

3.4.6 Number of books and chapters in edited volumes published per teacher during the year

3.4.6.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference proceedings during the year

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Obaidurrahman K., John Arul A., Ramakrishnan M., Singh O.P.	Physics of Nuclear Reactors		Nuclear reactor safety			2021	9780128224410	Atomic Energy Regulatory Board, Maharashtra, Mumbai, India; Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; Homi Bhabha National Institute, Maharashtra, Mumbai, India; Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; Indian Institute of Technology Kanpur, Uttar Pradesh, Kanpur, India	Elsevier
2	Devan K., Bachchan A.	Physics of Nuclear Reactors		Homogeneous reactor and neutron diffusion equation			2021	9780128224410	Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; Homi Bhabha National Institute, Maharashtra, Mumbai, India	Elsevier
3	Khan S.A., Bachchan A., Devan K., Umashankar K.	Physics of Nuclear Reactors		Design methods and computer codes			2021	9780128224410	Bhabha Atomic Research Centre, Maharashtra, Mumbai, India; Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; Homi Bhabha National Institute, Maharashtra, Mumbai, India	Elsevier
4	Deo K., Kumar R., Devan K., Umashankar K.	Physics of Nuclear Reactors		Experimental and operational reactor physics			2021	9780128224410	Bhabha Atomic Research Centre, Maharashtra, Mumbai, India; Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; Homi Bhabha National Institute, Maharashtra, Mumbai, India	Elsevier
5	John Arul A., Obaidurrahman K., Prasad R.R., Singh O.P.	Physics of Nuclear Reactors		Nuclear reactor kinetics	Proceedings of Advances in Reactor Physics 2022		2021	9780128224410	Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; Homi Bhabha National Institute, Maharashtra, Mumbai, India; Atomic Energy Regulatory Board, Maharashtra, Mumbai, India; Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; Indian Institute of Technology Kanpur, Uttar Pradesh, Kanpur, India	Elsevier
6	Das S., Dhara S.	Chemical Solution Synthesis for Materials Design and Thin Film Device Applications	Introduction	Chemical Solution Synthesis for Materials Design and Thin Film Device Applications			2021	9780128197189	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; School of Medical Science and Technology, Indian Institute of Technology, West Bengal, Kharagpur, 721302, India; Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Tamil Nadu, Kalpakkam, India	Elsevier
7	Mahandharipati P., Singh O.P., Umashankar K.	Physics of Nuclear Reactors		Physics of Nuclear Reactors			2021	9780128224410	Bhabha Atomic Research Centre (BARC), Maharashtra, Mumbai, India; Indira Gandhi Centre for Atomic Research (IGCAR), Tamil Nadu, Kalpakkam, India; Atomic Energy Regulatory Board (AERB), Maharashtra, Mumbai, India; Indian Institute of Technology Kanpur (IITK), Uttar Pradesh, Kanpur, India; Bhabha Atomic Research Centre (BARC), Maharashtra, Mumbai, India; Homi Bhabha National Institute (HBNI), Maharashtra, Mumbai, India	Elsevier
8	Mukhopadhyay C.K., Mulveykar R.	Lecture Notes in Mechanical Engineering	Preface				2021	21954556 / 9789811601859	Metalurgy and Materials Group (MMG) Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India; Department of Electrical Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India	Springer Science and Business Media Deutschland GmbH
9	Das S., Dhara S.	Chemical Solution Synthesis for Materials Design and Thin Film Device Applications	Introduction				2021	9780128197189	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; School of Medical Science and Technology, Indian Institute of Technology, West Bengal, Kharagpur, 721302, India; Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Tamil Nadu, Kalpakkam, India	Elsevier
10	Chitra N., Jose M.T., Venkatarman B.			Methodology to estimate using thomson concentration online monitors in flow mode with low flow rates			2021	00942643X / 9780175441057	Health Safety and Environment Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India	American Institute of Physics Inc.
11	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
12	Ramya V., Sharma M.K., Jhaadevan R., Venkatarman B., Sheet D.		Adversarial Training of Deep Convolutional Neural Network for Multi-organ Segmentation in Multi-sequence MRI of the Abdomen		International Conference on Intelligent Technologies (CONFIT)		2021	9781728185835	HBNI, IGCAR, Kalpakkam, India; IIT Kharagpur, West Bengal, India; IIT Kharagpur, CAL West Bengal, India	Institute of Electrical and Electronics Engineers Inc.
13	Kumar A., Nagaraja Bhat Y.V., Sreedhar B.K., Sundar Raj S.T., Mangun S., Sivaraj P.	Machines, Mechanism and Robotics: Design, Analysis and Development of Steep Arm Scanner for Scanning Fast Breeder Reactor Core			Proceedings of INoCAM2021		2021	21954556 / 9789811557002	Fuel Reactor Technology Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Springer Science and Business Media Deutschland GmbH
14	Suresh Kumar R., Kanishk, Rao B.N., Velamuri K.	Fatigue, Durability, and Fracture Mechanics			Proceedings of Fatigue Durability India 2019		2021	21954556 / 9789811645782	Indira Gandhi Centre for Atomic Research, Kalpakkam, India; DHRD Research & Engineering Ltd., Bangalore, India; Indian Institute of Technology Madras, Chennai, India	Springer Science and Business Media Deutschland GmbH
15	Satya S., Mahalingeshwari M., Chennaisa P.K., Mangun S.	Advances in Mechanical Processing and Design			Proceedings of ICAMFD 2019		2021	21954556 / 9789811577789	Homi Bhabha National Institute, Mumbai, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, Tamil Nadu, India	Springer Science and Business Media Deutschland GmbH
16	Nitesan K., Velamuri K., Kasinathan N.	Transient Thermal Stratification in Sodium Pool of a Fast Reactor			Proceedings of FMAP 2019		2021	21954556 / 9789811606977	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer Science and Business Media Deutschland GmbH
17	Srihar S., Naveen Raj M., Velamuri K.				Department of Chemical Engineering, NIT Trichy-Trichy, India; FRIG-IGCAR, Kalpakkam, India; NSAS/RCRC-IGCAR, Kalpakkam, India		2021	21954556 / 9789811606977	Springer Science and Business Media Deutschland GmbH	
18	Dhayan R., Kumar A., Mukhopadhyay C.K.	Advances in Non-destructive Evaluation/EMAT Phased Array Inspection of Thick Austenitic Stainless Steel and Dissimilar Metal Welds			Proceedings of NDE 2019		2021	21954556 / 9789811601859	Non-Destructive Evaluation Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India	Springer Science and Business Media Deutschland GmbH
19	Bhama, Kumar A.	Total Focusing Method-Based Ultrasonic Phased Array Imagers in Thick Structures					2021	21954556 / 9789811601859	Non-Destructive Evaluation Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, Tamil Nadu, 603102, India	Springer Science and Business Media Deutschland GmbH
20	Ravva N., Sitam N., Usha N., Sharath D., Ravi P., Hiremath B., Venkatarman B., Menka M.	Advances in Non-destructive Evaluation/Asymmetrical Analysis of Breast Thermal Images for Detection of Breast Cancer					2021	21954556 / 9789811601859	Center for Imaging Technologies, M.S. Ramaiah Institute of Technology, Bengaluru, India; Department of Surgery, M.S. Ramaiah Medical College and Hospital, Bengaluru, India; Safety, Quality and Resources Management Group, IGCAR, Kalpakkam, India	Springer Science and Business Media Deutschland GmbH
21	Jeeplata J., Dhananath M., Sreebhargavi A., Venkatarman B., Menka M.			Statistical Analysis on Breast Thermogram using Logistic Regression for Image Classification			2021	9781665417587	Kalsangyan Academy of Research and Education, Dept. of Ece, Srirangapatna, India; Poo College of Engineering and Technology, Dept. of Ece, Trivanchur, India; National Engineering College, Dept. of Ece, Kottayam, India; Indira Gandhi Centre for Atomic Research, Safety, Quality, and Resource Management Group, Kalpakkam, India	Institute of Electrical and Electronics Engineers Inc.
22	Pattanjayak S., Dash S.K., Sivakumar S., Shanmuga G.						2021	9780738129156	IGCAR, Reactor Facilities Group, Kalpakkam, India; IGCAR, Fuel Reactor Technology Group, Kalpakkam, India	Institute of Electrical and Electronics Engineers Inc.
23	Kumar V., Sharma M.K., Jhaadevan R., Venkatarman B., Sunan G., Patra A., Goska A.H., Sheet D.						2021	1557170X / 9781728111797	Indira Gandhi Centre for Atomic Research, HBNI, Tamil Nadu, Kalpakkam, 603102, India; Department of Electrical Engineering, Indian Institute of Technology, Kharagpur, 721302, India; Department of Radiology, Mayo Clinic, Rochester, MN, United States; Department of Electrical Engineering, Center of Excellence in Artificial Intelligence, Indian Institute of Technology, Kharagpur, India	Institute of Electrical and Electronics Engineers Inc.
24	Rao E.H., Shukla P.K., Varghese P., Palaki S.R.						2021	9784981-12	HBNI, IGCAR, KALPAKKAM, India; IGCAR, KALPAKKAM, India	American Society of Mechanical Engineers (ASME)
25	Shukla P.K., Rao E.H., Mahalingeshwari M., Verivendan E., Palaki S.R., Das S.K., Ningden S., Chennaisa P.K., Ponnaji D., Adhalingam S., Venkatarman B.						2021	9784981-12	IGCAR, Kalpakkam, India	American Society of Mechanical Engineers (ASME)
26	Sekar S., Chandra S., Suresh A.S., Ramamohan N., Sandarajan K., Sarath A., Sivaraman N.			Elucidating the extraction behaviour of tri-n-alkyl phosphates and tri-n-butylmethyl phosphite with mixture of amoxy and tetra-n-butyl metal ions from infrared spectroscopy and dynamic light scattering studies. A distinct correlation from conformational changes and variation in size of aggregate.			2021	222860	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India	Elsevier B.V.
27	Ahijani S., Amaladas E.P., Saravanan K., Dasil C., Anirudhadasan S., Sargana K.M., Mani A.			Quantum coherence modulation in bismuth selenide topological insulator thin film by ion irradiation			2021	9258308	Condensed Matter Physics Division, Materials Science Group, IGCAR, Kalpakkam, 603102, India; Materials Physics Division, Materials Science Group, IGCAR, Kalpakkam, 603102, India; Homi Bhabha National Institute, Kalpakkam, 603102, India; IGCAR/DAE, CSIR, Kalpakkam Node, Kalahandi, 603104, India	Elsevier Ltd
28	Ajay S., Anis R., Saminthy K., Dasgupta A., Sen S.			Tunable ultraviolet sensing performance of Al-modified ZnO nanoparticles			2021	9258308	Discipline of Metallurgy Engineering and Materials Science, Indian Institute of Technology Indore, Indore, 453552, India; Discipline of Physics, Indian Institute of Technology Indore, Indore, 453552, India; Physical Metallurgy Division, Indira Gandhi Centre for Atomic Research and HBNI, Kalpakkam, 603102, India	Elsevier Ltd
29	Balashankaran S., Pandey N.K., Shekhar K., Subba Rao R.V.			Thermodynamic Modeling of Nitric Acid Speciation Using eNQUAC Active Coefficient Model			2021	999782	Reprocessing Group, IGCAR, Kalpakkam, India; Homi Bhabha National Institute, IGCAR Campus, Kalpakkam, India	Springer
30	Sreenivasulu B., Suresh A., Rao C.V.S.B., Sivaraman N.			Mixed-oxetone runs with tri-n-iso-amyl phosphate and tri-n-butyl phosphate for the aqueous reprocessing of UO ₂ -Zr alloy fuels			2021	2365731	Fuel Chemistry Division, Materials Chemistry and Metal Fuel Cycle Group (MFC&MFCU), Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, 603102, India; Homi Bhabha National Institute, Kalpakkam, 603102, India	Springer Science and Business Media B.V.

31	Panigrahi S, Mohanty A.K., Samantaray M.K., Saha G, Choudhuran S., Subramanian V., Srinivas C.V.	Distribution, annual committed effective dose, and health safety assessment of ²¹⁰ Pb in marine biota from Kalkajam coast, Bay of Bengal	2021	002520X	Environmental Assessment Section, EAD/RESQS/RMG, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603 102, India; Aeronautical Transport and Biotechnology Section, RESD/RESISQ/RMG, India Gandhi Centre for Atomic Research, Kalpakkam, India; Home Bhambha National Institute, Anushakti Nagar, Mumbai, India	Elsevier Ltd
32	Nemababu J., Sanath G., Nagaha A.	Twin boundary reversibility characteristics in In-Fe	2021	21524928	Home Bhambha National Institute, Mumbai, Maharashtra 400094, India; Materials Development and Technology Division, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
33	Chintha P.C., Jayaraman V.	Elucidation of chlorine sensing mechanism of AgI	2021	9244247	Materials Chemistry Division, Materials Chemistry and Metal Fuel Cycle Chemistry Group, IGCAR, Kalpakkam, Tamil Nadu, India; HBNI, Kalpakkam, Tamil Nadu, India	Elsevier B.V.
34	Parthasarathy S., Kumar V.G., Subbarao R.V.	Development of a remote dosimetry system and a remote titration method for analysis of fast reactor fuel reprocessing plant samples inside a hot cell	2021	2365771	PARC/D, Reprocessing Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Department of Chemistry, Sathyabama Institute of Science and Technology, Chennai, 600119, India; Centre for Ocean Research, Sathyabama Institute of Science and Technology, Chennai, 600119, India; Home Bhambha National Institute, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer Science and Business Media B.V.
35	Mourat A., Bhogra A., Meena R., Sindhu M., Hama D., Ananthapadmanab S., Devi D., Som T., Nair A., Kandasamy A.	Structural and electrical transport properties of Ge implanted C60 thin films and their conduction mechanisms	2021	9974522	Intra-University Accelerator Centre, Anna Araf Ali Marg, New Delhi, 110007, India; Department of Physics, Anna Maria College, New Delhi, 110025, India; Materials Physics Division, India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, Kalpakkam, 603102, India; Institute of Physics, Bhubaneswar, 751005, India; Department of Physics & Centre for Interdisciplinary Research, University of Petroleum and Energy Studies (UPES) Dehradun, Uttarakhand, 248007, India	Springer
36	Anesh P., Venkatesan K.A., Suresh A.S., Gupta D.K., Ravindran T.R.	Adsorption of uranium by diethylenetriamine functionalized magnetic mesoporous silica	2021	32151532	Reprocessing Research and Development Group, India Gandhi Centre for Atomic Research, Kalpakkam 603 102, India; Home Bhambha National Institute, Anushakti Nagar, Mumbai, Maharashtra 400094, India; Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Materials Science Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India	Elsevier B.V.
37	Bhambhani I., Ananthu Vijayan V.J., Bhatti R., Scharab M., Ganesamoorthy S., Karan A.K.	Crystal Interface Control at Low Thermal Gradient and Investigation of the Effect of Cr on the Crystal Structure and Optical Properties of Biomimetic Silicate	2021	3701972	Crystal Growth and Instrumentation Section, Laser and Functional Materials Division, Raja Ramanna Centre for Advanced Technology, Indore, 452013, India; Home Bhambha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; Department of Optoelectronics, University of Kerala, Kariakulam, Thiruvananthapuram, Kerala 689581, India; Materials Science Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	John Wiley and Sons Inc
38	Sethyacheta T., John R., Dubey A., Devan K.	A comparative study of reactivity feedbacks including in situ motion and their impact on CTOPA in a 60-MW fast reactor	2021	295493	Safety Analysis Section, Reactor Neutronics Division, Reactor Design Group, IGCAR, N, India; Department of Theoretical Physics, University of Madras, Gandhi Campus, Chennai, 600 025, India; HBNI, Kalpakkam Centre, India Gandhi Centre for Atomic Research, N. 603102, India	Elsevier Ltd
39	Ajjan K., Ganesh D., Karthik S., Santha A., Venkatesh M., Ganesamoorthy S., Babakrishnan S., Chandrasekhar A.K.	Investigations on aqueous solution grown L-Arginine Phosphate monohydrate (LAP) single crystals for efficient THz generation	2021	220248	Advanced Centre of Research in High Energy Materials (ACRHEM), University of Hyderabad, Hyderabad, 500046, India; Crystal Research Laboratory, Department of Physics, Bharathidasan Institute of Technology, Anna University, Trichy, 620024, India; Materials Science Group, IGCAR, Kalpakkam, 603 102, India; Home Bhambha National Institute, Mumbai, 400 094, India	Elsevier B.V.
40	Babu M.N., Mukhopadhyay C.K., Sankala G.	High-Temperature Fatigue Crack Growth Study of P91 Steel Using Acoustic Emission	2021	10474838	Metalurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakkam, India; Home Bhambha National Institute, Kalpakkam, Tamil Nadu 603102, India	Springer
41	Jena G., George R.P., Philip J.	Fabrication of a robust graphene oxide-nano SiO ₂ -polydimethylsiloxane composite coating on carbon steel for marine applications	2021	3009440	Metalurgy & Materials Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Home Bhambha National Institute, Mumbai, 400 094, India	Elsevier B.V.
42	Panda P.K., Dasgupta A., Saha S.K.	Comparison of Microstructure and Microstructure Evolution in 9Cr and 18Cr Oxide Dispersion-Strengthened Steels during Fuel Clad Tube Fabrication	2021	10599695	Structural and Analytical Microscopy Section, Physical Metallurgy Division, Metallurgy and Materials Group, India Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, 603102, India; IGCAR, Home Bhambha National Institute, HBNI, Mumbai, India	Springer
43	Ramar Mohapatra D., Zubere A., Safinova A., Philip J.	Recoding nanostructures in magnetic fluids using pH and magnetic stimulus for tuning optical properties	2021	3048853	Smart Materials Section, Corrosion Science and Technology Division, Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, 603102, India; Institute of Natural Sciences and Mathematics, Ural Federal University, 51 Lenin Avenue, Ekaterinburg, 620000, Russian Federation	Elsevier B.V.
44	Hemant Ran E., Shukla P.K., Venkat Reddy G., Murthy S.S., Kumarasani M., Das S.K., Lyda G., Poraja D., Athanagadan S., Venkatesan B.	Generation of simulated corium using thermite process	2021	3064549	India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, India; India Gandhi Centre for Atomic Research, Kalpakkam, India	Elsevier Ltd
45	Kumar A., Nandagopal M., Laha K., Chatterjee A.	Variability in large-sample postbuckling behavior of two small thin-walled structures	2021	2562499	India Gandhi Centre of Atomic Research, Kalpakkam, India; Indian Institute of Technology, Kharagpur, IP, India	Springer
46	Mathan N.D., Potaraju D., Vijayaraj Kumar T.	Kinetics of thermal degradation of amine-cured flame-retardant epoxy phosphates	2021	2504707	Department of Chemistry, Nadar Saraswathi College of Engineering and Technology, Thani, 625511, India; Safety Engineering Division, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Department of Polymer Technology, Kannur College of Engineering and Technology, K. Vellakulam, 625701, India	Springer
47	Gundam S.K., Gaha P., Sridharavel B., Bhatta U.M.	XTM study of low-energy ion-beam synthesized Ge nanoclusters inside SiO ₂ matrix	2021	2504707	Centre for Innovation, Innovation, Research and Consultancy, Jyothy Institute of Technology, Vijayawada, Technological University, Bengaluru, 560006, India; Institute of Physics, Sachdevana Nagar, Bhubaneswar, 751005, India; Home Bhambha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400085, India; RIAM, College of Engineering, Sree National University, 1, Gwalior-Ro, Gwalior-Ga, Social, 09252, South Korea; Materials Science Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer
48	Jale S., Dash M.K., Wasak N.P., Dasid C., Karakuram M.	Effect of annealing and irradiation on the evolution of texture and grain boundary interface in electrodeposited nanocrystalline nickel of varying grain sizes	2021	2578972	Materials Science Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; HBNI, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; School of Metallurgy and Materials, University of Birmingham, B15 2TT, United Kingdom; International Advanced Research Centre for Powder Metallurgy and New Materials, ARCI, Hyderabad, 500 095, India	Elsevier B.V.
49	Shafiq Anisul L., Jena H., Parida S.K.	Studies on Ni solubility in Ca ₁₀ (PO ₄) ₆ (OH) ₂ and its borosilicate glass bonded analogues synthesized by using CaF ₂ recovered from spent salt of electro-winning process	2021	2728842	Home Bhambha National Institute (HBNI) IGCAR Campus, Kalpakkam, India; Materials Chemistry Division, Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
50	Nalawalkar R.K., Nityanjan P.K., R. U. K. S.	Surface modified and functionalized graphene oxide membranes for separation of strontium from aqueous solutions	2021	3014797	Home Bhambha National Institute, Kalpakkam 603102, India; Materials Chemistry & Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam 603102, India	Academic Press
51	Nath D., Deshpande U.P., Chandra Shekar N.V., Chakravarty S.	Residual oxygen driven defect mediated room temperature magnetism in dilute nitrogen incorporated amorphous Al-Ni-Co thin film	2021	3048853	UGC-DAE Consortium for Scientific Research, Kalpakkam Node, Kalakkulam, 603104, India; UGC-DAE Consortium for Scientific Research, Khadiwala Road, Indore, 452001, India; Material Science Group, IGCAR, Kalpakkam, 603102, India; University of Madras, Chennai, Tamil Nadu 600005, India	Elsevier B.V.
52	Kurian J., Lahiri B.B., Mathew M.J., Philip J.	High magnetic field hyperthermia efficiency in copper ferrite nanoparticles prepared by solvothermal and hydrothermal methods	2021	3048853	Bishop Abraham Memorial College, Thiruvithirai, Madhavully, Kerala, PIN 686997, India; Smart Materials Section, Corrosion Science and Technology Division, Materials Characterization Group, Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, Tamil Nadu PIN 603102, India; St. Berchmans College, Changanassery, Kerala, PIN 686101, India	Elsevier B.V.
53	Kumar V., Gajju V., Gunasekar K.I., Dooker S., Indira S., Ehrenberg H., Rilling B., Manjappa C.R.	Hybrid aqueous supercapacitors based on mesoporous spinel-analogous Zn ₃ Sn ₂ Co ₂ O ₈ nanowires: Effect of Ni ²⁺ content on the structure and energy storage	2021	9258388	Department of Physics, National Institute of Technology, Kavarattur, 186119, India; School of Materials Science and Nanotechnology, National Institute of Technology, Kavarattur, Haryana 136119, India; Chemistry Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Institute for Applied Materials (IAM), Karlsruhe Institute of Technology (KIT), Hermann-von-Helmholtz-Platz 1, Eggenstein-Leopoldsdafen, 76344, Germany; Department of Chemistry, University of Marburg, Hans-Meerwein-Strasse, Marburg, D-35032, Germany	Elsevier Ltd

