COOPER	Sundar S., Institute of Mathemat	Mathematical Sciences	New Zealand Journal of Mathematics	2022	0	3
Synoptic reporting in head and neck cancers - Head and Neck Cancer Imaging Reporting and Data Systems (HN-CIRADS): The journey ahead for standardization of imaging in head and neck cancer staging	Mahajan A., Department of Radi	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	5	17
A narrative review of the role of cross-sectional imaging in the management of thyroid carcinoma: Imaging guidelines and T-CIRADS	Mahajan A., Department of Radi	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	1	17
Busemann Functions in Asymptotically Harmonic Finsler Manifolds	Shah H., Harish-Chandra Researc	Mathematical Sciences	Journal of Mathematical Physics, Analysis, Geometry	2022	1	11
Comparison of double lumen tube insertion using the McGrath MAC versus direct laryngoscopy in adult patients with a limited glottis view: A prospective interventional study	Bakshi S.G., Department of Anes	Medical and Health Sciences	Journal of Anaesthesiology Clinical Pharmacology	2022	0	38
Evidence of Mass Ordering of Charm and Bottom Quark Energy Loss in Au+Au Collisions at RHIC	Abdallah M.S., American Univers	Physical Sciences	European Physical Journal C	2022	1	158
Endpoints of dental rehabilitation treatments in oncology patients: An Indian prosthodontist's perspective	Bhatia P.B., Department of Dent	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	2	17
Normal mineralization patterns of laryngeal cartilage on computed tomography and their implication for laryngeal and hypopharyngeal cancer management: A cross-sectional retrospective analysis	Sable N., Department of Radiodi	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	4	17
Role of computed tomography angiography in deep inferior epigastric perforator flap breast reconstruction surgery: A retrospective observational study	Mahajan A., Department of Radi	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	3	17
Nivolumab in platinum-refractory head-and-neck cancers: A retrospective observational audit from a tertiary cancer center	Patil V.M., Department of Medic	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	10	17
Paclitaxel with Mycicad-C in the second line and beyond in advanced head-and-neck cancer: A retrospective analysis from a tertiary cancer center	Sarma R.J., Department of Medic	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	3	17
Second opinion Interpretations by specialty radiologists in head-and-neck oncology and their impact on clinical management: A retrospective observational study	Mahaian A., Department of Radi	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	4	17
Cost-effectiveness of Post-Mastectomy Radiotherapy (PMRT) for breast cancer in India: An economic modelling study: Cost-effectiveness analysis of post-mastectomy radiotherapy (PMRT)	Gupta N., Department of Radiat	Medical and Health Sciences	The Lancet Regional Health - Southeast Asia	2022	2	31
Outcomes of COVID-19 in children with cancer – Report from the Indian Pediatric Oncology Group (InPOG) COVID-19 registry in India	Raj R., Apollo Hospitals, Chennai	Medical and Health Sciences	Pediatric Hematology Oncology Journal	2022	2	83
ECOG performance status as a representative of deficits in older Indian patients with cancer: A cross-sectional analysis from a large cohort study	Gattani S., Department of Medic	Life Sciences	Cancer Research, Statistics, and Treatment	2022	5	17
Impact of the geriatric assessment on cancer-directed systemic therapy in older Indian persons with cancer: An observational study	Noronha V., Departments of Me	Life Sciences	Cancer Research, Statistics, and Treatment	2022	3	17
Bendamustine in the third line or beyond in metastatic, recurrent, or relapsed head-and-neck cancers: A retrospective observational study	Patil V., Department of Medical I	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	4	17
NRAS mutation in differentiated thyroid cancer	Saha S., Department of Medical I	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	2	17
Timed Up and Go as a predictor of mortality in older Indian patients with cancer: An observational study	Rao A., Department of Medical C	Life Sciences	Cancer Research, Statistics, and Treatment	2022	5	17
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The masquerader	Mahajan A., Department of Radi	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	0	17
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Pre-treatment 'Lung Cancer Imaging - Reporting and Data System' (LCI-RADS) and 'Post-therapy Lung Cancer Imaging - Reporting and Data System' (pLCI-RADS): A narrative review of comprehensive synoptic reporting formats for lung cancer imaging	Chakrabarty N., Department of M	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	0	17