54	Vasudhan P., Padhi R.K., Panda S., Ramkrishna P., Panigrahi B.S.	Influence of interstitial UO ₂ -doping on the valence control of Fe and energy transfer to substitutional Fe ³⁺ and Fe ²⁺ in SrFePO ₄	2021	14779226	Homi Bhabha National Institute, Tamil Nadu, Kalpakam, 603102, India; Material Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakam, 603102, India; Safety Research Institute, AERB, Tamil Nadu, Kalpakam, 603102, India; Safety Quality and Resource Management Group, India Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakam, 603102, India	Royal Society of Chemistry
55	Mishra D.K., Gopakumar G., Pugazhendhi G., Siva Brahmananda Rao C.V., Nagarajan S., Banerjee T.	Molecular and Spectroscopic Insights into a Metal Sub-Band Deep Eutectic Solvent: A Combined Quantum Theory of Atoms in Molecules, Noncovalent Interaction, and Density Functional Theory Study	2021	10895839	Department of Chemical Engineering, Indian Institute of Technology, Assam, Gauhati, 781039, India; Fuel Chemistry Division, Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakam, 603102, India	American Chemical Society
56	Kumar S., Venkatesan V., Bhaskar R., Kumar S.K.A., Srwanamurthi A., Vijayakrishna K., Brahmananda Rao C.V.S., Srivastava N., Satoh S.K.	Rapid detection strategies for the ultra-level chemosensing of uranyl ions	2021	14779226	Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology, Tamil Nadu, Vellore, 622014, India; Department of Chemistry, Sreevetha School of Engineering, Sreevetha Institute of Medical and Technical Sciences, (SMTATS), Tamil Nadu, Chennai, 602105, India; School of Basic Sciences, Indian Institute of Technology Bhubaneswar, Odisha, Bhubaneswar, 752050, India; India Gandhi Centre for Atomic Research, HBNI, Tamil Nadu, Kalpakam, 603102, India; Department of Applied Chemistry, S.V. National Institute of Technology, Gujarat, Surat, 395007, India	Royal Society of Chemistry
57	Rahof P.B., Kumar K.S.A., Athwalie A.A., Gopakumar G., Rao C.V.S.B., Panley A.K.	Understanding water mediated proton migration in conversion of Fe-bond in olefinic carbon atoms into CFe-N bond to form Fe-amino adducts	2021	404020	Department of Chemistry, Savitribai Phule Pune University, Pune, 411007, India; Radiochemistry Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Bio-Organic Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Fuel Chemistry Division, India Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Homi Bhabha National Institute, Amshakhingir, Mumbai, 400094, India	Elsevier Ltd
58	Mohan S., George A., Vijay R., David C., Anandura G.	Interfacial strain relief by periodic dislocation doublets arising from rotationally related orientation relationships of YAG:CeO ₂ dispersions in ferrite matrix	2021	9215093	Material Science Group, India Gandhi Centre for Atomic Research, Kalpakam, India; Homi Bhabha National Institute, Mumbai, India; Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakam, India; International Advanced Research Centre for Powder Metallurgy and New Materials, Hyderabad, India	Elsevier Ltd
59	Pavan A.R., Chandrasekar N., Aravahagan B., Kumar S., Vandevan M.	Study of arc characteristics using varying shielding gas and optimization of arc-welding technique for thick AISI 316L(N) plates	2021	17555817	Materials Development and Technology Division, Metallurgy and Materials Group, India Radiochemistry and Environmental Safety Division, India Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Homi Bhabha National Institute, Mumbai, 400 094, India	Elsevier Ltd
60	Tom S., P.M.R., S. R.	Numerical simulation of single-phase heat transfer and nucleate boiling of liquid sodium in narrow annulus channel similar to that of SFR fuel subchannel	2021	295493	Homi Bhabha National Institute, IGCAR, Kalpakam, Tamil Nadu, India; Reactor Design & Technology Group, India Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu, India	Elsevier Ltd
61	Sreelekshmi N., Amirthapandian S., Umashy G.K., David C., Srivastava S.K., Qjia S., Panigrahi B.K.	Raman scattering investigations on disorder and recovery induced by low and high energy ion irradiation on 3C-SiC	2021	9215107	Material Physics Division, Materials Science Group, India Gandhi Centre for Atomic Research, HBNI, Kalpakam, Kalpakam, 603 102, India; Inter-University Accelerator Centre (IUAC), Aruna Asaf Ali Marg, New Vasant Kunj, New Delhi, 110067, India	Elsevier Ltd
62	Albert S.K., Suresh Kumar R., Kumar H., Nanda Kumar R., Toppe A., Ponguzhali A., Elango M., Babu A.	Root cause analysis of the failure of the steam generator off-site assembly of a test reactor	2021	15306307	Metallurgy & Materials Group, IGCAR, Kalpakam603102, India; Reactor Design & Technology Group, IGCAR, Kalpakam603102, India; Reactor Facilities Group, IGCAR, Kalpakam603102, India	Elsevier Ltd
63	Sivakumar M., Saha S.K., Dasgupta A., Shukh S.M.	Structure and Texture of Oxide Dispersion Strengthened Alloy 617 for Very High Temperature Applications	2021	10735623	India Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakam, 603 102, India; Indian Institute of Technology Madras, Chennai, 600 036, India	Springer
64	Dhawa A., Rout A., Jawahar N.R., Venkatesan K.A.	A systematic approach for achieving the maximum loading of Eu(III) in TODGA-n-dodecane phase with the aid of TBP phase modifier	2021	1077322	Integrated Nuclear Recycle Plant, Nuclear Recycle Board, Bhabha Atomic Research Centre Facilities, Kalpakam, 603 102, India; Homi Bhabha National Institute, Training School Complex, Amshakhingir, Mumbai, 400 094, India; Fuel Chemistry Division, Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakam, 603 102, India; Reprocessing Research and Development Division, Reprocessing Group, India Gandhi Centre for Atomic Research, Kalpakam, 603 102, India	Elsevier B.V.
65	Ramiah M.R., Prabakar K.	Effect of bimaterial microstructure physical dimensions on photoresist curing characteristics	2021	9244247	Surface and Nanoscience Division, Materials Science Group, India Gandhi Centre for Atomic Research, Department of Atomic Energy, Kalpakam, Tamil Nadu, 603102, India; Homi Bhabha National Institute, IGCAR, Kalpakam, Tamil Nadu, 603102, India	Elsevier B.V.
66	Singh K., Robertson C., Bhaduri A.K.	Irradiation in BCC materials: Defect-induced changes of the effective dislocation mobility and their relation with the dose-dependent fracture response	2021	1491970	Homi Bhabha National Institute, IGCAR, Kalpakam, 603102, India; DEN Service de Recherches Metallurgiques Appliquees, CEA, Universite Paris-Saclay, Gif-sur-Yvette91191, France	Elsevier Ltd
67	Prathibha T., Suresh A.S., Chandu S., Sriram S., Ramnarayan N.	Selective removal of Zr(IV) from simulated High-Level liquid waste of metallic fuel reprocessing using hydroxyacetic Extractor: Insights from solvent extraction and density functional theory computations	2021	2735387	Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu, 603 102, India; Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu, 603 102, India	Elsevier Ltd
68	Harithash Y.V., Rao C.J., Nagesh S., Mohan T.Y.K., Rangarajan S., Albert S.K.	Corrosion Behaviour of Plasma-Sprayed Nickel Coating on Type 316L Stainless Steel in High-Temperature Molten FLiNaK Salt	2021	9722815	Water and Steam Chemistry Division, Bhabha Atomic Research Centre, Kalpakam, 603102, India; Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Homi Bhabha National Institute, Amshakhingir, Mumbai, 400094, India	Springer
69	Padhi R., Panda S., Panigrahy S., Padhi R.K., Srivastava M.B., Jena H., Panigrahi B.S.	Structural and spectroscopic investigations of neodymium-doped zirconium borophosphate glass	2021	15237235	Homi Bhabha National Institute, Mumbai, India; Safety Research Institute, Atomic Energy Regulatory Board, India; Material Chemistry and Metal Fuel Cycle Group, India, Safety Quality & Resource Management Group, India Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu, India	John Wiley and Sons Ltd
70	Kumar S., Menaka M., Venkatesan B.	Performance comparison of phased array transducers for inspection of dissimilar welds on nuclear reactor components	2021	3964549	Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Radiological & Environmental Safety Division, India Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Homi Bhabha National Institute, Safety, Quality & Resource Management Group, India Gandhi Centre for Atomic Research, Kalpakam, 603102, India	Elsevier Ltd
71	Harithash Y.V., Prasad Reddy G.V., Krishna Mohan T.V., Rangarajan S., Albert S.K.	Tensile Behavior of Incoel-800HT Exposed to High-Temperature Molten FLiNaK Salt and Thermal Aging	2021	10399495	Water and Steam Chemistry Division, Bhabha Atomic Research Centre, Kalpakam, 603102, India; Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Homi Bhabha National Institute, Amshakhingir, Mumbai, 400094, India	Springer
72	Gopiika M.S., Lahiri B.B., Aji B., Philip J., Sivitha Pillai S.	Magnetic hyperthermia studies in magnetite ferrofluids based on bio-friendly oils extracted from Calophyllum inophyllum, Brassica juncea, Ricinus communis and Madhaca longifolia	2021	2048853	Department of Physics, University of Kerala, Kottayam, Thiruvananthapuram, Kerala 685821, India; Smart Materials Section, Corrosion Science and Technology Division, Materials Characterization Group, Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, HBNI, Kalpakam, Tamil Nadu, 603102, India	Elsevier B.V.
73	Papulani R., Mad D., Balaji V., Chandramohan P., Anantharaman S., Ganesan R., Krishna Mohan T.V.	Phase transformations in radiolytically formed manganese nano-oxide	2021	0909806X	Water and Steam Chemistry Division, BARC Facilities, Kalpakam, 603102, India; Materials Physics Division, India Gandhi Centre for Atomic Research, Kalpakam603102, India; Materials Chemistry Division, India Gandhi Centre for Atomic Research, Kalpakam603102, India; Homi Bhabha National Institute, Mumbai, 400 094, India	Elsevier Ltd
74	Ramkrishna P., Sitakanta Panda, Vinod Kumar P., Mohapatra D.K., Jena H., Panigrahi B.S.	Structural and optical properties of Co-doped titanium borophosphate glasses	2021	9731458	Homi Bhabha National Institute, Mumbai, India; Safety Research Institute, Atomic Energy Regulatory Board, Mumbai, India; Material Chemistry and Metal Fuel Cycle Group, Chennai, India; Safety Quality & Resource Management Group, India Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu, 603102, India	Springer
75	Mishra K.K., Saha B.K., Boina V., Das A., Kataray R.S., Ravindran T.R.	Raman Fingerprint of Pressure-Induced Phase Transition in SnO ₂ Nanoparticles: Gravitational Parameter and Thermal Expansion	2021	19327447	Department of Physics and Institute for Functional Nanomaterials, University of Puerto Rico, San Juan, PR, 00946-8777, United States; HBNI, Materials Science Group, India Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Surface Engineering Division, CSIR-National Aerospace Laboratories, Bangalore, 560017, India	American Chemical Society
76	Prathibha T., Rama Swami K., Suresh A.S., Robert Selvar B., Sriram S., Venkatesan K.A.	Extraction and aggregation behaviour of Zr(IV) in glycolamide solvents during the treatment of high-level liquid waste solution arising from metallic fuel reprocessing	2021	1077322	Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakam, 603 102, India; Homi Bhabha National Institute, Amshakhingir, Mumbai, 400094, India	Elsevier B.V.

77	Rehna P.R., Parthasarathy A., Saha S.K., Dasgupta A., Karupiah G., Prasad A.K., Dhanu S.	Electronic and Vibrational Decoupling in Chemically Exfoliated Bilayer Thin Two-Dimensional V2O5	2021	19487185	Home Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Materials Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Physical Metallurgy Division, Materials Metallurgy Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India	American Chemical Society
78	Thoma Mouni C., S.M., C.R., Albert S.K., Das C.R., Patil P.K., Sigala A.	Influence of prior deformation temperature on strain induced martensite formation and its effect on the elastic strengthening behaviour of type 304 SS studied by XRD/LFA	2021	9215093	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam-603102, India; Home Bhabha National Institute, Annaiah Nagar, Madhavaram 600094, India; Reactor Design & Technology Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
79	Borthi P.K., Ramnarayan N., Sundararajan K.	Pentaatomic P-Fe-N phosphorus bonding in the heterostructures of POC/CF ₂ heterostructure based on matrix isolation infrared spectroscopy and Ab initio computation	2021	222860	Home Bhabha National Institute, Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
80	Perumabany G., Vivekanandan P., Jagadishan D., Winston S.J., Manjagan S.	Optimization of helical geometry of inspection probe for steam generator tubes of the PFR	2021	11542575	Home Bhabha National Institute (HBNI), Kalpakkam Centre, Tamil Nadu, Mumbai, India; The Reactor Design and Technology Group, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, 603102, India	British Institute of Non-Destructive Testing
81	Anulu S., Rao T.S., B.V., Kumar A.A.A.	Transduction dose-response curve for 137Cs P-rays: Dose validation at various dose rate and changing dose rate conditions	2021	13835718	Home Bhabha National Institute, Annaiah Nagar, Mumbai, India; Water and Steam Chemistry Division, Bhabha Atomic Research Centre (BARC), Kalpakkam, Tamil Nadu, India; Radiological and Environment Safety Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India	Elsevier B.V.
82	Kanalkamkar K., Lakshmanan C., Rajaraman R., Sundararaj B., Amarendra G., Sivaji K.	Positron annihilation studies on Ni ²⁺ implantation induced vacancy type defects and its recovery in Si ₃ N ₄ film	2021	0105853X	Department of Nuclear Physics, University of Madras, Gandhi Campus, Chennai, 600025, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam, 603102, India	Elsevier B.V.
83	Varghese P., Venkandan E., Vaidyanath Krishna R.K., Shakti R.K., Gupta R.K., Hanuman Rao L., Pappala G., Nageshan S.	Molten sodium corrosion of laser surface remelted yttria-stabilized zirconia thermal barrier coatings	2021	0101903X	Corrosion Science and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Physical Metallurgy Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Safety Engineering Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Home Bhabha National Institute, Mumbai, 400 094, India; Raja Ramanna Centre for Advanced Research, Indore, 452 013, India	Elsevier Ltd
84	Shyamkumar S., Prabha E., Ghosh S., Premalatha S., Lakshminandan I., Madhu Anubha T., Sree Rama Murthy A., Redkar P.R., Venkatesh M., Chitra P.C., Ravindranath N.A., Suresh Kumar V., Mahendran K.H., Ghoshkar K.J., Ganesan R., Jayaraman V.	Hydrogen sensors for comprehensive detection of steam leak in sodium-cooled fast reactor	2021	295493	Materials Chemistry and Metal Fuel Cycle Group, Kalpakkam, 603102, India; Home Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
85	Bachchan A., Devan K., Yemmanu K., Alagan M., Nataraj K., Naga Swamy D., Mohankrishnan P.	Simulation of delayed neutron precursor release due to wet rupture in a fuel pin and its detection methodology in PFR	2021	295493	Reactor Design and Technology Group, Indira Gandhi Centre for Atomic Research, Home Bhabha National Institute, Kalpakkam, 603102, India; Consultant, Atomic Energy Regulatory Board, Mumbai, Maharashtra, India	Elsevier Ltd
86	Joshi S., Jadhavani S., Pande M., Anandkumar G., Mathyaran R., Venkata Srinivas C., Venkatesan R., Venkatesan B.	A systematic quartz extraction method for retrospective dosimetry and dating	2021	0102625X	Safety, Quality & Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Home Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Inc.
87	Sathyamurthy A.T., Vinod K., Mani A.	Investigation on Magnetic and Magnetocaloric Properties of Dy ₂ Se ₂	2021	15571939	Condensed Matter Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India; Home Bhabha National Institute (HBNI), Kalpakkam, Tamil Nadu, 603102, India	Springer
88	Dreppitha J., Pichaiiah K.C., Chandrasekar G., Sivaraman N.	Solubility of pyridine-2,6-dicarboxylic acid in supercritical carbon dioxide and its application for removal of lead and nickel in simulated matrices	2021	8908446	Home Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; MRC/MFCG, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Department of Chemical Engineering, Pondicherry Technological University (Formerly known as Pondicherry Engineering College), Puducherry, 605014, India	Elsevier B.V.
89	Tripathi V.V., Manikandan P., Brahmananda Rao C.V.S., Lakshmi Narasimhan T.S.	Thermodynamic properties over 8-8 GPa/Al ₂ O ₃ + GaAl ₃ /rqt; two phase region of GaAl ₃ system: Kohnen diffusion mass spectrometry study	2021	219614	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India; Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India; Home Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India	Academic Press
90	Sain T., Kishan Singh C., Aniladas E.P., Ashwari S., Prabu S., Malhotra T., Mani A.	Evidence of weak-antiferromagnetic phenomenon in Al ₂ induced crystallization grown polycrystalline-SiGe thin film	2021	0107577X	Material Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam, 603102, India	Elsevier B.V.
91	Jadhavani S., Anandkumar G., Jose M.T., Venkatesan B.	Thermoluminescence dosimetric characteristics of carbon-doped boron neoborate phosphor	2021	0909800X	Health Safety and Environmental Group, Home Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India	Elsevier Ltd
92	Ramadas N., Raju S., Kumar S.S., Mekandamurthy C., Sreedhar B.K., Maragan S., Rajagopthy S.	Characterizing the dynamic seals used in absorber rod drive mechanism in Indian PFR	2021	17385733	Indira Gandhi Centre for Atomic Research, Department of Atomic Energy, Kalpakkam, Tamil Nadu, 603102, India	Korean Nuclear Society
93	Kanath S., Indupani P.S., Dhara S., Potty S.N.	Wide Band Gap Al and In Co-doped ZnO Films for Near-Infrared Fluorescence Application	2021	15571955	Centre for Materials for Electronics Technology (C-MET), Scientific Society, Ministry of Electronics & Information Technology, Government of India, Sharanpur Road, Adhan P.O. Thiruvur, 680 581, India; Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, Home Bhabha National Institute, Kalpakkam, 603102, India	Springer
94	M.S., Ananthapandian S., Magudatpally P., Manoj A., Krishna R., Srivastava S.K., Ankan K.	Role of ion irradiation induced defects in thermoelectric transport properties of Bi ₂ Te ₃ thin films	2021	40090	Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam-603102, India; HBNI, Kalpakkam, Kalpakkam, 603102, India; Material Science Division, Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India	Elsevier B.V.
95	Egan G., Sachin A.R., Sreenivasulu B., Gopakumar G., Suresh A., Brahmananda Rao C.V.S., Sivaraman N.	Exploring long-chain hexaalkyl phosphoramidates for acetone extraction: A combined experimental and theoretical investigation	2021	201693	Home Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India; Fuel Chemistry Division, Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India	Elsevier B.V.
96	Sakar A., Dash M.K., Nagda A.	Mechanism of HCP-creep interaction in a type 316LN stainless steel	2021	9215093	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India; Department Maschinenbau Lehrstuhl I/IV Materialkunde und Werkstoffprüfung, Universität Siegen, Germany; Department of Metallurgy and Materials, University of Birmingham, United Kingdom	Elsevier Ltd
97	Satya S., Mahalingam M., Chennu P.K., Managan S.	Design of temperature controlled instrumented irradiation capsule for irradiation experiments in PFR	2021	3064549	Home Bhabha National Institute (HBNI), Kalpakkam Centre, Mumbai, India; Reactor Design & Technology Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; (Formerly with) Reactor Design and Technology Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Elsevier Ltd
98	Jayakumar S., Mani V., Saravanan T., Rajmoukham K., Prabhu A.D., Philip J.	Multifiller nanocomposites containing gadolinium oxide and boron nitride nanoparticles with enhanced X-ray attenuation property	2021	218995	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Faculty of Allied Health Sciences, Chennai Academy of Research and Education, Kelambakkam, India; Department of Radiodiagnosis, Chettinad Hospital and Research Institute, Kelambakkam, India	John Wiley and Sons Inc
99	Rout A., Ramamohan N.	Feasibility of Dissolution of UMo-Zr Alloy in an Acid Saturated Amide Ligand	2021	21939323	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Home Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer Science and Business Media Deutschland GmbH
100	Samaratay D., Ashwini B., Parthasarathy N., Bai A.K., Dasgupta M.A., Paul C.P., Bhabu U., Bindu K.S., Albert S.K., Bhadri A.K.	Assessing the Co-Deformability of a Nickel-Based Superalloy-304L Stainless Steel Formed Manufactured through Laser Additive Manufacturing	2021	10599495	Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Home Bhabha National Institute, Training School Complex, Annaiah Nagar, Mumbai, 400094, India; Raja Ramanna Centre for Advanced Technology, Indore, 452015, India	Springer
101	Madhura B., Venkandan E., Rao C.J., Nageshan S.	Evaluation of oxidation resistant SiC-ZrO ₂ composite interlayer for plasma sprayed Y2O ₃ coating over graphite	2021	0101903X	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Home Bhabha National Institute, Mumbai, 400094, India	Elsevier Ltd
102	Jena G., Sofia S., Anandkumar B., Vanthakumari S.C., George R.P., Philip J.	Graphene oxide poly(vinylpyrrolidone) composite coating on 316L SS with superior antibacterial and anti-biofouling properties	2021	3090440	Corrosion Science and Technology Division, Materials Characterization Group, Metallurgy & Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Home Bhabha National Institute, Mumbai, 400 094, India	Elsevier B.V.
103	Amberc C., Nandu Gopal Krishna D., Philip J.	Efficient Dye Degradation via Catalytic Peroxalite Activation using Iron Oxide-Manganese Oxide Core-Shell Particles Doped with Transition Metal Ions	2021	1677322	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam, Tamil Nadu, 603102, India	Elsevier B.V.

104	Sainath G, Rohith P., Nagesha A.	Role of twin boundary position on the yield strength of Cu nanowires	2021	9270256	Materials Development and Technology Division, Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu 603102, India; Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu 603102, India; Present address: Faculty of Mechanical Engineering, Technion Israel Institute of Technology, Haifa 32000, Haifa, Israel	Elsevier B.V.
105	Chandran S, Subramanian V., H.S., Y.R., P.C., Mathew T., Srinivasan M.P., Krishnamoohan T.V.	Modification of oxide film on Zircaloy-2 by magnesium ions in high temperature aqueous solution	2021	22315	Water and Steam Chemistry Division, Bhabha Atomic Research Centre Facilities, Kalpakkam, Tamilnadu 603102, India; Surface and Nanoscience Division, Material Science Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu 603102, India	Elsevier B.V.
106	Jasuridis S, Anand A.S.V., Suman P., Lone M.Y., Jha P.C., Rao C.V.S.B., Sivarajahkanna A.	Fabrication of Phosphine Oxides by O-Silylated Hydrazide-Supported Hydroxylates	2021	1876900X	Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology (VIT), Vellore, Tamil Nadu 632014, India; Department of Chemistry, GITAM University, Nagaland, Bengaluru, Karnataka, India; School of Chemical Sciences, Central University of Gujarat, Sector-30, Gandhinagar, Gujarat, India; India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, Tamil Nadu 603102, India	Springer Science and Business Media B.V.
107	Rajakrishna K., Thanasakaran A., Yuvraj N., Ajay K.C., Venkatesan B., Jose M.T.	Effect of high Z materials loading in the performance of polystyrene-based thin-film plastic scintillators	2021	1689002	Safety Quality and Resource Management Group, India Gandhi Centre for Atomic Research/Tamil Nadu Kalpakkam-603102, India; Homi Bhabha National Institute, India Gandhi Centre for Atomic Research/Tamil Nadu Kalpakkam-603102, India	Elsevier B.V.
108	John J.C., Shanmugasundaram K., Rameshmoorthy Rao C.V.S., Tapakumar G., Choe Y.	Novel Thiazole-Based Ionic Small Molecules for Nonopical Light-Emitting Electrochemical Cells for Ultrapure Green Emission	2021	1932747	School of Chemical and Biomolecular Engineering, Pusan National University, Busan, 609-735, South Korea; Surface Chemistry and Nano-Science Section, Fuel Chemistry Division, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	American Chemical Society
109	Sumantary S.S., Anes P., Bhagavathi Parambath V., S.R.	Graphene supported Mg ₂ alloy nanocomposite as a novel composite hydrogen storage material: 27 Al Experiments and theoretical insights	2021	13596454	Dept. of Physics, Indian Institute of Technology Madras, Chennai, India; Material Physics Division, India Gandhi Centre for Atomic Research, Kalpakkam, India; Helmholtz Institute Ulm (HMI) for Electrochemical Energy Storage, Helmholtzstr. 11, Ulm, D-89081, Germany	Acta Materialia Inc
110	Nandy M., Lakshmi B.B., Yadavkanna C.H., Philip J.	Poly acrylic acid stabilized magnetic nanomaterials for visual defect detection: Effect of pH on detection sensitivity and colloidal stability	2021	1677322	Smart Materials Section, Corrosion Science and Technology Division, Material Characterization Group, Metallurgy and Materials Group, HBNI, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India; Department of Physics, National Institute of Technology, Trichy, Tamil Nadu 620015, India	Elsevier B.V.
111	Ramakrishna P., Panda S., Vinodkumar P., Padhi R.K., Jena H., Paingrahi B.S.	Structural and optical properties of cerium and dysprosium covalent tetraphosphate glasses for good white light application	2021	223093	Homi Bhabha National Institute, Mumbai, India; Safety Research Institute, Atomic Energy Regulatory Board, Material Chemistry and Metal Fuel Cycle Group, Safety Quality & Resource Management Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu - 603102, India	Elsevier B.V.
112	Thomas B., Venuvardhan Y., Srinivas C.V., Desai H.P., Anand R., Langdon S.	Cloud resolving simulation of extremely heavy rainfall event over Kerala in August 2018: 46 Sensitivity to microphysics and aerosol feedback	2021	1698095	National Atmospheric Research Laboratory, Gadanki, Andhra Pradesh 517112, India; Department of Atmospheric Sciences, Cochin University of Science and Technology, Cochin, 682016, India; India Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, Tamilnadu 603102, India; Physical Sciences and Engineering Division, King Abdullah University of Science and Technology, Saudi Arabia; Department of Earth and Environmental Sciences, Indian Institute of Science Education and Research Mohali, India	Elsevier Ltd
113	Kumar S., Maji S., Sanderarajan K.	Nd(III) hypersensitive peak as an optical absorption probe for determining nitric acid in aqueous solution: An application to aqueous raffinate solutions in nuclear reprocessing	2021	399140	Material Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
114	Mani A.Z., Jayadev U.B., Ramasubhan R.	Molecular dynamics simulation of indentation on uncoated surfaces: A comparison between 3D and 2D plane strain models	2021	8842914	Department of Mechanical Engineering, National Institute of Technology Calicut, Kozhikode, India; Surface and Nanoscience Division, Materials Science Group, India Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, Kalpakkam, India	Springer Nature
115	Neelika Srinani V., Thirupathi S., Sureshvarada B., Kumar S., Maji S., Rameshmoorthy Rao C.V.S., Suresh A., Sivaraman N.	Post synthetically modified BRMFC-5 for efficient recovery and selective sensing of UVI from aqueous medium	2021	20462069	Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India; Material Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Royal Society of Chemistry
116	Maji S., Kumar S., Sanderarajan K.	Investigating laser induced breakdown spectroscopy for estimating uranium by its hydroxide colloids in presence of large excess of Li ₂ CO ₃ -KClO ₄	2021	2366711	Analytical Chemistry and Spectroscopy Division, Material Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer Science and Business Media B.V.
117	Maji S., Kumar S., Sanderarajan K.	A simple spectrophotometric method to estimate uranium: application to nuclear reprocessing solution	2021	2366711	Analytical Chemistry and Spectroscopy Division, Material Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer Science and Business Media B.V.
118	Pruthi R.K.N., Krishna R.H., Nagbh B.V., Prakashbabu D., Paingrahi B.S., Anantharamayyan R.	Investigation of luminescence spectroscopic characteristics in EuCl ₃ -doped ZnO:Bi ₂ O ₃ by Judd-Ofelt parameters	2021	9574222	Department of Physics, M.S. Ramaiah Institute of Technology (Affiliated To Vivekananda Technology University, Bengaluru), Bengaluru, Karnataka 560054, India; Department of Physics, MES College of Arts, Commerce and Science, Bangalore, Karnataka 560053, India; Department of Chemistry, M.S. Ramaiah Institute of Technology, Bangalore, Karnataka 560054, India; Department of Physics, R.V.A. University, Bangalore, Karnataka 560006, India; Radiological Safety Division, India Gandhi Centre for Atomic Research, Kalpakkam 603102, India; Real Time System Division, Electronics and Instrumentation Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer
119	Dhaya M., Day H.C., Das C.R., Vasudevan M., Albert S.K.	Study on hot cracking susceptibility of alloy 617M and an analysis on parameters used for its evaluation	2021	14266125	Materials Development and Technology Division, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
120	Ravindranath N.A., Lakshminidhan L., Lakshmi K.U., Ganasekar K.I., Jayaraman V.	Development of a YF ₃ TbMn membrane for the possibility of determining thorium	2021	221139	Homi Bhabha National Institute, ICAR Campus, Material Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India; Material Chemistry Division, Material Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India; Analytical Chemistry and Spectroscopy Division, Material Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India	Elsevier B.V.
121	Masturam A., Sathu R., Moharajon S., Shaji D., Maheswari R.U., Joseph K., Jayaraman V.	Studies on the uptake behavior of nickel from flowing solution for Mn, Co and Zn	2021	2366711	ICAR, Homi Bhabha National Institute, Kalpakkam, India; Material Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu 603102, India	Springer Science and Business Media B.V.
122	Sekar S., Suresh A., Sivaraman N.	Thin film formation behavior of tri-n-octylbutyl phosphate and tri-n-alkyl phosphates in the extraction of mineral acids and trivalent metal ions	2021	338230	Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	De Gruyter Open Ltd
123	Panda P., Ramasubhan R., Tripathi Sankar S.	Ellipsometric investigation of AlN thin films - Effect of temperature and doping with TiCl ₄	2021	9253467	Surface and Nanoscience Division, Materials Science Group, India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, 603102, India	Elsevier B.V.
124	Preethi T., Sankar K., Anshul S., Balakrishna R., Sundarvel B.	Effect of Hydrothermal Reaction Time on Structural, Optical, and Catalytic Properties of TiO ₂ Nanoparticles	2021	1039733	Advanced Materials Research Laboratory, Department of Physics, Bharati Atomic Institute of Technology, 638 401, Sathyamangalam, TN, India; Department of Food Technology, Bharati Atomic Institute of Technology, 638 401, Sathyamangalam, TN, India; Material Science Group, India Gandhi Centre for Atomic Research, HBNI, 603102, Kalpakkam, TN, India	Springer
125	Sekar R., Vijayand V.D., Acharya A.K., Sharma A.K., Suresh Kumar R., Prasad Reddy G.V.	Experimental Investigation of the Evolution of Fuel Chloride Building Using Real Time X-ray Imaging and Its Microstructural Studies	2021	9722815	Department of Atomic Energy, Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Room No. 249, Kalpakkam, Tamil Nadu 603102, India; India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Springer
126	Raguvendran M., Vasudevan M.	Effect of Laser and Hybrid Laser Welding Processes on the Residual Stresses and Distortions in AISI Type 316(LN) Stainless Steel Weld Joints	2021	10735615	Homi Bhabha National Institute, Mumbai, 4000400, India; Materials Development and Technology Division, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer
127	Padhi R.K., Vinodkumar P., Panda S., Paingrahi B.S.	Deciphering the site occupancy and photoluminescence character of Sm ³⁺ in doped Ca ₂ Mg ₂ SiO ₈ nanocrystals using time-resolved emission spectroscopy	2021	12925258	India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Kalpakkam, 603102, India	Elsevier Masson s.r.l.
128	Nikhil R., Krishna S.A., Sridhara G., Moha A., Albert S.K., Bhadani A.K.	Study on fracture transferability from compact type specimen to pipe for 316LN stainless steel	2021	8980161	India Gandhi Centre for Atomic Research, Kalpakkam, India	Elsevier Ltd