A metal-free reduced graphene oxide coupled covalent imine network as an anode material for lithium-ion batteries	Mondal S., School of Materials S	Chemical Sciences	Energy Advances	2022	0	42
Cyphos nitrate: A potential ionic liquid for the extraction and selective separation of plutonium (IV) from other metal ions present in nitric acid	Rout A., Materials Chemistry & M	Chemical Sciences	Journal of Ionic Liquids	2022	3	3
Achieving the quantum field theory limit in far-from-equilibrium quantum link models	Halimeh J.C., INO-CNR BEC Cent	Physical Sciences	Quantum	2022	2	45
Comparison of quantitative elemental depth distribution analyses of Ni and Ti in co-sputtered Ni-Ti alloy thin films using M ²⁺ and M ³⁺ secondary ions	Karki V., Fuel Chemistry Division,	Physical Sciences	Thin Solid Films	2022	1	206
Electrochemical performance of LAGP based polymer electrolyte for solid-state battery application	Das A., Glass & Advanced Mater	Chemical Sciences	Bulgarian Chemical Communications	2022	0	21

Effect of Electrode Profile and Polarity on Performance of Pressurized Sparkgap Switch	Gandi V.K., Homi Bhabha National Institute for	Physical Sciences	Plasma	2022	1	189
Driven nonlinear structures in flowing dusty plasmas	Bandyopadhyay P., Institute for	Physical Sciences	Reviews of Modern Plasma Physics	2022	1	17
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Esophageal cancer imaging - reporting and data system (ECI-RADS) and post-therapy ECI-RADS (pECI-RADS): Comprehensive synoptic reporting formats for esophageal cancer imaging: A narrative review	Chakrabarty N., Department of Radiology	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	0	17
Fabrication of microfluidic channel of polydimethylsiloxane using X-ray lithography and its surface nanostructuring	Mondal P., Lithography and Microfluidics	Physical Sciences	Journal of Micromanufacturing	2022	1	5
Evaluating blinatumomab implementation in low- and middle-income countries: a study protocol	Duffy C., Department of Oncology	Medical and Health Sciences	Implementation Science Communications	2022	1	11
Deviation from standard cancer treatment during the first wave of the COVID-19 pandemic in India: A cross-sectional study	Noronha V., Department of Medical Oncology	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	8	17
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Efficacy and safety of induction weekly paclitaxel and carboplatin in esophageal cancer: A retrospective study	Goli V.B., Department of Medical Oncology	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	1	17
Significance of too-small-to-characterize (TSTC) pulmonary nodules in known extrapulmonary solid tumors: A retrospective observational study	Mahajan A., Department of Radiology	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	2	17
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From Diamond Princess to Cordelia Cruises (Empress): Déjà vu in the New Year, lessons unlearned!	Chakrabarty N., Department of Radiology	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	0	17
EGFR exon 20 insertion in non-small cell lung cancer	Panda G., Department of Medical Oncology	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	2	17
Residual disease in a case of esophageal cancer	Vora D.N., Department of Medical Oncology	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	0	17
Lethal implications of cornerstone treatment in hard palate cancer	Mahajan A., Department of Radiology	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	0	17
Management of Through-and-Through Oromandibular Defects After Segmental Mandiblectomy with Fibula Osteoautogenous Flap	Mathews S., Department of Plastic Surgery	Medical and Health Sciences	Journal of Reconstructive Microsurgery	2022	0	61
Long-term behaviour of Uranium in soil system: Understanding the processes controlling the bioavailability	Rout S., Environmental Monitoring and Assessment	Chemical Sciences	Journal of Hazardous Materials Advances	2022	0	4
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Parametric studies on laser additive manufacturing of copper on stainless steel	Yadav S., Homi Bhabha National Institute for	Engineering Sciences	Journal of Micromanufacturing	2022	1	5
Current drive experiments in SST1 tokamak with lower hybrid waves	Sharma P., Institute for Plasma Physics	Physical Sciences	Nuclear Fusion	2022	0	132
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Estimation of 177Lu activity produced from direct and indirect routes in Indian research reactors	Singh T., Reactor Physics and Nuclear Engineering	Engineering Sciences	Life Cycle Reliability and Safety Engineering	2022		9