129	Ponnaraj S, Sarkar A, Nagsha A, Nissiah N, Srinivas Rao B.	A re-visit to the Haigh diagram with the effect of creep damage on the high cycle fatigue behavior of alloy 617M	2021	142123	Department of Metallurgical and Materials Engineering, NIT Warangal, Telangana 506 004, India; Materials Development and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603 102, India; Department Maschinenbau Lehrstuhl für Materialkunde und Werkstoffprüfung, Universität Siegen, Germany	Elsevier Ltd
130	Veerababu J, Goyal S, Nagsha A.	Studies on creep-fatigue interaction behavior of Grade 92 steel and its weld joints	2021	142123	Materials Development and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Mumbai, Maharashtra 400 094, India; Nuclear Fuel Complex, Kota, Rajasthan 323 303, India	Elsevier Ltd
131	Suresh Kumar T, Nagsha A, Mariappan K, Ramu Dash M.	Densification and failure behaviour of 316 LN austenitic stainless steel weld joint under thermo-mechanical low cycle fatigue in air-welded and thermally aged conditions	2021	142123	Homi Bhabha National Institute, Mumbai, Maharashtra 400094, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Elsevier Ltd
132	Christopher J, Nandagopal M, Palani D.P.R., Reddy G.V.P., Albert S.K.	Saturation stress based models and their applicability to tensile flow behaviour of superalloy 617M	2021	2080161	Materials Engineering Group, Metallurgy & Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India; Homi Bhabha National Institute (HBNI), Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India	Elsevier Ltd
133	Patilgiri P.K., Velosnyy K.	Thermal-hydraulic analysis of FADDS design for severe accident mitigation strategy in a medium size sodium-cooled fast reactor	2021	295493	Nuclear Systems Analysis Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, 603102, India	Elsevier Ltd
134	Sharma P., Nashine B.K., Mani A.	Performance evaluation of a continuous and a discontinuous magnetic circuit annular linear induction pump	2021	3064549	Homi Bhabha National Institute, Kalpakkam, 603102, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
135	Sahu B.K., Jaine R.N., Sahoo M., Kumar R., Das A.	Interface of GO with SnO ₂ quantum dots as an efficient visible-light photocatalyst	2021	456535	Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, 603102, India; Health Physics Unit, Nuclear Reactor Board, Bhabha Atomic Research Centre Facilities, HBNI, Kalpakkam, 603102, India; Atomic & Molecular Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	Elsevier Ltd
136	Nanda Gopala Krishna D., George R.P., Philip J.	Role of Oxygen Vacancy Formation Energy and Ionizing Behavior in Darkening of White Atmosphere TiO ₂	2021	19327447	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, HBNI, Tamil Nadu, Kalpakkam, 603102, India	American Chemical Society
137	John J.C., Shammugandaram S., Brahmananda Rao C.V.S., Gopikumar G., Choe Y.	Fair-based ionic small molecules for green-emitting ion-doped LECs with improved color purity	2021	11440046	School of Chemical and Biomolecular Engineering, Pusan National University, Busan 409-715, South Korea; Solution Chemistry & Mass Spectrometry Section, Fuel Chemistry Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Royal Society of Chemistry
138	Vanihakumari S.C., Anbar Kumar C., Thimothan C., Ram Kishor G., George R.P., Kasi R., Bindu K.S., John P.	Laser patterned titanium surfaces with superior antibiofouling, superhydrophobicity, self-cleaning and durability: Role of the ion spacing	2021	2578972	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Laser Technology Division, Raja Ramanna Centre for Advanced Technology, P.O. CAT, Indore, 492013, India; Laser Materials Processing Division, Raja Ramanna Centre for Advanced Technology, P.O. CAT, Indore, 492013, India	Elsevier B.V.
139	Rajini P., Gopikumar G., Nagarajan S., Brahmananda Rao C.V.S.	Does the basicity of phosphoryl oxygen change with alkyl chain length in phosphate ligands?	2021	92614	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Fuel Chemistry Division, Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
140	Mishra S., Desigan N., Venkatesan K.A., Ananthavani K.	Hydrolytic degradation of 61-iso-amyl phosphatidylcholine system	2021	1677322	Reprocessing Research and Development Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
141	Aneesh P., Venkatesan K.A., Suresh A.S., Madhavi U.	Tuning the ion exchange behavior of cesium and strontium on sodium iron titanate	2021	13835866	Fuel Chemistry Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Anaparthi Nagar, Mumbai, Maharashtra 400094, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India	Elsevier B.V.
142	Ananth B., Shankar G., Davinc M.A., Sumanary D., Bora H.T., Sena S.	The effect of crystallographic orientation and interfaces on thermo-mechanical softening of a martensitic steel	2021	8842914	Metal Forming and Tribology Section, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Department of Materials Engineering, Indian Institute of Science, Bangalore, 560012, India; Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India	Springer Nature
143	Ganesan K., Ravi R., Mathew T., Dhan S.	Direct microscopic evidence of shear induced graphitization of ultrananocrystalline diamond films	2021	26670669	Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
144	Gayathri V., Kumar T.G., Amudasa E.P., Sathyanarayana A.T., Mani A.	Studies on Colossal Magnetoresistance Behaviour of Pr _{0.60} Gd _{0.40} MnO ₃ /Pb _{0.5} Ca _{0.5} MnO ₃ Heterostructure Films	2021	15571939	Condensed Matter Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Springer
145	Nagayee V., Becerra V., Busch N., Deng J., Shajith S.R., Anil A.J.	L-Adaptive Robot Control Design for a Pressurized Water-Type Nuclear Power Plant	2021	189499	School of Energy and Electronic Engineering, University of Portsmouth, Portsmouth, United Kingdom; School of Built Environment, Engineering and Computing, Leeds Beckett University, Leeds, United Kingdom; Reactor Control System Design Section, Bhabha Atomic Research Centre, Mumbai, India; Probabilistic Safety, Reactor Shielding and Nuclear Data Section, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Institute of Electrical and Electronics Engineers Inc.
146	Nanthia J., Maiti U.K., Subramanian G.G.S., Munshi V. P., Joseph M., Sivaraman N.	Resolving isobaric interference towards the determination of ¹³⁷ Cs and ¹³⁸ M by laser-ionization mass spectrometry	2021	2679477	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Raja Ramanna Fellow, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Royal Society of Chemistry
147	Aneesh P., Venkatesan K.A., Suresh A.S., Gupta D.K., Ravindran T.R.	Chelate/sterilant functionalized silica gel for adsorption of uranium from aqueous solution and seawater	2021	2366711	Reprocessing Research and Development Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Anaparthi Nagar, Mumbai, Maharashtra 400094, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India	Springer Science and Business Media B.V.
148	Patil S.K., Jena H.	Simultaneous Separation of Pd, Rh, and Ru from Simulated Refractory Slag Tin in the Solvent Metal prior to Final Verification into Borosilicate Glass: An Attempt to Recover Wealth from Waste	2021	21535493	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam; Homi Bhabha National Institute, IGCAR Campus, Kalpakkam, 603102, India; Head, Materials Processing Chemistry Section, Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, IGCAR Campus, Mumbai, Kalpakkam, 603102, India	American Society of Civil Engineers (ASCE)
149	Selvakumar R.S., Sahu G., Mohanty A.K., Arumuchalam K.D., Venkatesan R.	First report of Protoperidinium stercorale (Dinophyceae) blooms from the coastal marine ecosystem 26° - an observation from tropical Indian waters	2021	783234	Center for Environmental Nuclear Research, SRM Institute of Science and Technology, Kattankulathur, Chennai, India; Radiological and Environmental Safety Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Elsevier Sp. z o.o.
150	Menakshi C., Venkatchalam P., Chandrasekaran S., Venkatesan B.	Construction of dose response curve for 6 MV LINAC X-rays using Protonium Chromosome Condensation assay for radiation dosimetry	2021	9698063	Human Genetics Department, Sri Ramachandra Institute of Higher Education and Research, Chennai, Tamilnadu, India; Health, Safety and Environmental Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu, India	Elsevier Ltd
151	Anirudh Kumar P., Kumar A., Kumar K., Singh P., Anandha Babu G., Vijayaraj P., Ganesamoorthy S., Ramesh P., Pandey D.	Growth and characterization of Dy _{1-x} Y _x MgF ₃ single crystals by optical floating zone technique: A combined X-ray diffractor and DC magnetization study	2021	220248	Department of Physics, Sri Sivasubramanya Nadar College of Engineering, Kalavakkam, 603110, India; School of Materials Science and Technology, Indian Institute of Technology (Banaru Hindu University), Varanasi, 221005, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Mumbai, 400 094, India	Elsevier B.V.
152	Bhalamurugan J., Kumar V.G., Chandrasekaran S., Balasundar S., Venkatesan B., Padmapriya R., Raja V.K.B.	Recycling of steel slag aggregates for the development of high density concrete: Alternative & environment-friendly radiation shielding composite	2021	11598368	Nanoscience and Materials Chemistry Division, Centre for Ocean Research (DST-FIST), Sathyabama Institute of Science and Technology, Chennai, 600119, India; Department of Chemistry, Sathyabama Institute of Science and Technology, Chennai, 600119, India; HBNI, Health Safety and Environment Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Department of Civil Engineering Sathyabama Institute of Science and Technology, Chennai, 600119, India; Department of Automobile Engineering, Sathyabama Institute of Science and Technology, Chennai, 600119, India	Elsevier Ltd

153	Praerna N. Jena H., Kumar R., Jha S.N., Bhattacharya D., Meena S.S.	Studies on the uranium speciation in zinc iron phosphate (ZIF) gels using Mössbauer and EXAFS spectroscopic investigations	2021	2728842	Homi Bhabha National Institute (HBNI), Anushaktinagar, Mumbai, 400 095, India; Materials Chemistry Division, Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Bhabha Atomic Research Centre Facilities, Kalpakkam, 603102, India; Atomic & Molecular Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India	Elsevier Ltd
154	Bave R.A., Panghali B.S., Sanyamrthy N., Venkaraman B.	Luminescence properties of CaSO ₃ : Ce ³⁺ : A preliminary study	2021	9214526	Radiological and Environmental Safety Division, IGCAR, Kalpakkam, India; Safety Quality and Resource Management Group, IGCAR, Kalpakkam, India; Health Physics Unit, Prototype Fast Breeder Reactor, BHAVINI, Kalpakkam, India	Elsevier B.V.
155	Dixit D., Ramachandran B., Chitra M., Madhuri K.V., Mangunm G.	Photoluminescence response of the PLD-grown nanostructured ZnO thin film	2021	1694332	Vignar's Foundation for Science, Technology & Research University, Vadakkuzhi, Coimbatore, Andhra Pradesh, 522 213, India; Department of Physics, V.S.R. Engineering College, Kante, Tamil Nadu 629 111, India; Department of Physics, Indian Institute of Technology Madras-Tamil Nadu 600034, India; Department of Physics, Sri Ramakrishna Engineering College, Coimbatore, Tamil Nadu 641022, India; Materials Science Group, IGCAR, HBNI, Kalpakkam, Tamil Nadu 603102, India	Elsevier B.V.
156	Shukla D.K., Aral A.J.	An efficient Dijkstra's algorithm based route of a Petri net solving model: An application to shadow extraction system reliability	2021	3064549	Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, Tamil Nadu 603102, India	Elsevier Ltd
157	Periyasamy S., Prakashan A., Menaka M., Venkaraman B., Jayasree M.	Thermal Grading Scale for Classification of Breast Thermograms	2021	1530437X	Department of Medical Physics, Anna University, Chennai, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Quality Assurance Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Department of Atomic Energy (DAE) Hospital, Kalpakkam, India	Institute of Electrical and Electronics Engineers Inc.
158	Rejesh R., Bhattacharya A., Haldar C., Mitra R., Chakrabarti D., Das C.R., Abhin S.K., Bhaduri A.K.	Relative effect of B and N concentrations on the microstructural stability and mechanical properties of modified 9Cr-1Mo steel	2021	9258388	Indian Institute of Technology (I.I.T.) Kharagpur, Kharagpur, West Bengal 721302, India; Metals (Durga Nigam Limited), Metals (Durga Nigam Limited), P. O. Kanchanbagh, Hyderabad, Telangana 500028, India; Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, TN 603102, India	Elsevier Ltd
159	Mahapatra D.K., Camp P.J., Philip J.	Influence of size polydispersity on magnetic field tunable structures in magnetic nanofibers containing superparamagnetic nanoparticles	2021	25160230	Smart Materials Section, Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam, 603102, India; School of Chemistry, University of Edinburgh, David Brewster Road, Edinburgh EH9 1JZ, United Kingdom; Department of Theoretical and Mathematical Physics, Institute of Natural Sciences and Mathematics, Ural Federal University, 23 Lenin Avenue, Ekaterinburg, 620000, Russian Federation	Royal Society of Chemistry
160	Swaraj S., Mahalingam M., Chandra P.K., Maragan S.	Design of non-instrumented irradiation capsule for neutron irradiation in RTPE at different higher temperatures	2021	3064549	Homi Bhabha National Institute (HBNI), Kalpakkam Centre, Mumbai, India; Reactor Design and Technology Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Formerly with Reactor Design and Technology Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Elsevier Ltd
161	Keerthana S., Rajapriya A., Anirudhan S., Vignarathin C., Poopandian N.	WSZ hierarchical nanofibers on dED with enhanced electrochemical performance for sensitive and selective detection of mesalazine in real sample analysis	2021	9277757	Department of Nanoscience and Technology, Bharathiar University, Coimbatore, 641046, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI-Kalpakkam, Kalpakkam, 603102, India	Elsevier B.V.
162	Mohanty A.K., Srihasthina R.S., Saha G., Satyaprakash R., Venkatesh Kumar R., Venkatesan R.	Spatial and seasonal variations in coastal water characteristics at Kalpakkam, western Bay of Bengal, Southeast India: a multivariate statistical approach	2021	1676369	Radiological and Environmental Safety Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Centre for Environmental Nuclear Research, SRM Institute of Science and Technology, Kattankulathur, Chennai 601203, India	Springer Science and Business Media Deutschland GmbH
163	Gomathi R., Ashok M., Menaka M., Venkaraman B.	Quantification of Wall Loss Defect in Glass Fiber Reinforced Polymer Curved Composites Using Lock-In Thermography	2021	1959298	Department of Physics, National Institute of Technology, Tiruchirappalli, 620015, India; Health Safety and Environment Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer
164	Rout A., Chandna K., Lavanya M., Ramaniathan N.	Thermal stability assessment of a completely recyclable ionic liquid system in presence of acetic acid 24°-A calorimetric study	2021	490631	Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
165	Jose J., Prabhath T., Karthikyan N.S., Venkaraman K.A., Robert Selvan S., Subash H., Venkateshprathy B., Ravichandran C.	Comparative evaluation of radiolytic stability of supersonic stable BTP and BTWP derivatives under static gamma irradiation	2021	2367711	Chemistry Department, Eswari Engineering College, Ramapuram, Chennai, 600090, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Safety Research Institute, Atomic Energy Regulatory Board, Kalpakkam, 603102, India	Springer Science and Business Media B.V.
166	Ravi J., Mishra S., Marati R., Desigan N., Pandey N.K.	Effect of temperature, radiation dose and composition on density, viscosity and volumetric properties of N,N,N',N'-tetraacrylyl diglycolamide (TODGA) and redox-initiator mixture, a promising system for the separation of actinides	2021	2367711	Reprocessing Research and Development Division, Reprocessing Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer Science and Business Media B.V.
167	Ganesh S., Desigan N., Chinniasamy A., Pandey N.K.	Electrolytic and ozone aided destruction of oxalate ions in plutonium oxalate supernatant of the PUREX process: A comparative study	2021	2367711	Reprocessing Research and Development Division, Reprocessing Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer Science and Business Media B.V.
168	Hyaraj V.V., Padmaprabha C., Ojha B.K., Dash B.S., Padakshini M., Anandhy V., Kumar R.V., Vijayarangan A., Venkateswaran C.N., Rathil V., Divakar R.	Irradiation behaviour of ferrous ion 24°: An alternate in-core shielding material for sodium-cooled fast reactors	2021	295493	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
169	Rajakrishna K., Dhanasekaran A., Yyvaraj N., Ajoy K.C., Venkaraman B., Jose M.T.	Improvement in Plastic Scintillator with Loading of BaBr ₂ :Eu ²⁺ -Radiofluorescence Phosphor	2021	189499	Safety Quality and Resource Management Group, Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Safety Quality and Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Institute of Electrical and Electronics Engineers Inc.
170	Rajesh P.T., Reddy B.R., Srinivas C.V., Shekhar S.R., Venkatesan R., Gopalakrishnan V., Venkaraman B.	Validation of a modified FLEXPART model for short-range radiological dispersion and dose assessments in ONERS Decision Support System	2021	1491970	Indira Gandhi Centre for Atomic Research, Kalpakkam-Tamil Nadu, India; Homi Bhabha National Institute, IGCAR, Kalpakkam, India; National Remote Sensing Center, ISRO, Hyderabad, India	Elsevier Ltd
171	Veethanarayana V., Gopala Krishna S., Rao B.P.C.	Performance of Fly Ash Blended Cracked Sand Concrete	2021	22802149	Department of Atomic Energy, Indira Gandhi Centre for Atomic Research, Gov. of India, Kalpakkam, 603102, India	Springer
172	Veerababu J., Goyal S., Vanaja J., Nagsha A., Vasudevan M.	Generation of creep-fatigue interaction diagram for modified 9Cr1Mo steel	2021	3080161	Materials Development and Technology Division Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India; Homi Bhabha National Institute, Mumbai, Maharashtra 400 094, India; Nuclear Fuel Complex, Aera Project/Rajasthan 323 303, India	Elsevier Ltd
173	Mangamma G., Sakran T.N., Chitra M., Manikandan M.	Talking the band gap of ZnO nanostructures using chromium	2021	9214526	Surface and Nanoscience Division, Material Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam, Tamilnadu 603102, India; Department of Physics, Sri Ramakrishna Engineering College, Coimbatore, Tamilnadu 641022, India	Elsevier B.V.
174	Maharajan A., Ravikiran P., Saravanan G., Sengupta A., Madhavan R.R., Joseph K., Murulidharan P., Ananthasamy S., Jayaraman V.	Immobilization of contaminated sodium: an optimization study	2021	223115	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, IGCAR, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu 603102, India; Penner Dean, Chemical Sciences, Homi Bhabha National Institute, Kalpakkam, IGCAR, India	Elsevier B.V.
175	Sivakumar J., Vasudevan M., Korin N.N.	Effect of activated flux magnet iron gas (A-TRG) seeding on the mechanical properties and the metallurgical and corrosion assessment of Inconel 625	2021	432288	Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu 620015, India; Materials Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Springer Science and Business Media Deutschland GmbH
176	Harith M., George R.P., Philip J., Albert S.K.	Binary Blended fly ash concrete with improved chemical resistance in natural and industrial environments	2021	9441344	Corrosion Science and Technology Division, MCI, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam, Tamil Nadu 603102, India	Springer Science and Business Media Deutschland GmbH
177	Stego R., Mittal A., Summe N., Sivaramkrishna M., Prabhakar Rao G.	Design and Development of Quasi Digital Sensor Based Spectrometer	2021	17426288	Innovative Sensor Section, SDD, IGC, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India; Bata Institute of Technology and Science, Planar, Rajasthan, 333011, India	IOP Publishing Ltd
178	Rajaratnam J.B., Srinivas C.V., Venababu V., Hari Prasad D., Venkaraman B.	Impacts of Urbanization, Aerodynamic Roughness, and Land Surface Processes on the Extreme Heavy Rainfall Over Chennai, India	2021	2169897X	Environmental Assessment Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu, India; Homi Bhabha National Institute, Mumbai, India; National Atmospheric Research Laboratory, Gadakh, Andhra Pradesh, India; Physical Science and Engineering Division, King Abdulaziz University of Science and Technology, Thuwal, Saudi Arabia	Blackwell Publishing Ltd