Functional metal-organic frameworks for metal removal from aqueous solutions	Vitres H., Centro De Investigaciones Científicas	Chemical Sciences	Separation and Purification Reviews	2022	17	63
Trypsin Detection Strategies: A Review	Kaur J., Radiation & Photochemistry	Chemical Sciences	Critical Reviews in Analytical Chemistry	2022	25	69
Precision vascular anatomy for minimally invasive distal pancreatectomy: A systematic review	Nishino H., Department of Gastroenterology	Medical and Health Sciences	Journal of Hepato-Biliary-Pancreatic Sciences	2022	7	60
Transition metal compounds as solar selective material	Patil R.G., J B Joshi Research Foundation	Engineering Sciences	Reviews in Chemical Engineering	2022	4	69
Dysregulation of mitophagy and mitochondrial homeostasis in cancer stem cells: Novel mechanism for anti-cancer stem cell-targeted cancer therapy	Praharaj P.P., Cancer and Cell Death	Life Sciences	British Journal of Pharmacology	2022	8	234
Seeing Is Not Believing: Intraoperative Nerve Monitoring (IONM) in the Thyroid Surgery	Deshmukh A., Department of Head and Neck Surgery	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	1	21
Parathyroid Carcinoma: a Review	Sawhney S., Department of Head and Neck Surgery	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	3	21
Salvage radiotherapy for postoperative locoregional failure in esophageal cancer: a systematic review and meta-analysis	Mummudi N., Department of Radiation Oncology	Medical and Health Sciences	Diseases of the Esophagus	2022	3	63
Hydroxychloroquine in the treatment of coronavirus disease 2019: Rapid updated systematic review and meta-analysis	Gupta T., Department of Radiology	Medical and Health Sciences	Reviews in Medical Virology	2022	4	102
Systemic Therapy in Thyroid Cancer	Agrawal A.K., Department of Medical Oncology	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	1	21
Boron doped carbon nanotubes: Synthesis, characterization and emerging applications – A review	Sawant S.V., Department of Chemical Engineering	Engineering Sciences	Chemical Engineering Journal	2022	52	280
Molecular Insights into Oral Malignancy	Deshmukh A., Department of Head and Neck Surgery	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	1	21
Tuning composition space in lead-free divalent and tetravalent halide perovskite - a critical review	Sarang A., Materials Theory for Energy	Physical Sciences	Emergent Materials	2022	1	22
Role of stress granules in modulating senescence and promoting cancer progression: Special emphasis on glioma	Chatterjee D., Biophysics & Structural Biology	Life Sciences	International Journal of Cancer	2022	5	261
Overview of Cold Stress Regulation in Plants	Manasa S L., Department of Agronomy	Life Sciences	Botanical Review	2022	14	75
Reported Catalytic Hydrofunctionalizations that Proceed in the Absence of Catalysts: The Importance of Control Experiments	Sau S., School of Chemical Sciences	Chemical Sciences	Chemical Record	2022	8	89
Multifunctional lipidic nanocarriers for effective therapy of glioblastoma: recent advances in stimuli-responsive, receptor and subcellular targeted approaches	Hegde M.M., Department of Radiology	Medical and Health Sciences	Journal of Pharmaceutical Investigation	2022	17	36
Airway management in critically ill patients. From International Studies to Clinical Practice – A summary from an EAMS webinar	Chiesa P., Department of Anaesthesiology	Medical and Health Sciences	Trends in Anaesthesia and Critical Care	2022	1	23
Clinical doses production of pharmaceutical grade Sodium[18F]Fluoride using modified integrated fluidic processor in a SYNTHERA® module	Chattopadhyay S., Medical Cyclotron	Medical and Health Sciences	Applied Radiation and Isotopes	2022	0	85
Organic Devices: Fabrication, Applications, and Challenges	Chauhan A.K., Technical Physics	Physical Sciences	Journal of Electronic Materials	2022	13	107
dissection versus sentinel lymph node biopsy in early-stage clinically node-negative oral and/or oropharyngeal squamous cell carcinoma: Evidence-base for practice and implications for research	Gupta T., Department of Radiology	Medical and Health Sciences	Oral Oncology	2022	12	108
Randomised clinical trials in critical care: past, present and future	Granhölm A., Department of Intensive Care	Medical and Health Sciences	Intensive Care Medicine	2022	25	219
Gallbladder reporting and data system (GB-RADS) for risk stratification of gallbladder wall thickening on ultrasonography: an international expert consensus	Gupta P., Department of Radiology	Medical and Health Sciences	Abdominal Radiology	2022	13	83
Mycoparasitism as a mechanism of Trichoderma-mediated suppression of plant diseases	Mukherjee P.K., Nuclear Agriculture	Life Sciences	Fungal Biology Reviews	2022	39	61

Nanomaterial based advancement in the inorganic pyrophosphate detection methods in the last decade: A review	Kaur J., Radiation & Photochem	Chemical Sciences	TrAC - Trends in Analytical Chemistry	2022	9	198
Electrochemical methods in understanding the redox processes of drugs and biomolecules and their sensing	Manna S., Analytical Chemistry	Chemical Sciences	Current Opinion in Electrochemistry	2022	8	57
A global approach to improving penile cancer care	Bandini M., Urological Research	Medical and Health Sciences	Nature Reviews Urology	2022	18	100
Simulation study on radiation fields around targets to apply CR-39 for photo-neutron measurement in electron accelerator near the threshold energy	Sahoo G.S., Health Physics Division	Physical Sciences	Applied Radiation and Isotopes	2022	1	85
Regulation of extrinsic apoptotic signaling by c-FLIP: towards targeting cancer networks	Ivanenko N.V., The Federal Res	Life Sciences	Trends in Cancer	2022	21	75
Ground-based gamma-ray astronomy: history and development of techniques	Bose D., Department of Astroph	Physical Sciences	European Physical Journal: Special Topics	2022	6	84
Removal of Emerging Contaminants from Wastewater Streams Using Membrane Bioreactors: A Review	Sengupta A., Radiochemistry Div	Chemical Sciences	Membranes	2022	16	58
Resource-appropriate selection of osteosarcoma treatment protocols in low- and middle-income countries	Mallankody S., Department of M	Medical and Health Sciences	Pediatric Blood and Cancer	2022	5	130
Genetic alterations and oxidative stress in T cell lymphomas	Kumar S., Department of Biosci	Medical and Health Sciences	Pharmacology and Therapeutics	2022	2	220
Role of systems biology and multi-omics analyses in delineating spatial interconnectivity and temporal dynamics of ER stress mediated cellular responses	Mallick P., Structural Biology and	Life Sciences	Biochimica et Biophysica Acta - Molecular Cell Research	2022	1	105
Systematic review and meta-analysis of survival outcomes in T2a and T2b gallbladder cancers	Alrawashdeh W., Department of	Medical and Health Sciences	HPB	2022	3	85
Galactic and extragalactic sources of very high energy gamma rays	Bose D., Department of Astroph	Physical Sciences	European Physical Journal: Special Topics	2022	3	84
Thioredoxin reductase: An emerging pharmacologic target for radiosensitization of cancer	Patwardhan R.S., Radiation Biolo	Life Sciences	Translational Oncology	2022	10	66
Identification of key gene signatures for the overall survival of ovarian cancer	Pawar A., Section of Biostatistic	Medical and Health Sciences	Journal of Ovarian Research	2022	4	49
Stereotactic Radiotherapy after Radical Prostatectomy in Patients with Prostate Cancer in the Adjuvant or Salvage Setting: A Systematic Review	Schröder C., Institute for Radiati	Medical and Health Sciences	Cancers	2022	7	111
Consensus guidelines and recommendations for infection prevention in multiple myeloma: a report from the International Myeloma Working Group	Raje N.S., Center for Multiple M	Medical and Health Sciences	The Lancet Haematology	2022	27	82
Synchrotron based spectroscopic investigation of N,N-dimethylacetamide	Singh P.J., Atomic & Molecular P	Physical Sciences	Journal of Quantitative Spectroscopy and Radiative Transfer	2022	1	116
Involvement of serine / threonine protein kinases in DNA damage response and cell division in bacteria	Raipurohit Y.S., Molecular Biolog	Life Sciences	Research in Microbiology	2022	3	114
Stress Responses as Master Keys to Epigenomic Changes in Transcriptome and Metabolome for Cancer Etiology and Therapeutics	Mondal A., Biophysics and Struct	Life Sciences	Molecular and Cellular Biology	2022	1	347
Preparation of Rhenium-188-Lipiodol Using Freeze-Dried Kits for Transarterial Radioembolization: An Overview and Experience in a Hospital Radiopharmacy	Radhakrishnan E.R., Kovai Medic	Chemical Sciences	Cancer Biotherapy and Radiopharmaceuticals	2022	2	66
Unicameral Bone Cysts: Review of Etiopathogenesis and Current Concepts in Diagnosis and Management	Rajasekaran R.B., Musculoskelet	Medical and Health Sciences	Indian Journal of Orthopaedics	2022	0	38
Estimation of vacuum vessel time-constant in ADITYA-U tokamak	Kumar R., Institute for Plasma Re	Physical Sciences	Fusion Engineering and Design	2022	2	87
Unravelling the Dichotomy of Enigmatic Serine Protease HTRA2	Chakraborty A., Integrated Biop	Life Sciences	Frontiers in Molecular Biosciences	2022	4	61