179	Vinothkumar P., Panda S., Jaganath G., Padhi B.K., Muthusudanan G., Panigrahi B.S.	SrBPbO ₃ : Ce ³⁺ , Dy ³⁺ 4E ⁺ A cold white-light emitting phosphor	2021	13861425	Safety Quality & Resource Management Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, Maharashtra, India; Materials Science Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India	Elsevier B.V.
180	Kumar V., Dash M.K., Motra A., Sankala G., Abheri S.K.	Experimental investigation of creep crack growth behavior in the heat affected zone of boron added modified WCp/Al ₂ O ₃ steel weld	2021	9215093	Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakkam, Homi Bhabha National Institute 603102, India	Elsevier Ltd
181	Mahramitha V., Vasantharaj P., Vasudevan M., Panigrahi B.S.	Microstructure and mechanical properties of 9Cr-0.5Mo-1.2Wp-VNb (P92) steel weld joints processed by laser welding	2021	9215093	Materials Development and Technology Division, Metallurgy and Materials Group, India, Laminar Flow Programme, Health Safety and Environment Group, India Gandhi Centre for Atomic Research, Kalpakkam, India	Elsevier Ltd
182	Sethyanarayana A.T., Mini A.	Magnetic, magnetocaloric effect and resistivity behavior of Sb substituted MnAs	2021	9258388	Condensed Matter Physics Division, Materials Science Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India; Homi Bhabha National Institute, Kalpakkam, Tamil Nadu 603102, India	Elsevier Ltd
183	Chitra N., Balu Sankar S., Inigo Valan L., Subramanian V., Jose M.T., Venkatesan B.	MODELING AND EXPERIMENTS TO ESTIMATE RADON EMANATION FACTOR IN SOIL-GRAIN SIZE AND MOISTURE EFFECT	2021	1448420	Radiological and Environmental Safety Division, Tamilnadu, 601302, India; Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Tamilnadu, 601302, India	Oxford University Press
184	Dain S., Thakur A., Hussain S., Chandra Shekar N.V., Amarendra G.	Observation of A1g mode at the edges of MoS ₂ and its applications	2021	21905444	UGC-DAR CSR, Kalpakkam Node, (Affiliated to University of Madras), Kottanad, Tamil Nadu 603104, India; Materials Science Group, IGCAR, HBNI, Kalpakkam, Tamil Nadu 603102, India	Springer Science and Business Media Deutschland GmbH
185	Ravi C., Govindraj R., Alle D.	Molecular dynamics study of the point defects in bcc titanium	2021	34759953	Materials Physics Division, India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, Tamilnadu 603102, India; Earth Sciences Department, University College London, London, WC1E 6BS, United Kingdom	American Physical Society
186	Sukumaran A., Mythili R., Magudavathy P., David C.	Comparison of irradiation-induced Hardening Behavior of P92 Ferritic Martensitic Steel and CrFeMo-V High-Entropy Alloy	2021	10599495	Homi Bhabha National Institute, IGCAR, Kalpakkam, India; Metallurgy and Materials Group, IGCAR, Kalpakkam, India; Materials Science Group, IGCAR, Kalpakkam, India	Springer
187	Gadipaty T., Dasappa A., Sornadurai D., Dhara S.	Controlling the morphology of nanocrystalline Ti(OH) ₃ powder synthesized by microwave-hydrothermal route and effect of annealing	2021	9478396	Physical Metallurgy Division, Materials Metallurgy Group, India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, 603102, India; Condensed Matter Physics Division, India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, 603102, India; Surface and Nanoscience Division, India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, 603102, India; Department of Physics, Basic Science and Humanities, Madhaviah Institute of Technology & Sciences, Madhaviah, Chittoor, Andhra Pradesh, 517325, India	Springer Science and Business Media Deutschland GmbH
188	Joshi R.G., Gupta D.K., Anesh P., Parida P.K., Ravindran T.R.	Microgel hydrogel composite photonic crystals to monitor and extract many ions in aqueous solutions	2021	13871811	Materials Science Group, India Gandhi Centre for Atomic Research, Homi Bhabha National Institute (HBNI), Kalpakkam, 603102, India; Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Homi Bhabha National Institute (HBNI), Kalpakkam, 603102, India; Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Homi Bhabha National Institute (HBNI), Kalpakkam, 603102, India	Elsevier B.V.
189	Raja M.B.P., Sankararamanayam K., Latha S., Prabha T.V., Reddy G.V.P.	Tensile Properties of Modified 9Cr1Mo Steel Cast Tube to Fast Pile Weld Joint	2021	10599495	Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India; Department of Mechanical Engineering, National Institute of Technology, Trichy, India; Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India; Homi Bhabha National Institute, Tamil Nadu, Kalpakkam, 603102, India	Springer
190	Kumar B., Bag S., Mahadevan S., Paul C.P., Das C.R., Bindra K.S.	On the interaction of microstructural morphology with residual stress in fiber laser welding of austenitic stainless steel	2021	17555817	Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Gauhati, Assam 781005, India; Raja Ramanna Centre for Advanced Technology, Indore, 452013, India; Homi Bhabha National Institute, Mumbai, 400094, India; Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
191	Devgan N., Pandey N.K., Joshi J.B.	Influence of the concentration of nitric acid on the composition of NO _x gas evolved during the dissolution of nuclear fuel and its implications on the PUREX process	2021	1491970	Reprocessing Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Former Head, RRE&E, India Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India; Dept. of Chem. Engg., Institute of Chemical Technology, Matunga, Mumbai, 400019, India	Elsevier Ltd
192	Rahman M.K.R., Riccob B., Singh B., Bhatt R., Bhanuik L., Ganesamoorthy S., Vijayan N., Kamal A.K., Bdkin I., Nair L.	Nanoindentation and structural studies of Mg ₂ -doped compound LiNbO ₃ single crystals	2021	2540584	Department of Physics, Janta Millia Islamic New Delhi 110025, India; Institute for Plasma Research, Bhat, Gandhinagar, 382428, India; Department of Physics, Central University of South Bihar, Gaya, 824248, India; Crystal Growth and Instrumentation Section, Laser and Fractional Materials Division, Raja Ramanna Centre for Advanced Technology, Indore, 452013, India; Materials Science Group, IGCAR, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; CSIR-National Physical Laboratory, In-House BND Group, Dr. K. S. Krishnan Road New Delhi 110012, India; TEMS-NRII, Mechanical Engineering Department and Aeronautical Institute of Nanotechnology (AIN), University of Aeronautics, 3810-139, Portugal	Elsevier Ltd
193	Swathi P.K., Sarkar S., Rameshbabu N., Sundarajan K.	Exploring pentavalent phosphorus bonding in phosphoryl chloride-bis(carbon heterocycles) at low temperatures and ab initio Computations	2021	3010104	Homi Bhabha National Institute, Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
194	Saibikumar D., Shaikh H., Dey H.C., Albert S.K.	Remedies for hydrogen embrittlement on Grade-91 steel weld joint during long delay in PWHF	2021	432288	Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Mahabud Sankar A. J. College of Engineering, Sivakasi, Chennai, 603 103, India	Springer Science and Business Media Deutschland GmbH
195	Aryan V., Narayanan M.M., Thiruvakkarasu S., Kumar A.	Optimization of Geometrical Parameters of a Magnetostrictive Ultrasonic Guided Wave Probe for Tube Inspection	2021	1530437X	Non-Destructive Evaluation Division, Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Homi Bhabha National Institute (HBNI), Kalpakkam, India	Institute of Electrical and Electronics Engineers Inc.
196	Vajpayee V., Revora V., Busch N., Dong I., Shujah S.R., And A.J.	LQGH-TR based robust control technique for a pressurized water nuclear power plant	2021	3064549	School of Energy and Electronic Engineering, University of Portsmouth, Portsmouth, PO1 3BE, United Kingdom; School of Built Environment, Engineering, and Computing, Leeds Beckett University, Leeds, LS8 3QX, United Kingdom; Reactor Control System Design Section, Bhabha Atomic Research Centre, Mumbai, 400 085, India; Homi Bhabha National Institute, Mumbai, 400 094, India; Probabilistic Safety, Reactor Shielding and Nuclear Data Section, India Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India	Elsevier Ltd
197	Pathak S.P., Veasamy K.	Role of operating parameters in improving stability of once through steam generator used in SFR	2021	3064549	Homi Bhabha National Institute, Reactor Design and Technology Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
198	Rahman M.K.R., Riccob B., Bhatt R., Bhanuik L., Ganesamoorthy S., Vijayan N., Bhagavantharaya G., Karal A.K., Nair L.	Investigation on Crystaline Perfection, Raman Spectra and Optical Characteristics of Transition Metal (Ru) Co-Doped MgLiNbO ₃ Single Crystals	2021	24703143	Department of Physics, Janta Millia Islamic, New Delhi, 110025, India; Institute for Plasma Research, Bhat, Gandhinagar, 382428, India; Crystal Growth and Instrumentation Section, Laser and Fractional Materials Division, Raja Ramanna Centre for Advanced Technology, Indore, 452013, India; Materials Science Group, IGCAR, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; CSIR-National Physical Laboratory, In-House BND Group, Dr. K. S. Krishnan Road New Delhi, 110012, India; VSM Group of Institution, Ramachandrapuram E. G. (D), (Andhra Pradesh) 531225, India	American Chemical Society
199	Balu Sundaram G., Yeknamy K.	Effect of debris material composition on post accidental heat removal in a sodium cooled fast reactor	2021	205493	Nuclear Systems Analysis Group, India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, 603102, India	Elsevier Ltd
200	Ravindranth N.A., Jayaraman V.	Estimation of mercury and zinc concentration in the vapor phase by measuring oxygen partial pressure	2021	9254005	Homi Bhabha National Institute, IGCAR Campus, Novel Chemical Section, Materials Chemistry Division, Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Elsevier B.V.
201	Maji D., Anantharam K., Venkateshrathnan R., Devgan N., Pandey N.K.	Synthesis, Characterization and sintering of nanocrystalline (U _{1-x} Ce _x)O ₂ ax	2021	223115	Homi Bhabha National Institute, IGCAR Campus, Kalpakkam, 603102, India; Materials Chemistry and Metal Fuel Cycle Group, Reprocessing Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu 603102, India	Elsevier B.V.
202	Potluri S.R., Sahoo G., Anesh P., Krishna N.G., Kamreddy M., Dhara S.	Engineering the edge-terminations and defect-density to enhance the electrochemical capacitance performance of vertical graphene nanosheets	2021	1694332	Materials Science Group, India Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, 603 102, India; Curious Science Division, India Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India	Elsevier B.V.

203	Venkateswar Rao C., Rout A., Boda A., Mishra, A.K., Venkatesan K.A.	Anion assisted extraction of UVI in aluminum ionic liquid: Experimental and DFT studies		2021	1385866	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; Fuel Chemistry Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Chemical Engineering Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	Elsevier B.V.
204	Bhaktarajan J., Preechi L.K., Sreedhara D., Raju A., Malaga K.K., Dhara S., Rao K.S.R.K.	Temperature- And size-dependent photoluminescence in colloidal CdTe and CdZnTe _{1-x} Te _x quantum dots		2021	223727	Department of Physics, IISc, Bengaluru, India; Sathyabama Institute of Science and Technology, Chennai, India; Vijnana Labs, Bengaluru, India; Surface and Nanoscience Division, IGCAR, HBNI, Kalpakkam, India.	IOP Publishing Ltd
205	Jaine R.N., Sahu R.K., Das A.	Recyclable ZnS QDs as an efficient photocatalyst for dye-degradation under the UV and visible light		2021	1140456	Health Physics Unit, Integrated Nuclear Recycle Plant - Kalpakkam, Nuclear Recycle Board, Bhabha Atomic Research Centre Facilities, Kalpakkam, 603102, India; Homi Bhabha National Institute, Kalpakkam, 603102, India; Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Royal Society of Chemistry
206	Vijayakumari S.C., Athulya V., George R.P., Philip J.	Fabrication of superhydrophobic and self-cleaning PVA-silica fiber coating on 304L SS surfaces by electrospinning		2021	218995	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Chennai, India; Department of Chemistry, University of Calicut, Malappuram, Kerala, India; Homi Bhabha National Institute, Mumbai, India	John Wiley and Sons Inc
207	Thiruvanan C., George R.P., Philip J.	In-situ detection of early corrosion of ferritic steel in aqueous solutions of different anions using laser raman spectroscopy		2021	134651	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India	IOP Publishing Ltd
208	Brahim S., Muthafa M.M., Adam M.M., Abdulkhamid K.M., Sulekhan M., Elmaghribi M., Rao J.S.R., Kumar G.V.S.A., Sundararajan K.	Trace elemental fingerprinting of Ayurvedic Formulations Noshakankani using XRF and NAA		2021	2368711	Department of Physics, Calicut University, Malappuram, Kerala, India; Department of Physics, Govt. Arts College, Calicut, Kerala, India; P.G. Department of Physics, MES Praxitani College, Ponnani, Kerala, India; UGC-DAE-CSR, Kolkata Centre, Sector 3, Block I.B., Bhabha Nagar, Kolkata, India; Research Facilities Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India	Springer Science and Business Media B.V.
209	Rovvidi S.C.S.P.K., Goyal S., Bhaduri A.K.	Experimental and Numerical Investigation of High-Temperature Low-Cycle Fatigue and Creep-Fatigue Life of Bellows		2021	10599495	Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha national institute, Kalpakkam, 603102, India; Nuclear Fuel Complex, Kota Project, Rawatbhata, 323001, India	Springer
210	Shiva V., Goyal S., Parthasarathi N.L., Das C.R., Kumar R., Nagaha A., Bosh U., Albert S.K., Bhaduri A.K.	Influence of Stress Ratio and Contact Pressure on Fatigue Behavior of Modified 9Cr-1Mn-Steel		2021	10599495	Homi Bhabha National Institute, Kalpakkam Campus, Mumbai, 400094, India; Nuclear Fuel Complex, Kota Project, Rawatbhata, 323 301, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer
211	Manal K., Ganesh S., Deivan N., Augustine E., Rajeev R., Pandey N.K.	Kinetics of simultaneous stripping of UVVI and nitric acid from tri-n-butyl phosphate		2021	1491970	Reprocessing Group, Indira Gandhi Centre for Atomic Research, Kalpakkam/Tamilnadu 603102, India; Former Head, Reprocessing Research and Development Division, Indira Gandhi Centre for Atomic Research, Kalpakkam/Tamilnadu 603102, India	Elsevier Ltd
212	Jaharharam S., Amalakshmi O., Jose M.T., Mahiyarav K., Venkatesan B.	Ceramic based electronic component as retrospective radionuclide detector		2021	9698043	Safety Quality and Resource Management Group, Indira Gandhi National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
213	Srinama B., Bhaktarajan S., Ananthasivan K.	Experimental investigation on the phase equilibria in the system SnBi ₂ -Zr (0at%–100 at.% Zr) by using fireproof-etching and DTA		2021	9669795	MC & MPCG, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, IGCAR Campus, Kalpakkam, India; Reprocessing Group, IGCAR, Kalpakkam, India	Elsevier Ltd
214	Balsomdar S., Chandrakasan S., Subramanian V., Venkatarman B.	Investigations on neutron attenuation properties of poly-boron materials using Au-Be and 252Cf sources neutron spectra		2021	2064549	Safety, Quality and Resource Management Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, Tamil Nadu 603102, India	Elsevier Ltd
215	Thakur A., Mandey J., Dam S., Shekar N.V.C., Anurendra G., Husain S., Rajesh P.V., Saha A.	Enhancing the electroactive phases in free-standing flexible films of MoS ₂ /PVDF		2021	25737619	UGC-DAE-CSR (Affiliated to University of Madras), Kodaikanal, Tamil Nadu, India; Materials Science Group, IGCAR, HBNI, Kalpakkam, Tamil Nadu, India; UGC-DAE-CSR, Kolkata Centre, Kolkata, West Bengal, India	John Wiley and Sons Inc
216	Ganesh D., Eswaran P., Senthikumar G., Bannath S.N., Chandrakasan S., Ravikiran R.	A Quantitative Study of Natural Uranium Present in Groundwater of Tiruvannamalai District of India		2021	10286276	Post Graduate and Research Department of Physics, Government Arts College, Tiruvannamalai, Tamil Nadu 606601, India; Division of Physics, Sreevidya School of Engineering, Sreevidya Institute of Medical and Technical Sciences, Thandam, Chennai, Tamil Nadu 602019, India; Department of Physics, University College of Engineering Arni, Thiruchir, Tamil Nadu 622226, India; Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, Tamil Nadu 603102, India	Springer Science and Business Media De Gruyter GmbH
217	Menachandran S., Wakita N., Muramatsu-Shiwa C., Gangopadhyay P., Sakamoto N., Potomayev S.	Enhanced Magnetostrictive Effects in Self-Assembled Hexagonal Close-Packed CoFe ₂ O ₄ Thin Film		2021	3615235	Graduate School of Science and Technology, Shizuoka University, Hamamatsu, 4228-5601, Japan; Department of Electronics and Materials Science, Shizuoka University, Hamamatsu, 4228-8601, Japan; Research Institute of Electronics, Shizuoka University, Hamamatsu, 4228-8601, Japan; Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Chennai, 603102, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603348-102, India	Springer
218	Menachandran S., Wakita N., Muramatsu-Shiwa C., Gangopadhyay P., Sakamoto N., Potomayev S.	Magnetostrictive Studies of Close-Packed and Hierarchically Ordered CoFe ₂ O ₄ /PbZr _{0.5} Ti _{0.5} O ₇ /La _{0.6} 0.4Mn _{0.3} La _{0.7} 0.3Mn _{0.7} Thin Film		2021	3615235	Graduate School of Science and Technology, Shizuoka University, Hamamatsu, 422-8501, Japan; Department of Electronics and Materials Science, Shizuoka University, Hamamatsu, 422-8501, Japan; Research Institute of Electronics, Shizuoka University, Hamamatsu, 422-8501, Japan; Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Chennai, 603-203, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Springer
219	Bhujpal A.V., Venkatesan K.A., Bhanage B.M.	Electrochemical deposition of nanocrystalline aluminum from a protic ionic liquid on mild-steel		2021	1677322	Institute of Chemical Technology, Mumbai, 400019, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
220	Roshi D.R., Kumar T.N., Harilal M., Saha S., George R.P., Philip J.	Enhanced corrosion protection of reinforcement steel with nanomaterial incorporated fly ash based cementitious coating		2021	9500618	Corrosion Science and Technology Division, MCG, Metallurgy and Materials Group, IGCAR, Kalpakkam, 603102, India; Department of Structural Engineering, Government College of Technology, Coimbatore, Tamil Nadu 641 013, India; Homi Bhabha National Institute, Mumbai, 600 094, India	Elsevier Ltd
221	Panda S., Vinodkumar P., Sahoo M., Mahasoudhan U., Patraigal B.S.	Probing the site occupancy of dopants in deep red-NIR emitting LiAlO ₄ :Eu ³⁺ , Cr ³⁺ and Fe ³⁺ nano phosphors using photoluminescence and X-ray absorption spectroscopy		2021	9258388	Homi Bhabha National Institute, Mumbai, India; Safety Quality and Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Elsevier Ltd
222	Chandro S., Suryaprasad B., Ramanathan N., Sundararajan K.	Nitrogen as a pi-acceptor: evidence for π -back-bonding driven sigma-pi back-bonding interactions in nitronethane-iron(II) aggregates using matrix isolation infrared-spectroscopy amidst auto-complexation		2021	14639076	Homi Bhabha National Institute, Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Royal Society of Chemistry
223	Madhu K.K., Bhuyan C.A., Srivastava S.K., Dhara S.	A novel mechanism for understanding the strong enhancement of photoluminescence quantum yield in large-area monolayer MoS ₂ grown by CVD		2021	20507534	Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, 603102, India; Materials Physics Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Royal Society of Chemistry
224	Harilal M., Kande D.K., Uthman S., George R.P., Pillai R.G., Philip J., Albert S.K.	The chloride-induced corrosion of a fly ash concrete with nanoparticles and corrosion inhibitor		2021	9500618	Corrosion Science and Technology Division, MCG, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam, Tamil Nadu 603102, India; Department of Civil Engineering, Indian Institute of Technology Madras, Chennai, 600 036, India	Elsevier Ltd
225	Goud E.V., Vijai Anand A.S., Pallegave R., Behramanada Rao C.V.S., Nageshwar S., Sivaramakrishna A.	Unexpected Coordination Modes of Biophosphonates with Lanthanum(III) and Thorium(IV) Ions: Synthesis, Structural Characterization, Stability, and Extraction Studies		2021	23656549	Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology (VIT), Vellore, Tamil Nadu 62014, India; Department of Chemistry, Central University of Karnataka, Kalagachi, Kalaburgi, Karnataka 585 587, India; HBNI, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	John Wiley and Sons Inc
226	Caruthers A.W., Li B.S., Rigby M., Rapier L.C., Myhill R., Ghosh C., Daegler A., Armstrong D.E.J., Gandy A.S., Pickering E.J.	Novel reduced-activation TiVCoFe based high entropy alloys		2021	9258388	Department of Materials, University of Manchester, Manchester, M13 9PL, United Kingdom; Department of Materials, University of Oxford, Oxford, OX2 0FT, United Kingdom; Department of Materials Science and Engineering, University of Sheffield, Sheffield, S1 3JD, United Kingdom; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
227	Ganesh Kumar J., Prasad Reddy G.V., George A., Sukumar A., Myhill R., Anil Kumar P., Das Gupta A., Vasudevan M.	Evaluation of tensile properties of thermally aged 316L stainless steel with varying nitrogen content using ABI technique		2021	9215093	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; National Institute of Technology, Warangal, 506004, India	Elsevier Ltd