Infection control in the intensive care unit: expert consensus statements for SARS-CoV-2 using a Delphi method	Nasa P., NMC Speciality Hospital	Medical and Health Sciences	The Lancet Infectious Diseases	2022	7	379
A Radiologist's Perspective on Treatment-Related Pseudoprogression: Clues and Hues	Chakrabarty N., Department of R	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	3	26
Modern Radiation Oncology: From IMRT to Particle Therapy-Present Status and the Days to Come	Laskar S.G., Department of Radia	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Metastatic Lobular Carcinoma of the Male Breast Masquerading as a Pancreatic Head Mass, a Diagnostic Dilemma-Rare Case and Literature Review	Mor A.G., Department of Surgic	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	1	26
Gynecologic Oncology: On the Shoulders of Giants	Kulkarni R., Department of Gyna	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Role of Disulphide Bonds in Membrane Partitioning of a Viral Peptide	Sikdar S., The Institute of Mathe	Physical Sciences	Journal of Membrane Biology	2022	4	109
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Retropitoneal Sarcomas: a Current Review on Management	Patkar S., Department of Gastro	Medical and Health Sciences	Indian Journal of Surgical Oncology	2022	0	21
Development of Advanced Nuclear Structural Materials for Sustainable Energy Development	Srivastava D., Nuclear Fuel Com	Physical Sciences	Journal of the Indian Institute of Science	2022	1	34
Overview of recent experimental results from the ADITYA-U tokamak	Tanna R.L., Institute for Plasma F	Physical Sciences	Nuclear Fusion	2022	9	132
Operating a full tungsten actively cooled tokamak: Overview of WEST first phase of operation	Bucalossi J., CEA, IRFM, Saint-Pa	Physical Sciences	Nuclear Fusion	2022	24	132
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Metal Complexes of Singly, Doubly and Triply Linked Porphyrins and Corroles: An Insight into the Physicochemical Properties	Hazari A.S., Lehrstuhl für Anorga	Chemical Sciences	Chemistry - A European Journal	2022	4	261
Perception and Improvisation of Gender Climate in Oncology and Role of International and National Societies	Baipai J., Department of Medical	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	2	26
Direct dissolution of metal oxides in ionic liquids as a smart strategy for separations: Current status and prospective	Mahanty B., Radiochemistry Div	Chemical Sciences	Separation Science and Technology (Philadelphia)	2022	7	87
The physiologically difficult airway: An emerging concept	Myatra S.N., Department of Ane	Medical and Health Sciences	Current Opinion in Anaesthesiology	2022	12	80
Minimally invasive surgery for pancreatic cancer - are we there yet? - a narrative review	Bhandare M.S., Gastrointestinal	Medical and Health Sciences	Chinese Clinical Oncology	2022	4	32
"Mitigation strategies for post-operative pancreatic fistula after pancreaticoduodenectomy in high-risk pancreas: an evidence-based algorithmic approach" - a narrative review	Parray A.M., Gastrointestinal and	Medical and Health Sciences	Chinese Clinical Oncology	2022	0	32
Neoadjuvant chemotherapy followed by surgery in cervical cancer: Past, present and future	Miriyala R., Radiation Oncology, I	Medical and Health Sciences	International Journal of Gynecological Cancer	2022	7	95
Measuring Membrane Penetration Depths and Conformational Changes in Membrane Peptides and Proteins	Brahma R., Crystallography and I	Life Sciences	Journal of Membrane Biology	2022	2	109
Exfoliated graphene and its derivatives from liquid phase and their role in performance enhancement of epoxy matrix composite	Biranjie P.M., Department of Che	Engineering Sciences	Composites Part A: Applied Science and Manufacturing	2022	8	206
Investigating Atmospheric Pressure Plasma Spray Coating of YPO4 and its Performance as a Corrosion Barrier Protective Layer Against Molten Uranium	Bhandari S., HomiBhabha Nation	Chemical Sciences	Journal of Thermal Spray Technology	2022	1	94
Dosimetry in Lu-177-PSMA-617 prostate-specific membrane antigen targeted radioligand therapy: a systematic review	Nautiyal A., Department of Nucl	Medical and Health Sciences	Nuclear Medicine Communications	2022	5	78

Estimation of production cross-sections, transmutation and gas generation from radionuclides (A ~50-60) in fusion environment	Pandey J., ITER-India, Institute for	Physical Sciences	Applied Radiation and Isotopes	2022	0	85
Critical Review of the Current Evidence on Sentinel Node Biopsy in Oral Cancer	Singh A., Head and Neck Oncology	Medical and Health Sciences	Current Oncology Reports	2022	1	73