228	Arun B., Vivvanathan S., Subramanian V., Jose M.T., Venkataran B.	Study of Triple to Double Coincidence Method for Tritium Measurements				2021	10663622	Safety Quality and Resource Management Group, Indira Gandhi Centre for Atomic Research, Trindhabadi, Kalpalakam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Trindhabadi, Kalpalakam, 603102, India	Provides journals
229	Harikumar P., Jaya S.M., Chandu S.	Magnetic and electronic properties of transition metal doped aluminium nitride: Haldane's approach combined with ab initio results				2021	21383226	Materials Science Group, Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India	American Institute of Physics Inc.
230	Palaparti D.P.R., Ganesh V., Christopher J., Reddy G.V.P.	Tensile Flow Analysis of Austenitic Type 316LN Stainless Steel Effect of Nitrogen Content				2021	10599495	Creeep Studies Section, Materials Development and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpalakam, Tamil Nadu 603102, India; Homi Bhabha National Institute, KICAR, Kalpalakam, Tamil Nadu 603102, India	Springer
231	Yadav S.S., Roy S.C., Venenhuji J., Goyal S.	Quantitative Assessment and Analysis of Non-Mixing Behavior of Materials under Fatigue				2021	10599495	Department of Mechanical Engineering, Indian Institute of Technology Roorkee, Roorkee, 240001, India; Materials Development and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India; Nuclear Fuel Complex, Kota Project, Rawatbhata, 323301, India	Springer
232	Satyja A.K.G.V., Vilhija J., Rajarajan S., Kumar R.	Purification of ^{99m} Tc from FBTR irradiated Yttria target by extraction chromatography using HDEHP impregnated NAD-7 resin				2021	338230	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, Chennai, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Chennai, 603102, India	De Gruyter Open Ltd
233	Arijita Aparajita An., Sanjay Kumar N.R., Chandu S., Chandra Shekhar N.V., Kalaraj S.	Synthesis of novel chromium carbide using laser heated diamond anvil cell				2021	224596	High Pressure Physics Section, Condensed Matter Physics Division, Material Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpalakam, Tamil Nadu 603102, India; Materials Physics Division, Material Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpalakam, Tamil Nadu 603102, India	Academic Press Inc.
234	Rishab Singh C., Amaladasa E.P., Parida P.K., Sun T., Jungo S., Dhara S.	A very low temperature (170 K) crystallization of amorphous-Ge thin film on glass via Au induced layer exchange process in amorphous-Ge/GeO ₂ /Au/glass stack and electrical characterization				2021	1094332	Surface and Nanoscience Division, Material Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpalakam, 603102, India; Condensed Matter Physics Division, Material Science Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India; Physical Metallurgy Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India	Elsevier B.V.
235	Hazibabu S., Sulha C., Sahaiv V., Raju S.	Austenitic transformation and influence of prior ferrite formation on martensite transformation characteristics of Al-added P91 ferritic-martensitic steel				2021	223115	Physical Metallurgy Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, Trindhabadi, 603102, India; High Pressure and Synchrotron Radiation Physics Division, Homi Bhabha Atomic Research Centre, Mumbai, 400085, India	Elsevier B.V.
236	Anvile D.D., Vijayanand V.D., Balaji A.R., Thowre M.M., Prasad Reddy G.V.	Study of microstructural transition in dissimilar weld joint from as-welded to PWHF condition using electron back-scattered imaging				2021	0167577X	Department of Metallurgical & Materials Engineering, VNIT, Nagpur, 440010, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India; Department of Mechanical Engineering, University of Bristol, Bristol, BS8 1TR, United Kingdom; Homi Bhabha National Institute, Kalpalakam, 603102, India	Elsevier B.V.
237	Parida S., Sahoo M., Akhuria A., Tripathi R.M., Galvani D.S., Dhara S.	Effect of Oxygen and Aluminum Incorporation on the Local Structure of GeO ₂ Nanowires: Insight from Extended X-ray Absorption Fine Structure Analysis				2021	19327447	Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpalakam, 603102, India; Atomic and Molecular Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Applied Physics Department, State University of Campinas, Campinas, SP 13083-970, Brazil; Center for Computational Engineering and Sciences, State University of Campinas, Campinas, SP 13083-970, Brazil	American Chemical Society
238	Muthukumar T., Philip J.	Synthesis of water dispersible phosphates capped CdTe/ZnO nanoparticles and its application in efficient organic dye removal				2021	9277757	Smart Materials Section, Corrosion Science and Technology Division, Metallurgy and Materials Group, IGCAR, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpalakam, Tamil Nadu 603102, India	Elsevier B.V.
239	Chakraborty S., Singh L.H., Sharma G.K., Ravindra T.R.	Understanding alkali oxide induced structural modification at different length-scales in titrate glasses for improved optical properties				2021	928388	Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India; Department of Physics, National Institute of Technology Manipal, Manipal, 577002, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India	Elsevier Ltd
240	Sankaran K.J., Kurian J., Sundarivel B., Lin L.-N., Hazare K.	Diamond-gold nanohybrid ¹⁸ F an enhanced cathodic material for field electron emitter applications				2021	223727	Institute for Materials Research (IMR), Hassock University, Daejeon, 350, Republic of Korea; IMREC, IMREC vsc, Daejeon, 350, Republic of Korea; Department of Physics, Tainan University, Tainan, 701, Taiwan; Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India; CSIR, Institute of Minerals and Material Technology, Bhubaneswar, 751013, India	IOP Publishing Ltd
241	Vetrivendan E., Madhava B., Rao Ch.J., Nigshen S., Mudali U.K.	Development of silicon carbide interlayers for plasma spray yttria topcoat on graphite for high-temperature applications				2021	21635992	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India; Bhabha Atomic Research Centre Training Laboratory Complex, Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India; Heavy Water Board, 5th Floor, Vikram Sarabhai Bhawan, Anushakti Nagar, Mumbai, 400094, India	ASTM International
242	Sakthivel T., Das C.R., Laha K., Sankala G.	Creep Properties of Intermetallic Heat Treated Bismuth Added Modified 9Cr1Fe1Mo Steel				2021	15980623	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India; Homi Bhabha National Institute, Mumbai, 400094, India; AISC Mission Directorate, Noida, 201305, India	Korean Institute of Metals and Materials
243	Rahul T., Ganesh S., Pandey N., Sanat K.	Catalytic Decomposition of Hydrazine in Nitric Acid Medium on Pt/SiO ₂ Catalyst				2021	972026	Regenerative Research and Development Division, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India	World Research Association
244	Sumana, Ponceenivasan S., Kumar A.	Comparative Study on Using Ultrasonic Array-Based Techniques for Detection of Flaws in Thick and Attenuating Materials				2021	9722815	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpalakam, Tamil Nadu 603102, India	Springer
245	Banil Kumar D., Muthukumar S., Vasudevan M., Reddy G.M.	Microstructure and Mechanical Properties Relationship of Friction Stir and A-GTA-Welded TiC/1Mo + 2.25Cr/1Mo Steel				2021	10599495	Department of Metallurgical and Materials Engineering, National Institute of Technology, Tiruchirappalli, 620016, India; Materials Development and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India; Material Joining Group, Defence Metallurgical Research Laboratory, Hyderabad, 500058, India	Springer
246	Mudhakar P., Jagannath G., Prada S., Padhi R.K., Muthumaran V., Pragasini B.S.	Color tuning from green to orange-red in SrPbO ₃ :Eu ²⁺ /Pb ²⁺ phosphor via energy transfer for solid-state lighting applications				2021	22117397	Safety Quality & Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, Tamil Nadu, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, Maharashtra, India; Material Science Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, Tamil Nadu, India	Elsevier B.V.
247	Archana M., Rao C.J., Nigshen S., Philip J.	High-Temperature Air and Steam Oxidation and Oxide Layer Characteristics of Alloy 617				2021	10599495	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, TN 603102, India; Homi Bhabha National Institute, Mumbai, 400094, India	Springer
248	Isakathamm S., Ananthakshi D., Manjaryan R., Jose M.T., Venkataran B.	RFID chip card modules from employee identity cards in ORL based retrospective dosimeters				2021	0168583X	Health Safety and Environment Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India	Elsevier B.V.
249	Rout A., Kumar S., Ramasathan N.	Probing the coordination of europium(III) in a functionalized ionic liquid using luminescence spectroscopy				2021	1677222	Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India	Elsevier B.V.
250	Shirley Anvile L., Jena H., Sengupta A., Sulha R.	Studies on thermal (R _e) stability and heat capacity measurements on Ca ₁₀ (OH) ₂ (PO ₃) ₆ (OH) ₂ (F) ₂ · x - 0 to 0.75x radiate immobilization				2021	406031	Homi Bhabha National Institute, KICAR Campus, Kalpalakam, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India	Elsevier B.V.
251	Sarepalli S., Dhyanan R., Kumar A., Kohore N.N., Saha H.	Evaluation of material degradation using phased array ultrasonic technique with full matrix capture				2021	13506307	Department of Civil and Environmental Engineering, KAIST, 291 Daejeon, Yuseong-gu, Daejeon, 30541, South Korea; Nondestructive Evaluation Division, Indira Gandhi Centre for Atomic Research, Kalpalakam, Tamil Nadu 603102, India; Department of Mechanical Engineering, Indian Institute of Technology Tirupati, Tirupati 517 506, Tirupati, India	Elsevier Ltd
252	Ramachandran R., Julie S., Rajaraman R., Govindaraj R., David C., Anantharaj G.	High-temperature radiation damage studies of Reduced Activation Ferritic/Martensitic (RAFMs) steel at fusion relevant fluence rates using positron beam based Doppler broadening spectroscopy				2021	223115	Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpalakam, Tamil Nadu 603102, India	Elsevier B.V.
253	Anvile D.D., Vijayanand V.D., Balaji A.R., Thowre M.M., Ganesh Kumar J., Prasad Reddy G.V.	Evaluation of tensile properties of various regions of creep exposed dissimilar weld joint using miniature specimen testing				2021	15506307	Department of Metallurgical & Materials Engineering, VNIT, Nagpur, 440010, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpalakam, 603102, India; Department of Mechanical Engineering, University of Bristol, Bristol, BS8 1TR, United Kingdom; Homi Bhabha National Institute, Kalpalakam, 603102, India	Elsevier Ltd

254	Jade V, Sharma A.K.		Enhancement in heat transfer from heat generating core debris using a passive approach in fast reactors: 3-D CFD analysis		2021	12900729	Homi Bhabha National Institute (HBNI), Mumbai, IGCAR Kalpakam Centre/Tamil Nadu, India; Thermal Hydraulic Division, Reactor Design and Technology Group (RDTG), Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakam/Tamil Nadu, India; Department of Mechanical Engineering, Jamia Millia Islamia (JMI) University/New Delhi, India	Elsevier Masson s.r.l.
255	Shukla H., Shwetla G., Sanjay Kumar N.R., Chandu Shekar N.V.		Structural stability and anomalous compressibility of isolectronic compounds- URb3 and UR3		2021	9214526	High Pressure Physics Section, Condensed Matter Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakam, TN, India; Materials Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakam, TN, India	Elsevier B.V.
256	Basu P., Sarangapani R., Venkataratnam B.		An improvement to the Kalsol™ formula for double layer gamma ray exposure buildup factors for shielding materials of nuclear and radiological facilities		2021	9364549	Safety, Quality and Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakam, Tamilnadu, 603102, India; Homi Bhabha National Institute, Kalpakam, Tamilnadu, 603102, India	Elsevier Ltd
257	Kumar A., Chaitanya G.M.S.K., Goyal S., Gowami M., Kumar A., Uj Hamani G.A.		Assessment of Notch Effect Based on Finite Element Analysis and Digital Image Correlation Technique		2021	16113083	Rubber Technology Centre, Indian Institute of Technology, Kharagpur, Kharagpur, 721302, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Homi Bhabha National Institute, Mumbai, Kalpakam Campus, Kalpakam, India; Department of Mechanical Engineering, National Institute of Technology Sonapat, Sonapat, 170004, India	Wiley-VCH Verlag
258	Balakrishnan A., Ama G., Pongachira George R., Philip J.		Polydimethylsiloxane/graphene oxide nanocomposite coating with improved anti-corrosion and anti-biofouling properties		2021	9441344	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Homi Bhabha National Institute, Mumbai, 400084, India	Springer Science and Business Media Deutschland GmbH
259	Thakkumarani K., Mukhopadhyay C.K.		Analysis of Acoustic Emission Signal to Characterize the Damage Mechanism During Drilling of Al-5%SiC Metal Matrix Composite		2021	1876990X	Non-destructive Evaluation Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu, 603102, India; Homi Bhabha National Institute, Kalpakam, Tamil Nadu, 603102, India	Springer Science and Business Media B.V.
260	Saha B.K., Divisoli A., Pal K.K., Pandian R., Dhara S., Das A.		Optimized Au NRs for efficient SERS and SERIS performances with molecular and longitudinal surface plasmon resonance		2021	1094332	Surface and Nanoscience Division, Material Science Group, IGCAR, HBNI, Kalpakam, 603102, India; Department of Physics, Indian Institute of Technology Delhi, Hazrat Nizam, New Delhi, 110016, India; Reprocessing Materials Development Section, Reprocessing Research & Development Division, Reprocessing Group, IGCAR, HBNI, Kalpakam, 603102, India	Elsevier B.V.
261	Praveen C., Christopher J., Ganesan V., Reddy G.V.P., Albert S.K.		Influence of varying nitrogen on creep-deformation behaviour of 316L austenitic stainless steel in the framework of the site-saturated approach		2021	9215093	Materials Engineering Group, Metallurgy & Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu, India; Homi Bhabha National Institute (HBNI), Indira Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu, India	Elsevier Ltd
262	Sahoo G., Pokhi S.R., Pradeepath A., Krishna N.G., Mathews T., Kumaradim M.		Synergistic Effect of NO Decontamination and Oxygen Plasma Treatment on Electrochemical Capacitor Performance of Vertical Graphene Nanosheets		2021	2740962	Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakam, Tamil Nadu, 603102, India; Materials Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakam, 603102, India; Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu, 603102, India	American Chemical Society
263	Narayana P.K., Major S.S.		Langmuir-Blodgett based growth of rGO wrapped TiO2 nanowires and their photocatalytic performance		2021	9277757	Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Department of Physics, Indian Institute of Technology Bombay, Mumbai, 40076, India	Elsevier B.V.
264	Varghese P., Venkatesan E., Krishan R., Maheshw T., Ningshen S.		Plasma sprayed alumina-yttria composite ceramic coating for electrical insulation applications		2021	2578972	Corrosion Science and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Homi Bhabha National Institute, Mumbai, 400094, India	Elsevier B.V.
265	Sain T., Kohan Singh C., Anubhava E.P., Bangu S., Mathews T., Mani A.		Electrical transport and optical properties of Al doped polystyrene SiGe alloy thin film		2021	2540584	Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakam, 603102, India	Elsevier Ltd
266	Suryaprasad B., Chandra S., Ramanathan N., Sankaranarayanan K.		Pentavalent PMe3 phosphorus bonding with associated Csp ² hybrid bonding influencing the geometry of POC13-Phenylacetylene heterodimers: Evidence from matrix isolation infrared spectroscopy and ab-initio computation		2021	222860	Homi Bhabha National Institute, Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu, 603102, India	Elsevier B.V.
267	Karthik S., Sathya A., Ganesh D., Thiyaipalmani K., Ganesamoorthy S., Chaudhary A.K., Brahadeswaran S.		Growth, spectral, laser damage and highfield surface modes on configurationally locked 2-(3-(4-hydroxyphenyl)-5,5-dimethylpyrrolidin-2-ylidene) malonamide (OHI) single crystal: A potential tribarbitic center		2021	222860	Crystal Research Laboratory, Department of Physics, Bharathidasan Institute of Technology, Anna University, Thanjavur, 620024, India; Department of Physics, Muthayyan Engineering College, Rasipuram, Namakkal, 637 408, India; Advanced Centre of Research in High Energy Materials (ACRHEM), University of Hyderabad, Hyderabad, 500046, India; Department of Physics, JKM Arts and Science College, Dhanurpatti, 636905, India; X-ray Scattering and Crystal Growth Section, Materials Science Group, IGCAR, Kalpakam, India	Elsevier B.V.
268	Beatricevena T.V., Res Rama Murthy A., Prabhu E., Gunasekar K.I.		Wide range hydrogen sensing behavior of a silver electrode: Performance towards long term stability, repeatability and selectivity		2021	3603199	Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakam-603 102, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400085, India	Elsevier Ltd
269	Singh S., Anes P., Chandra S., Ghanty T.K.		Strain Engineering of 2D-CNSMonolayer and Its Application in Overall Water-Splitting: A Hybrid Density Functional Study		2021	19327447	Materials Science Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakam, 603102, India; Homi Bhabha National Institute, Anushaktinagar, Mumbai, 400094, India; Bio-Science Group, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India	American Chemical Society
270	Abdul M., Muzam M., Kamarudin M., Matinse N., Motal R.		Electrochemical properties of silver nanoparticles decorated on vertical graphene nanosheets		2021	22147853	UNESCO-UNISA Africa in Nanoscience Nanotechnology (UNACNN), College of Graduate Studies, University of South Africa (UNISA), Pretoria, South Africa; Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Nanoscience African Network (NANOAFNET)/Material Research Division, Thembu LABS-National Research Foundation, Somerset West, 7129, South Africa	Elsevier Ltd
271	Ghosh C., Dasgupta A.		Imaging Dislocation Cores in Seven-Plankably Deformed Nanocrystalline Cu-11 Alloys Through Geometrical Phase Analysis of Spherical Aberration-Corrected HRTEM Images		2021	26623161	Materials Characterization Group, Metallurgy & Materials Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakam, 603102, India	Springer Nature
272	Preetha T., Senthil K., Ashokan S., Balakrishnan R., Sundarvel B., Saravanan P.		Enhanced Humidity Sensing Properties of Surfactant-Free Hydrothermally Synthesized Tin Oxide Nanoparticles		2021	30776772	Advanced Materials Research Laboratory, Department of Physics, Bharati Annam Institute of Technology, Tamil Nadu, Sathyamangalam, 638401, India; Department of Food Technology, Bharati Annam Institute of Technology, Tamil Nadu, Sathyamangalam, 638401, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Tamil Nadu, Kalpakam, 603102, India; Defence Metallurgical Research Laboratory (DMRL), Hyderabad, Kanchanbagh, 500076, India	Banyu State University
273	Thirumalai Kumar S., Baranidharan K., Ishayakumar M., Parandewaran P.		Corrosion studies on stainless steel 316 and their prevention 4E- A review		2021	20668201	Faculty of Mechanical Engineering, Kaluvalingam Academy of Research and Education, Kozhikode, Tamil Nadu, 626126, India; Department of Automobile Engineering, Kaluvalingam Academy of Research and Education, Krishnankoil, Tamil Nadu, 626126, India; Former Scientist-H, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu, 603102, India	INCAS- National Institute for Aerospace Research Elie Cartan
274	Sharath D., Menaka M., Venkataratnam B.		Image Definition and Defect Sizing in Lock-in Thermography: An Experimental Investigation		2021	7128818	Center for Imaging Technologies, M S Ramaiah Institute of Technology, Vivekananda Technological University, Bengaluru, India; Department of Chemistry, M S Ramaiah Institute of Technology, Vivekananda Technological University, Bengaluru, India; Safety, Quality & Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakam, India; Homi Bhabha National Institute, Kalpakam, India	Springer Science and Business Media Deutschland GmbH
275	Preetha T., Senthil K., Ashokan S., Sundarvel B., Saravanan P.		Structural, optical and magnetic properties of SnO2nanoparticles synthesized via surfactant-free hydrothermal process		2021	22147853	Advanced Materials Research Laboratory, Department of Physics, Bharati Annam Institute of Technology, Tamil Nadu, 638401, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakam, 603102, India; Defence Metallurgical Research Laboratory, Kanchanbagh, 500076, India	Elsevier Ltd