Domain wall memory: Physics, materials, and devices	Kumar D., School of Physical and	Physical Sciences	Physics Reports	2022	24	306
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Comparative Evaluation of Safety and Efficacy of Alternate Schedule (AS) of Sunitinib in Asian and Non-Asian Patient Population for the Treatment of Metastatic Renal Cell Cancer (mRCC): A Meta-Analysis	Joshi A., Department of Medical Oncology	Medical and Health Sciences	Kidney Cancer	2022	0	9
Expert survey on management of prostate cancer in India: Real-world insights into practice patterns	Bakshi G., Department Of Uro-Oncology	Medical and Health Sciences	Indian Journal of Cancer	2022	0	42
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Catalytic Enantioselective Decarboxylative Aldol Reactions of Malonic Acid Half Thio(ox)ester and β -ketoacids	Chowdhury R., Bio-Organic Division	Chemical Sciences	European Journal of Organic Chemistry	2022	1	167
Bioelastomers: Current state of development	Magaña I., Research Center for Applied	Physical Sciences	Journal of Materials Chemistry A	2022	11	276
Search for the QCD critical point in high energy nuclear collisions	Pandav A., School of Physical Sciences	Physical Sciences	Progress in Particle and Nuclear Physics	2022	8	124
Imaging for Plasma Cell Dyscrasias: What, When, and How?	Guha A., Department of Radiodiagnosis	Medical and Health Sciences	Frontiers in Oncology	2022	1	121
Cancer cervix: Epidemiology and disease burden	Pimple S., Department of Preventive	Medical and Health Sciences	CytoJournal	2022	15	29
Videolaryngoscopy for all intubations: Is direct laryngoscopy obsolete?	Myatra S.N., Department of Anaesthesiology	Medical and Health Sciences	Indian Journal of Anaesthesia	2022	4	39
Recent advances in the synthesis of luminescent tetra-coordinated boron compounds	Murali A.C., School of Chemical Sciences	Chemical Sciences	Dalton Transactions	2022	19	203
Radiomics: a quantitative imaging biomarker in precision oncology	Jha A.K., Department of Nuclear Medicine	Medical and Health Sciences	Nuclear Medicine Communications	2022	3	78
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Oncobiology and treatment of breast cancer in young women	Kumar R., Cancer Research Institute	Medical and Health Sciences	Cancer and Metastasis Reviews	2022	3	158
On the mineralization of nanocellulose to produce functional hybrid materials	Valencia L., Biofiber Tech Sweden	Physical Sciences	Journal of Materials Chemistry A	2022	3	270
Ligand chemistry of gold, silver and copper nanoparticles for visual read-out assay of pesticides: A review	Mehta V.N., ASPEE SHAKILAM Biosciences	Chemical Sciences	TrAC - Trends in Analytical Chemistry	2022	28	198
Extra-Nodal Follicular Dendritic Cell Sarcoma with Unusual Morphological Features and PDL1 Expression	Ranade M., Department of Pathology	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies	Abdalla E., Instituto de Física, Universidade	Physical Sciences	Journal of High Energy Astrophysics	2022	222	20
Fungal Infections: Pathogenesis, antifungals and alternate treatment approaches	Reddy G.K.K., Biofouling and Bioremediation	Life Sciences	Current Research in Microbial Sciences	2022	8	12
Catalytic Hydrogenation of Epoxides to Alcohols	Thiyagarajan S., School of Chemistry	Chemical Sciences	Chemistry - An Asian Journal	2022	4	110
Insights on Proteomics-Driven Body Fluid-Based Biomarkers of Cervical Cancer	Mukherjee A., Department of Biotechnology	Life Sciences	Proteomes	2022	0	29
Chemical Interface Damping in Nonstoichiometric Semiconductor Plasmonic Nanocrystals: An Effect of the Surrounding Environment	Ghorai N., Institute of Nano Science	Chemical Sciences	Langmuir	2022	3	359
Paediatric type diffuse high grade gliomas in the WHO CNS5 classification: What the pathologist needs to know?	Rao S., Department of Pathology	Medical and Health Sciences	Indian Journal of Pathology and Microbiology	2022	1	33
Recent developments, challenges, and opportunities in genetic improvement of essential oil-bearing rose (Rosa damascena): A review	Venkatesha K.T., Central Institute of Horticulture	Life Sciences	Industrial Crops and Products	2022	10	158
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Dynamic PET in prostate cancer: basic concepts and potential applications	Dhingra V.K., Department of Nuclear	Medical and Health Sciences	Clinical and Translational Imaging	2022	0	32
The Promise of Magnetic Resonance Imaging in Radiation Oncology Practice in the Management of Brain, Prostate, and GI Malignancies	Srinivasan S., Department of Radiation	Medical and Health Sciences	JCO Global Oncology	2022	3	33
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A review on single crystal and thin film Si-Ge alloy: growth and applications	Basu R., Technical Physics Division	Physical Sciences	Materials Advances	2022	6	28