276	Suresh U., Kannan S. P., Ramaseshan R., Dhanalakshmi S.	Structural, nanomechanical and electrochemical properties of Ti and TiN films prepared by pulsed DC magnetron sputtering technique	2021	22147853	Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology (Deemed to Be University), Chennai, 600119, India; Surface Science Section, Surface and Nanoscience Division, Material Science Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Nano and Composites Group, Advanced Technologies Division, Combat Vehicles Research and Development Establishment (CVRDE), Avadi, 600054, India	Elsevier Ltd
277	Reddy G.V.P., Kathik V., Latha S., Venkateswara C.N., Ramachandran D., Albert S.K.	Core materials for sodium-cooled fast reactors: Past to present and future prospects	2021	21659992	Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Tamil Nadu, Kalpakkam, 603102, India; Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India	ASTM International
278	Baramidharan K., Kumarin S.T., Uthayakumar M., Parameswaran P.	Comprehensive review of various corrosion behaviours on 316 stainless steel	2021	22178961	Department of Automobile Engineering, Kalasalingam Academy of Research and Education, Krishnankovil Tamil Nadu, 626126, India; Faculty of Mechanical Engineering, Kalasalingam Academy of Research and Education, Krishnankovil Tamil Nadu, 626126, India; Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakkam Tamil Nadu, 603102, India	Association of Metallurgical Engineers of Serbia
279	Srin P.P., Sengottai V.S., Patel R., Mani A., Sivanji R.J., Sathesh S.	Solving Inverse Problem in Magnetocardiography by Pattern Search Method	2021	3772063	Condensed Matter Physics Division, Materials Science Group, India Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, India; Department of Cardiology, Jawaharlal Institute of Postgraduate Medical Education and Research, Pondicherry, India	Taylor and Francis Ltd
280	Yadavalli H.V., Krishna Mohan T.V., Ranganna S., Albert S.K.	Design, fabrication, testing and operation of a simulation facility for high temperature molten salt studies	2021	37260513	Department of Atomic Energy, Bhabha Atomic Research Centre Water and Steam Chemistry Division, Kalpakkam, India; Bhabha Atomic Research Centre Water and Steam Chemistry Division, Kalpakkam, India; India Gandhi Centre for Atomic Research Metallurgy and Materials Group/Kalpakkam, India	Emerald Group Holdings Ltd.
281	Arutha A., Vigneesari M., Amirthapandian S., Panigrahi B.K., Thangadurai P.	Fluid Synthesis and Characterization of Microstructure and Optical Properties of Pure and Zn Doped SnO ₂ Nanoparticles	2021	10407278	Centre for Nanoscience and Technology, Pondicherry University, Kalpet, Pondicherry 605014, India; Department of Physics, The Standard Fireworks Rajaraman College for Women, Sivakasi, Tamil Nadu, 626123, India; Materials Physics Division, Materials Science Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer
282	Ural A.K., Yasudavan M.	Determination of heat source model for simulating full penetration laser welding of 316 L/N austenitic steel by computational fluid dynamics	2021	22147853	Homi Bhabha National Institute, Maharashtra, India; Materials Development and Technology Division, Materials Engineering Group, India Gandhi Centre for Atomic Research, Tamilnadu, India	Elsevier Ltd
283	Ganesan V., Praveen C., Christopher J., Prasad Reddy G.V., Vasudevan M.	Creeep behavior of nuclear grade 316LN austenitic stainless steel at 873 and 923 K	2021	13852000	Materials Development and Technology Division, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India; Homi Bhabha National Institute (HBNI), India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India	Springer Science and Business Media B.V.
284	Chakraborty G., Rani R., Ramaseshan R., Devraj M.A., Das C.R., Mathews T., Albert S.K.	High-Temperature Tribological Behavior of Nickel-Based Hardfacing Alloys	2021	10402004	India Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, Kalpakkam, India	Beilweher Publishing, Ltd.
285	Dhayan R., Rajkumar K.V., Kumar A.	Ultrasonic high frequency guided waves for testing of dissimilar metal welds	2021	22147853	Non-Destructive Evaluation Division, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
286	Selvaraj D., Suganya K., Menaka M., Venkaraman B.	Deep convolutional neural network-based diabetic eye-disease detection and classification using thermal images	2021	17550556	Electronics and Communication Engineering, Mepco Schriek Engineering College, Sivakasi, Vellore District, Tamil Nadu, 626005, India; Safety, Quality and Resource Management Group, India Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Chennai, Tamil Nadu 603102, India	Inderscience Publishers
287	Sekhivel T., Sankala G., Syamala Rao P., Parameswaran P., Laha K.	Creeep-deformation and rupture behaviour of boron-added P91 Steel	2021	2070036	Metallurgy and Materials Group, Kalpakkam, India; Homi Bhabha National Institute, Mumbai, India; Materials Science Group, India Gandhi Centre for Atomic Research, Kalpakkam, India; AISC Mission Directorate, Noida, India	Taylor and Francis Ltd.
288	Sourav S., Chandra P.K., Murugan S.	Design of Temperature Controller for Irradiation Experiment in Nuclear Reactor	2021	3772063	Reactor Design and Technology Group, India Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India; Homi Bhabha National Institute, Kalpakkam, Tamil Nadu 603102, India	Taylor and Francis Ltd.
289	Haseef T.K., Chakraborty G., Rajesh R., Mahalingam C.K., Albert S.K.	Characterization of hydrogen assisted cracking in modified 9Cr-1Mo steel welds using acoustic emission non-destructive technique	2021	10389759	Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakkam, India; National Institute of Technology, Sivakasi, India	Taylor and Francis Ltd.
290	Kumar A., Sangeetha D.N., Yuvraj R., Menaka M., Subramanian V., Venkaraman B.	Quantitative performance analysis of respiratory facemasks using atmospheric and laboratory generated aerosols following with gamma sterilization	2021	16808584	Radiological and Environmental Safety Division, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	AAQR Aerosol and Air Quality Research
291	Pranabkumar G., Kumar D., Jose J., Joseph Wilson S., Manjunath S.	Computed Tomography Control Method for Two-Axis Planar Serial Robotic Arm	2021	3772063	Homi Bhabha National Institute (HBNI), Kalpakkam Centre, Mumbai, TN, India; Reactor Design Technology Group, India Gandhi Centre for Atomic Research, Kalpakkam, India	Taylor and Francis Ltd.
292	Ajith V., Thirumovikarase S., Kumar A.	Quality Assurance of Thin-Walled Nickel Tubes by Eddy Current (EC) Testing Using the Discrete Wavelet Transform (DWT) Processing Methodology	2021	9349847	Nondestructive Evaluation Division, Metallurgy and Materials Group, India Gandhi Centre for Atomic Research, Kalpakkam, India	Beilweher Publishing, Ltd.
293	Behara A.K., Vishwanath R.N., Manohar David T., Prasad A.K., Ajikumar P.K., Mathews T.	Hydrogen sensing behavior of platinum and palladium functionalized silicon nanowalls	2021	9478396	Surface and Nanoscience Division, Materials Science Group, India Gandhi Centre for Atomic Research, HBNI, Kalpakkam, Tamil Nadu 603102, India; Department of Humanities and Sciences, Centre for Nanotechnology Research, Anna's University Institute of Technology, Vinayaka Mission's Research Foundation, Chennai, Tamil Nadu 600104, India	Springer Science and Business Media Deutschland GmbH
294	Ahmed N., Ramasamy P., Bhargava P.B., Sivadasan A.K., Amirthapandian S., Dhara S., Balaji C.	CrySTALLIZATION OF PEGVD GROWN Si nanowire and its characterization using optical Raman and EELS studies	2021	9574522	SN-Research Centre, Sri Sivasubramanian Nataraj College of Engineering, Kalpakkam, Tamilnadu 603110, India; Surface and Nanoscience Division, India Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, 603102, India; Materials Physics Division, India Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, 603102, India	Springer
295	Mahima Kumar M., Inshad K.A., Jena H.	Removal of Cu and Zn ²⁺ ions from simulated radioactive waste solutions using ZrO ₂ -A copolymerized from kaolin and their structural stability at high pressures	2021	13871411	Homi Bhabha National Institute-IGCAR composite, Kalpakkam-603102, India; Materials Chemistry Division, Materials Chemistry and Metal Fuel Cycle group, India Gandhi Centre for Atomic Research (IGCAR), Kalpakkam-603102, India	Elsevier B.V.
296	Praveena N., Jena H., Bera S., Kumar R., Jha S.N., Bhattacharya D.	Studies on chemical state of uranium in modified sodium borosulfate glass using X-ray photoelectron spectroscopy and X-ray absorption spectroscopy	2021	1491970	Homi Bhabha National Institute, BARC, Mumbai, India; Materials Chemistry Division, Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; IGCAR, Bhabha Atomic Research Centre Facility (BARCF), Kalpakkam, 603102, India; Atomic & Molecular Physics Division, BARC, Mumbai, India	Elsevier Ltd
297	Majumder V., Behera V., Banish N., Deng J., Shrivastava S.R., Anil A.J.	Robust-optimal integrated control design technique for a pressurized-water-type nuclear power plant	2021	1491970	School of Energy and Electronic Engineering, University of Portsmouth, Portsmouth, PO1 2EX, United Kingdom; School of Built Environment, Engineering, and Computing, Leeds Beckett University, Leeds, LS6 3QJ, United Kingdom; Reactor Control System Design Section, Bhabha Atomic Research Centre, Mumbai, 400185, India; India and Homi Bhabha National Institute, Mumbai, 400094, India; Probabilistic Safety, Reactor Shielding and Nuclear Data Section, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
298	Maji S., Kumar S., Sundararajan K.	Enhanced laser induced breakdown spectroscopy signal intensity in cobalt: An application for estimation of Cu and Cr in aqueous solution	2021	5848547	Analytical Chemistry and Spectroscopy Division, Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
299	Sankaranar D., Dey H.C., Abder S.K., Shaikh H., Arivindh David M., Murugesan S.	Characterization of Interfacial Microstructure and Mechanical Properties of the Diffusion Bonded CP-Ti to AISI 304L Stainless Steel	2021	9722815	Materials Development and Technology Division, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Mohamed Saifak A J College of Engineering, Sivakasi, Chennai, 603103, India; Physical Metallurgy Division, India Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer
300	Sreenivasulu B., Rajaswari S., Suresh A., Sivaraman N.	Demonstration of Aqueous Reprocessing of U-235 and Pu-239 Mixed Alloy Pellets Using an Epoxide Matrix with Tri-n-Butyl Phosphate (TBP) as the Extractant	2021	7366299	Materials Chemistry and Metal Fuel Cycle Group, India Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, India Gandhi Centre for Atomic Research, Kalpakkam, India	Beilweher Publishing, Ltd.
301	Thiruvickram S., Gomathy S., Padmanabhan P., Kankar L.	An enhancement in mechanical properties of grade 91 steel on microalloying with boron and nitrogen	2021	9603499	Materials Development and Technology Division, India Gandhi Centre for Atomic Research, Kalpakkam, India; Physical Metallurgy Division, India Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, Kalpakkam, India; Raja Ramanna Fellow, Department of Atomic Energy, Mumbai, India; Presently at AISC Mission Directorate, Noida, India	Taylor and Francis Ltd.

302	Kumar A., Chatterjee A.	Uniquely nonconservative results from one method of imperfection quantification in RCC-MR			2021	2328083	Indira Gandhi Center for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India; Department of Mechanical Engineering, Indian Institute of Technology, Kharagpur, Uttar Pradesh, 208016, India	American Society of Mechanical Engineers (ASME)
303	Chaitanya G.M.S.K., Kumar A.	Detection of subassembly bowing in a fast breeder reactor using glancing angle ultrasonic imaging			2021	906549	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, India; IGCAR, HBNI, Kalpakkam, 603102, India	Elsevier Ltd
304	Kumar Panda A., Dvarkar R., Singh A., Thirumangalakudi R., Parameswaran R.	Molecular dynamics studies on formation of stacking fault structures in FCC metals			2021	9270256	Metallurgy & Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, IGCAR Campus, Kalpakkam, 603102, India	Elsevier B.V.
305	Chitra N., Bala Soudar S., Subramanian V., Jose M.T., Bakaran R., Venkataratnam B.	Quantification of back diffusion in radon and thoron exhalation rate measurements			2021	1484820	Radiological and Environmental Safety Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu, 603102, India	Oxford University Press
306	Christopher J., Praveen C., Ganesan V., Reddy G.V.P., Albert S.K.	Influence of varying nitrogen on creep deformation and damage behaviour of type 316L in the framework of continuum damage mechanics approach			2021	1056795	Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute (HBNI), Kalpakkam, India	SAGE Publications Ltd
307	Rao C.V., Rost A., Venkatesan K.A.	Aggregation behavior of ionic liquid in molecular liquid medium: a dynamic light scattering study			2021	1496395	Training School Complex, Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Bellwether Publishing, Ltd.
308	Diya V., Ibeneser J., Achadesan R.	Mapping Obfuscation-Based PHY Security Scheme for Resource-Constrained Wireless Sensor Network			2021	2564602	Indira Gandhi Centre for Atomic Research Kalpakkam, Kalpakkam, India; Homi Bhabha National Institute, Mumbai, India	Taylor and Francis Ltd.
309	Maty R.K., Sundarajan T., Velasquez K.	An accurate interface reconstruction method using discrete circular arcs			2021	2712091	Department of Mechanical Engineering, IIT Madras, Chennai, India; Thermal Hydraulics Division, IGCAR, Kalpakkam, India	John Wiley and Sons Ltd
310	Bai G., Prasadguballi A., Nigudhen S.	Effect of Metallic Ion Species on Nitric Acid Corrosion of Type 304L Stainless Steel			2022	26623161	Homi Bhabha National Institute, Mumbai, 400094, India; Corrosion Science and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer Nature
311	Murthy P.S., Pandey V., Das A.	Potential of Metal Oxide Nanoparticles and Nanocomposites as Antibiofilms Agents: Leverages and Limitations			2022	28238027	Water and Steam Chemistry Division, Bhabha Atomic Research Centre, Tamil Nadu, Kalpakkam, India; Homi Bhabha National Institute, Annabhadrangudi, Mumbai, India; Nehru Memorial College, Tamil Nadu, Tiruchirappalli, Palaniyandam, India; Surface and Nanospace Division, Material Science Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India	Springer Science and Business Media B.V.
312	Prakash R.V., Pothurkar P., Mithipalipaty C.K.	Fatigue Crack Growth Study in Miniature Single Edge Notch Tensile Specimen Using Acoustic Emission Technique	Lecture Notes in Mechanical Engineering		2022	21954356 / 9789811695384	Department of Mechanical Engineering, IIT Madras, Chennai, 600016, India; HBNI IGCAR, Kalpakkam, 603102, India	Springer Science and Business Media Deutschland GmbH
313	Straim N., Kavya N., Usha N., Sharath D., Venkataratnam B., Menaka M.	Quantitative Analysis of Breast Thermograms Using BMD5 Denoising Method and Features Extraction	Lecture Notes in Electrical Engineering		2022	1876110 / 9789811636899	Center for Imaging Technologies, Ramiah Institute of Technology, Bangalore, India; Safety, Quality and Resources Management Group, IGCAR, Kalpakkam, India	Springer Science and Business Media Deutschland GmbH
314	Kumar V., Sharma M.K., Jebadesan R., Venkataratnam B., Sheel D.	Adversarial Training of Deep Convolutional Neural Network for Multi-organ Segmentation from Multi-sequence MRI of the Abdomen	2021 International Conference on Intelligent Technologies, ICINT 2021		2021	9781731E+12	HBNI, IGCAR, Kalpakkam, India; IIT Kharagpur, West Bengal, India; IIT Kanpur, CMA, West Bengal, India	Institute of Electrical and Electronics Engineers Inc.
315	Alhuri M., Muzia M., Kamradin M., Matine N., Moral R.	Electrochemical properties of silver nanoparticles decorated on vertical graphene nanosheets	Materials Today: Proceedings		2021	22147853	UNESCO-INNSA Africa in Nanoscience-Nanotechnology (UNANNSA), College of Graduate Studies, University of South Africa (UNISA), Pretoria, South Africa; Surface and Nanospace Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Nanoscience African Network (NANOSAPNET) Material Research Division, Ptshaba L.A.B.S-National Research Foundation, Somerset West, 7129, South Africa	Elsevier Ltd
316	Pattanyak S., Dash S.K., Sivakumar S., Sumanngam G.	Variable Reference Type-Speed Sensor for Acidic and Radiation Environment	Proceedings of 2021 5th International Conference on Condition Assessment Technologies in Electrical Systems, CAICES 2021		2021	978074E+12	IGCAR, Reactor Facilities Group, Kalpakkam, India; IGCAR, Fast Reactor Technology Group, Kalpakkam, India	Institute of Electrical and Electronics Engineers Inc.
317	Srihari S., Naveen Raj M., Velasquez K.	Thermal Hydraulic Investigations on Fast Reactor Fuel Subassembly Under Blocked Conditions Using Porous Body Approach	Lecture Notes in Mechanical Engineering		2021	21954356 / 9789811606977	Department of Chemical Engineering, TRIT, Trichy, India; PREG/IGCAR, Kalpakkam, India; NSRG/IGCAR, Kalpakkam, India	Springer Science and Business Media Deutschland GmbH
318	Kavya N., Straim N., Usha N., Sharath D., Raja P., Hiranath B., Venkataratnam B., Menaka M.	Acycrimetrical Analysis of Breast Thermal Images for Detection of Breast Cancer	Lecture Notes in Mechanical Engineering		2021	21954356 / 9789811601859	Center for Imaging Technologies, M.S. Ramiah Institute of Technology, Bangalore, India; Department of Surgery, M.S. Ramiah Medical College and Hospital, Bangalore, India; Safety, Quality and Resources Management Group, IGCAR, Kalpakkam, India	Springer Science and Business Media Deutschland GmbH
319	Ratnar R., Menaka M., Subramanian V., Venkatesan R., Arumugam S., Venkataratnam B.	Investigation of CT Linearity and Establishing the Theory Calibration Curve for the Gamma Ray CT System	Lecture Notes in Mechanical Engineering		2022	21954356 / 9789811690921	Radiological & Environmental Safety Division, Indira Gandhi Centre For Atomic Research, Kalpakkam, 603102, India	Springer Science and Business Media Deutschland GmbH
320	Krovidi S.C.S.P.K., Goyal S., Veerababu J., Nagshu A., Bhaduri A.K.	Viscoplastic Constitutive Parameters For Inconel Alloy-625 at 843A K	Lecture Notes in Mechanical Engineering		2022	21954356 / 9789811687235	Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Kalpakkam, 603102, India; Nuclear Fuel Complex, Kota Project, Ramnagar, 325011, India	Springer Science and Business Media Deutschland GmbH
321	Puri S., Subh M., Krishnakumar S., Mekaramthy C., Chandrasekhar S., Babu B., Sreedhar B.K., Nishan B.K., Mangam S., Svaraj P.	Realization of a Simple Mechanism to Simulate Core Subassembly Growth of FBR	Lecture Notes in Mechanical Engineering		2022	21954356 / 9789811605499	Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India	Springer Science and Business Media Deutschland GmbH
322	Kumar A., Nagaraja Bhat Y.V., Sreedhar B.K., Sundar Raj S.L., Mangam S., Svaraj P.	Design, Analysis and Development of Servo-Axis Scanner for Scanning Fast Breeder Reactor Core	Lecture Notes in Mechanical Engineering		2022	21954356 / 9789811605499	Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India	Springer Science and Business Media Deutschland GmbH
323	Kaishal N., Puri S., Suresh Kumar R., Mekaramthy C., Sreedhar B.K., Mangam S., Svaraj P.	Mechanical Behaviour of Special Type Seals Used in the FBR Application	Lecture Notes in Mechanical Engineering		2022	21954356 / 9789811605499	Homi Bhabha National Institute, Mumbai, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 603102, India	Springer Science and Business Media Deutschland GmbH
324	Surjajit P.V., Dong J., Vajpayee V., Becerra V.M., Shrivasth S.K., Arif A.J.	An arbitrary-order continuous sliding mode control technique for nonlinear PWR-type nuclear power plants			2022	1491970	School of Built Environment, Engineering and Computing, Leeds Beckett University, Leeds, L16 7QR, United Kingdom; Department of Automatic Control and Systems Engineering, The University of Sheffield; STN, United Kingdom; School of Energy and Electronic Engineering, University of Portsmouth, Portsmouth PO1 3DJ, United Kingdom; Reactor Control Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India; Homi Bhabha National Institute, Mumbai, 400 094, India; Probabilistic Safety, Reactor Shakedown and Nuclear Data Section, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
325	Chand M., Samanta S.K., Sharma V., Bera S., Sitom S., Usha Lakshmi K., Hemalatha V., Ashok Kumar G.V.S., Vijayalakshmi S., Acharya R., Kumar R.	Rapid estimation of the isotopic composition and total mass fraction of boron in enriched B ¹⁰ C samples for Indian fast reactor technology using external (n, α) particle induced Gamma-ray emission technique			2022	0168583X	Materials Chemistry and Metal Fuel Cycle Group, IGCAR, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Annabhadrangudi, Mumbai, 400094, India; Radiochemistry and Isotope Group, BARC, Mumbai, India; Keshavnagar Cheluvanur College, HSNR University, Mumbai, 400020, India	Elsevier B.V.
326	William Curry M., Mitaleni S., Amaldas E.P., Senthil Prasad M., Vinodh Rathan S., Ramasamy P., Mani A., Dharmak L.	Form energy-level shift of p-type AgBrS ₂ single crystal featuring semiconductor-to-metal transition at cryogenics			2022	2681242	SSN Research Centre, Sri Sivasubramanian Nadar College of Engineering, Tamilnada, Kalavakkam, 601110, India; Condensed Matter Physics Division, Materials Science Group, IGCAR, Tamilnada, Kalpakkam, 603102, India; Crystal Growth Laboratory, Laser and Functional Materials Division, Raja Ramanna Centre for Advanced Technology, Indore, 492013, India; HBNI, Training School Complex, Annabhadrangudi, Mumbai, 400094, India	Institute of Physics
327	P.V.A., Mishra S., Rajeev R., Design N., Venkatesan K.A., Anantharam R.	Hydrolysis of tri-butyl phosphate in α -dodecane using sodium hydroxide: Factors affecting the hydrolysis rates.			2022	1491970	Reprocessing R&D Division, IGCAR, Tamil Nadu, Kalpakkam, 603102, India	Elsevier Ltd
328	Neelkar P.P., Maheshwari S., Karim Y.M., Natarajan S., Gadgil Y.T., Bhat D., Dasgupta A., Lewis A.	Effect of nano-hydroxyapatite incorporation on fluoride-releasing ability, penetration, and adaptation of a pit and fissure sealant			2022	9607439	Department of Pediatric and Preventive Dentistry, Manipal College of Dental Sciences, Mangalore, Affiliated to Manipal Academy of Higher Education, Manipal, India; Department of Oral Pathology, Manipal College of Dental Sciences, Mangalore, Affiliated to Manipal Academy of Higher Education, Manipal, India; Physics department, Basic sciences and humanities, Madanapalle institute of technology & science, Adutha Pradeb, Madanapalle, India; Department of Metallurgical and Materials Engineering, National Institute of Technology, Sriranghal, India; Structural and Analytical Microscopy Section, Physical Metallurgy Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	John Wiley and Sons Inc
329	Thangam V., Rajalakshmi A., Chandrasekaran A., Anni B., Viswanathan S., Venkataratnam B., Bera S.	Determination of natural radioactivity in beach sands collected along the coastal area of Tamilnada, India using gamma ray spectrometry			2022	2366771	Department of Physics, Sri Sivasubramanian Nadar College of Engineering, Tamilnada, Kalavakkam, Chennai, 603110, India; Radiological Safety Division, IGCAR, Tamilnada, Kalpakkam, 603102, India; Radiochemistry Laboratory, IGCAR, Tamilnada, Kalpakkam, 603102, India	Springer Science and Business Media B.V.