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Toward Improved Outcomes for Patients with Lung Cancer Globally: The Essential Role of Radiology and Nuclear Medicine	Mikhail Lette M.N., Division of Hematology	Medical and Health Sciences	JCO Global Oncology	2022	0	33
Monoclonal antibodies used for the management of hematological disorders	Ghosh K., Department of Haematology	Medical and Health Sciences	Expert Review of Hematology	2022	0	49
Amyloids on Membrane Interfaces: Implications for Neurodegeneration	Mahakud A.K., School of Biological	Life Sciences	Journal of Membrane Biology	2022	1	109
WHO 2022 landscape of papillary and chromophobe renal cell carcinoma	Lobo J., Department of Pathology	Medical and Health Sciences	Histopathology	2022	17	136
Preoperative Investigations: Practice Guidelines from the Indian Society of Anaesthesiologists	Umesh G., Department of Anaesthesiology	Medical and Health Sciences	Indian Journal of Anaesthesia	2022	7	39
Noncovalent interactions in proteins and nucleic acids: beyond hydrogen bonding and π -stacking	Jena S., School of Chemical Sciences	Chemical Sciences	Chemical Society Reviews	2022	28	595
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An Appraisal and Update of Fluorodeoxyglucose and Non-Fluorodeoxyglucose-PET Tracers in Thyroid and Non-Thyroid Endocrine Neoplasms	Adnan A., Radiation Medicine Centre	Medical and Health Sciences	PET Clinics	2022	0	31
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The 5th edition of the World Health Organization Classification of Haematolymphoid Tumours: Myeloid and Histiocytic/Dendritic Neoplasms	Khoury J.D., Department of Hem	Medical and Health Sciences	Leukemia	2022	601	211
Molecular Imaging Assessment of Hormonally Sensitive Breast Cancer: An Appraisal of 2-[18F]-Fluoro-2-Deoxy-Glucose and Newer Non-2-[18F]-Fluoro-2-Deoxy-Glucose PET Tracers	Yadav D., MD Anderson Cancer C	Medical and Health Sciences	PET Clinics	2022	0	31
Advances in improvement of soybean seed composition traits using genetic, genomic and biotechnological approaches	Gupta S.K., Nuclear Agriculture a	Life Sciences	Euphytica	2022	3	116
An introduction to the WHO 5th edition 2022 classification of testicular tumours	Berney D.M., Department of Mo	Medical and Health Sciences	Histopathology	2022	15	136
Recent Developments and Future Perspective on Electrochemical Glucose Sensors Based on 2D Materials	Radhakrishnan S., Centre for Nan	Physical Sciences	Biosensors	2022	17	59
The radiophiles of Deinococcaceae family: Resourceful microbes for innovative biotechnological applications	Basu B., Molecular Biology Divisi	Life Sciences	Current Research in Microbial Sciences	2022	1	12
Role of prophylactic HIPEC in non-metastatic, serosa-invasive gastric cancer: A literature review	Kunte A.R., Department of Surg	Medical and Health Sciences	Pleura and Peritoneum	2022	0	19
The current treatment approach to adolescents and young adults with acute lymphoblastic leukemia (AYA-ALL): challenges and considerations	Jain H., Department of Medical C	Medical and Health Sciences	Expert Review of Anticancer Therapy	2022	1	79
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Thermal and rheological properties of magnetic nanofluids: Recent advances and future directions	Vinod S., Smart Materials Secto	Physical Sciences	Advances in Colloid and Interface Science	2022	16	210
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Adding years to life costs!	Pathak R.S., Department of Radi	Medical and Health Sciences	Journal of Thoracic Disease	2022	0	79
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How can assessing hemodynamics help to assess volume status?	De Backer D., Department of Int	Medical and Health Sciences	Intensive Care Medicine	2022	27	219
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What's new in WHO fifth edition – urinary tract	Comperat E., Department of Pat	Medical and Health Sciences	Histopathology	2022	1	136
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Voyage of selenium from environment to life: Beneficial or toxic?	Banerjee M., Molecular Biology C	Life Sciences	Journal of Biochemical and Molecular Toxicology	2022	4	67
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Quality and Safety With Technological Advancements in Radiotherapy: An Overview and Journey Narrative From a Low- and Middle-income Country Institution	Manjali J.J., Department of Radi	Medical and Health Sciences	JCO global oncology	2022	2	33
Lung Cancer Management in Low and Middle-income Countries	Jiwani S., Division of Thoracic S	Medical and Health Sciences	Thoracic surgery clinics	2022	1	51
Access to Radiation Therapy: From Local to Global and Equality to Equity	Laskar S.G., Department of Radi	Medical and Health Sciences	JCO global oncology	2022	9	33
Retrospective observational studies in ultra-rare sarcomas: A consensus paper from the Connective Tissue Oncology Society (CTOS) community of experts on the minimum requirements for the evaluation of activity of systemic treatments	Stacchiotti S., Department of Me	Medical and Health Sciences	Cancer Treatment Reviews	2022	6	153
Implications of Oncology Trial Design and Uncertainties in Efficacy-Safety Data on Health Technology Assessments	Trapani D., European Institute of	Medical and Health Sciences	Current Oncology	2022	6	63
How to improve intubation in the intensive care unit. Update on knowledge and devices	De Jong A., Intensive Care Unit, J	Medical and Health Sciences	Intensive Care Medicine	2022	5	219
Explorations in a galaxy of silicic acids: a review of sensing horizons, motivated by emerging biomedical and nutritional relevance	Guin S.K., Department of Chemi	Chemical Sciences	Sensors and Diagnostics	2022	7	5
Interplay of transcription factors orchestrating the biosynthesis of plant alkaloids	Godbole R.C., Department of Bo	Life Sciences	3 Biotech	2022	3	66
H&N and Skin (PHNS) GEC-ESTRO Working Group critical review of recommendations regarding prescription depth, bolus thickness and maximum dose in skin superficial brachytherapy with flaps and customized moulds	Gonzalez-Perez V., Department	Medical and Health Sciences	Radiotherapy and Oncology	2022	4	174
A practical evaluation on integrated role of biochar and nanomaterials in soil remediation processes	Rajput V.D., Academy of Biology	Life Sciences	Environmental Geochemistry and Health	2022	2	84
Optimising clinical outcomes with innovative research in the intensive care unit	Patil V., Department of Anaesthe	Medical and Health Sciences	Indian Journal of Anaesthesia	2022	2	39
Coordination Chemistry of Main Group Metals with Organic Isocyanides	Mukhopadhyay S., School of Che	Chemical Sciences	European Journal of Inorganic Chemistry	2022	1	143
Diverse reactivity of alkynes in C-H activation reactions	Banjare S.K., School of Chemical	Chemical Sciences	Chemical Communications	2022	7	363
A review on recent advances in graphene oxide-based composite coatings for anticorrosion applications	Jena G., Corrosion Science and T	Physical Sciences	Progress in Organic Coatings	2022	16	103
Advancement in the Breeding, Biotechnological and Genomic Tools towards Development of Durable Genetic Resistance against the Rice Blast Disease	Sahu P.K., Department of Geneti	Life Sciences	Plants	2022	3	67
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Roles of Impurity and Sample Heterogeneity in Intriguing Photoluminescence Properties of Zero-Dimensional (0D) Carbonaceous Materials	Mishra K., School of Chemical Sc	Chemical Sciences	Journal of Physical Chemistry C	2022	1	323
Ga-68 Prostate-Specific Membrane Antigen PET/CT: Imaging and Clinical Perspective in Prostate Cancer: Imaging and Clinical Perspective in Prostate Cancer	Puranik A.D., Department of Nuc	Medical and Health Sciences	PET Clinics	2022	0	31
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Management of breast cancer diagnosed during pregnancy: global perspectives	Baipai J., Department of Medical	Medical and Health Sciences	Expert Review of Anticancer Therapy	2022	1	79
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A.B.C. of Immunotherapy in Hematological Malignancies...Promise and Perils	Baipai J., Department of Medical	Medical and Health Sciences	Indian Journal of Medical and Paediatric Oncology	2022	0	26
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Prognostic Impact of Baseline Liver Metastasis in ALK Fusion-Positive Metastatic Lung Cancer: A Retrospective Review	Khaddar S., Department of Medi	Medical and Health Sciences	South Asian Journal of Cancer	2022	1	17
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Proposed sub-compartmentalization of high infratemporal fossa involvement in gingivobuccal cancers and its impact on clinical outcome and staging: A narrative review	Mahaian A., Department of Radi	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	2	17
Catalyst-Free Photoinduced C-C Bond Formations	Bera S.K., School of Chemical So	Chemical Sciences	Synthesis (Germany)	2022	2	151
A narrative review on radiation risk from imaging for COVID-19: Breaking the myths and the myths	Chakrabarty N., Department of I	Medical and Health Sciences	Cancer Research, Statistics, and Treatment	2022	1	17
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