330	Rakesh Roshan S.C., Yoshikanda N., Mohanji R., Lavanya K., Anes P., Kumar R.R., Rao T.V., Elin L., Parise J.B.	Atomically Lattice Thermal Conductivity in Rocksalt BiVA Compounds		2022	2374062	Pratt Institute University or Knowledge Technological, Telangana, Bazar, 58107, India; Department of Physics, National Institute of Technology Warangal, Telangana, Warangal, 506 004, India; Department of Geosciences, Center for Materials by Design, Institute for Advanced Computational Science, State University of New York, Stony Brook, NY, 11794-2100, United States; School of Aerospace and Mechanical Engineering, University of Oklahoma, Norman, OK 73019, United States; Jawaharlal Nehru Technological University (JNTU), Telangana, Hyderabad, 500085, India; Telangana Social Welfare Residential Degree College for Women (TSWRDCW), Telangana, Nizamabad, 501 002, India; Materials Physics Division, Indira Gandhi Centre for Atomic Research, Trambhambam, Kalpakkam, 603102, India; Department of Physics, Energy Materials and Devices Lab, National Institute of Technology Warangal.	American Chemical Society
331	Giri Varadarajan K., Velladurai P., Govindan R., Mundayakar Thomas J.	Structural and optical properties of a new Millite type Na ₂ Mg ₂ Si ₂ O ₁₀ Br ₂ phosphor		2022	1522735	Solid State Luminescence Laboratory, Department of Applied Sciences and Humanities, MIT Campus, Anna University, Tamil Chennai, India; Radiological Safety Division, HSEIG, ICAR, Trambhambam, Kalpakkam, 603102, India	John Wiley and Sons Ltd
332	Upadhyay N., Ravi Shankar A., Singh S.S., Anandkumar B.	Electrochemical noise studies on the effect of nitrogen on the pitting corrosion of stainless steel using wavelet analysis		2022	1478422X	Corrosion Science and Technology Division, ICAR, Kalpakkam, India; Hosi Bhabha National Institute, Mumbai, India; Information and Technical Services Division, AERB, Mumbai, India	Taylor and Francis Ltd
333	Preethi T., Santal K., Pachamuthi M.P., Bulakrishna R., Sundaraja B., Geetha N., Bellucci S.	Effect of Fe Doping on Photocatalytic Dye-Degradation and Antibacterial Activity of SnO ₂ Nanoparticles		2022	2636174	Advanced Materials Research Laboratory, Department of Physics, Ramani Annam Institute of Technology, Tamil Nadu, Sathyamangalam, 638401, India; Department of Physics, School of Advanced Sciences, VIT-AP University, Andhra Pradesh, Amaravati, 522237, India; Integrated M & Sensors Lab, Department of Chemistry, Ramani Annam Institute of Technology, Tamil Nadu, Sathyamangalam, 638401, India; Department of Biotechnology, Ramani Annam Institute of Technology, Tamil Nadu, Sathyamangalam, 638401, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Tamil Nadu, Kalpakkam, 603102, India; Department of Zoology (PG), PSG College of Arts & Science, Tamil Nadu, Coimbatore, 641014, India; INFN-Laboratori Nazionali di Frascati, Frascati, 00044, Italy	Hindawi Limited
334	Arbhajana B., Anantha S.K., Arjuna S.P., Bulakrishna V., Mangarasa V., Kalpana R.	A non-invasive IR sensor technique to differentiate parkinsonism ^o disease from other neurological disorders using automatic dysfunction as diagnostic criterion		2022	14248230	EHI Department, SRM Institute Of Science and Technology, Kattankulathur, 603203, India; Safety and Environmental Group, Department of Atomic Energy, ICAR, Kalpakkam, 603102, India; Department of Neurology, SRM Medical College Hospital and Research Centre, Kattankulathur, 603205, India	MDPI
335	Rajkumar G., Ponnessy V., Kannan G.V., Jose M.T.	Ternary type BaY ₂ ZrO ₅ :Eu ³⁺ deep-red phosphor for possible latent fingerprint, security ink and WLED applications		2022	2728842	Department of Physics, MIT Campus, Anna University, Chennai, Tamilnadu 600044, India; Radiological Safety Division, HSEIG, ICAR, Kalpakkam/Tamilnadu 603102, India	Elsevier Ltd
336	Rajani P., Chandra S., Ramasathan N., Sridharan K., Rao C.V.S.R.	Exploring the confinements of Dibruti Phosphonate (DBP): A matrix isolation infrared spectroscopic and density functional theory studies		2022	222860	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Trambhambam, Kalpakkam, 603102, India; Hosi Bhabha National Institute, Training School Complex, Mumbai, Anushaktinagar, 400094, India	Elsevier B.V.
337	Srivani V.V., Gupta S.K., Sreenivasulu B., Rao C.V.S.R., Suresh A., Swarnam N.	Luminescence properties of europium (III)-based metal-organic frameworks: Influence of varied organic linkers		2022	222860	Hosi Bhabha National Institute, Training School Complex, Anushaktinagar, Mumbai, 400094, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Radiochemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra - 400085, India	Elsevier B.V.
338	Kannanathi P., R.V. Paul Raj E., Rajesh P., Krishnamoorthy S., Doshi S.	Phononic based neutral-ionic binary molecular lattices systems for stabilizing the carmine methylene blue dye		2022	24670224	Department of Chemistry, Annamalai University, Trambhambam, Chidambaram, 608002, India; Water and Steam Chemistry Division, BARC Facilities, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Department of Chemistry, Faculty of Science, SriChandrasekharendra Saraswathi Veda Mahavidyalaya (Deemed to be University) (SCVMV), Eranthi, Trambhambam, Kanchipuram, 631561, India	Elsevier B.V.
339	Parvaty N.S., Govindraj R.	Atomic scale insights on the growth of BiFeO ₃ nanoparticles		2022	20452222	Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Tamil Nadu, Kalpakkam, 603102, India; Hosi Bhabha National Institute, Training School Complex, Anushaktinagar, Mumbai, 400094, India	Nature Research
340	Mohan S., Ramachandran R., David C., Anurendha G.	Positron annihilation spectroscopic study of intrinsic and non-irradiation induced vacancy defects in Zr-containing ODS steels with and without Al		2022	9258388	Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Elsevier Ltd
341	Rajadurai P., Ananthapadmas S., Kar G., Kumar D.S., Das A., Ananthi D.K., Ananthasivan K., Pangala B.K.	Investigations on ion irradiation induced modifications in Th 5f occupancy in thorium		2022	22315	Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Indira Gandhi Centre for Atomic Research, A.C.T Hosi Bhabha National Institute, Kalpakkam, 603102, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; University of Petroleum and Energy Studies (UPES), Uttarakhand, Dehradun, 248007, India; Reprocessing Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Institute of Physics, Sachivalaya Marg, Odisha, Bhubaneswar, 751005, India	Elsevier B.V.
342	Basu P., Sarangapani R., Venkatarani B.	QACDCP/CPC ^o M: A point kernel shielding code with features for handling bulk shields up to 100 mean free path and stratified shielding configurations		2022	3064549	Indira Gandhi Centre for Atomic Research, Trambhambam, Kalpakkam, 603102, India; Hosi Bhabha National Institute, Training School Complex, Mumbai, Anushaktinagar, 400094, India	Elsevier Ltd
343	Mariappan K., Nagisha A., Vasudevan M., Bhadraraj A.K.	Characterization of the cyclic deformation behavior of simulated HAZ and other constituent microstructural regions of P9 steel weldment		2022	1421123	Materials Development and Technology Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Hosi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
344	Ashwaryani K.N.V., Mangajana Rao P., Ar SM	Numerical investigations on dynamic characteristics of series coupled single-phase natural circulation loops		2022	12900729	Hosi Bhabha National Institute (HBNI), Training School Complex, Anushaktinagar, Mumbai, 400094, India; Safety Research Institute, Atomic Energy Regulatory Board (AERB), Tamil Nadu, Kalpakkam, 603102, India; Indira Gandhi Centre for Atomic Research (ICAR), Tamil Nadu, Kalpakkam, 603102, India	Elsevier Mason s.r.l.
345	Teena Mouni C., Fiyaz Khan P., Ravishankar C., Krishnan S.A., Albert S.K.	Addressing the banding phenomenon observed at intermediate strain rates to obtain true material response using ensemble empirical mode decomposition		2022	0146757X	Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Hosi Bhabha National Institute, Anushaktinagar, Mumbai, 400094, India	Elsevier B.V.
346	Anubree C., Krishna D.N.G., Philip J.	Synthesis of Ni doped iron oxide colloidal nanocrystal clusters using poly(N-vinylpyrrolidone) templates for efficient recovery of cefixime and methylene blue		2022	9277757	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBNI, Tamil Nadu, Kalpakkam, 603102, India	Elsevier B.V.
347	Bark S.K., Senapati A., Balakrishnan S., Ananthasivan K.	Synthesis and characterization of rare-earth doped aluminum phosphate glasses		2022	1491970	Indira Gandhi Centre for Atomic Research, Kalpakkam, Trambhambam, 603102, India; Hosi Bhabha National Institute, Training School Complex, Anushaktinagar, Mumbai, 400094, India	Elsevier Ltd
348	Suthana N.M., Geesana K., Ajikumar P.K., Dhara S.	Studies on tuning surface electronic properties of hydrogenated diamond by oxygen functionalization		2022	9259635	Hosi Bhabha National Institute, Training School Complex, Anushaktinagar, Mumbai, 400094, India; Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
349	Patra A., Mase P., Pokai S.R., Chakrabarty B., Rout C.S.	Enhanced charge storage performance of MnO ₂ based all-solid-state supercapacitor with vertical graphene arrays as the current collector		2022	2352122X	Centre for Nano and Material Sciences, Jain University, Jain Global Campus, Ramnagar, Bangalore, 562112, India; Selenium Division, Bhabha Atomic Research Centre, Trombay, Mumbai, India; Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research-Hosi Bhabha National Institute, Kalpakkam, Kalpakkam, 603102, India; High Pressure and Synchrotron Radiation Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, India; Hosi Bhabha National Institute, Mumbai, India	Elsevier Ltd
350	Padhi R.K., Ramakrishna P., Vinodkumar P., Rout A.	Energy transfer dynamics and photoluminescence properties of sol-gel synthesized doped-particle Ce ³⁺ (1+)/Th ⁴⁺ Bi ³⁺ Bi ³⁺ phosphor		2022	222313	Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Safety Research Institute, Atomic Energy Regulatory Board, Kalpakkam, 603102, India; Indira Gandhi Centre for Atomic Research, A.C.T of Hosi Bhabha National Institute, Kalpakkam, 603102, India; Department of Science & Humanities, MLR Institute of Technology, Hyderabad, 500043, India; Health Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	Elsevier B.V.
351	Rubun R., Vijayanand V.D., Sivarajakumar S.P., Sivaraman V.S., Prasad Reddy G.V.	On comparison of creep damage behaviour in two variants of titanium added 14Cr-15Ni stainless steel		2022	13596307	Department of Mechanical Engineering, National Institute of Technology, Tiruch, 620015, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Hosi Bhabha National Institute, Kalpakkam, 603102, India	Elsevier Ltd
352	Krishnan S.A., Nakhil R., Moitra A., Vasudevan M.	MEM based ductile damage parameter for fracture prediction in Mod.9Cr10Fe-TMo steel		2022	3080161	Materials Development and Technology Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Elsevier Ltd

353	Kumar Shukla P., Hemant Rao E., Mithunesh M., Venkatesan E., Polaki S.R., Kumar A., Kumar Das S., Ponraj D., Venkatesan B.	Experimental investigation on sodium compatibility of magnesium during cerium reduction in SR for core catcher application				2022	3064549	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
354	Kumar R., Dey H.C., Podhan A.K., Abhen S.K., Thakre G.G., Mahapatra M.M., Pandey C.	Numerical and experimental investigation on distribution of residual stress and the influence of heat treatment in multi-pass dissimilar welded joint of alloy 617/10Cr steel				2022	3080161	School of Mechanical Sciences, Indian Institute of Technology, Bhubaneswar, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Kalpana Centre for Manufacturing Innovation, KPFI, (Bharat Forge), Pune, India; Indian Institute of Technology Jodhpur, Karwar, 342037, India	Elsevier Ltd
355	Satapala V.S., Velsamy K., Patilak B.S.V.	Numerical study of coupled shock modes in a 3D vessel subjected to multi-directional excitations				2022	3064549	Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Department of Atomic Energy, Kalpakkam, 603102, India; Department of Applied Mechanics, Indian Institute of Technology Madras, Chennai, 600105, India	Elsevier Ltd
356	Narendran Y., Natesan K., Devan K., John Aral A., Vikram G.	Modeling of neutronics and thermal-hydraulic aspects during total instantaneous blockage of central fuel subassembly in a fast reactor				2022	3064549	Indira Gandhi Centre for Atomic Research, A CI of Homi Bhabha National Institute, Tamilnadu, Kalpakkam, 603102, India	Elsevier Ltd
357	Satoma B., Ramakrishna P., Balakrishnan S., Ananthasivan K.	Experimental determination of phase equilibria in the system FeAl ₂ Zr (0at% to 7.5 at% Zr) by using the differential scanning calorimetry, DSC, and XRD				2022	3645916	Fuel Chemistry Division, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Annaiahnagar, Mumbai, 400094, India; Safety Research Institute, Atomic Energy Regulatory Board, Kalpakkam, India; Reprocessing Group, IGCAR, Kalpakkam, India	Elsevier Ltd
358	Gajayathi V., Anuladas E.P., Vinod K., Sathyavarama A.T., Geetha Kumary T., Mani A.	Variation in the superconducting properties of Bi1.7Pb0.25Sr0.2Ca0.3010-F in proximity with Pt/Ca _{0.8} Sm0.2				2022	112378	Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Annaiahnagar, Mumbai, 400094, India	Elsevier Ltd
359	Gajayathi V., Anuladas E.P., T/2 G.K., Mani A.	Tuning of anisotropy in Bi-based high temperature superconducting thin films				2022	49690	Condensed Matter Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Annaiahnagar, Mumbai, 400094, India	Elsevier B.V.
360	Abhiram S., Anuladas E.P., Vinod K., Thamilkaran A.V., Bakaram R., Mani A.	Superconducting properties of Nb, NiN, and MoN thin film grown on topological insulator Bi1.9Sb0.05Se3: A comparative study				2022	9532048	Materials Science Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Annaiahnagar, Mumbai, 400094, India	Institute of Physics
361	Tan S., Manjivath Rao P., Venkatesan B., Rajagopal S.	Development of CFD based model for sodium flow boiling in narrow channel akin to SR fuel subchannel towards high void fraction regimes				2022	295493	Homi Bhabha National Institute, Training School Complex, Mumbai, Annaiahnagar, 400094, India; Reactor Design & Technology Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India	Elsevier Ltd
362	Mishra I., Nigamshetti R., Bida I., Thamilkaran A.V., Bakaram R., Kumar B.V.L., Verma M.B.	Development of SQUID based TEM system and its utilization for field survey at Tamilnadu, Andhra Pradesh, India				2022	926981	Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam, India; Atomic Minerals Directorate for Exploration and Research, Hyderabad, India	Elsevier B.V.
363	Sravani V.V., Gupta S.K., Sreenivasulu B., Rao C.V.S.R., Suresh A., Swaratan N.	Achieving tunable luminescence in rare earth free BiMOF3 through post-synthetic modification by judicious choice of organic linker				2022	9255467	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Material Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Radiochemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra 400085, India; Homi Bhabha National Institute, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra 400094, India	Elsevier B.V.
364	Chand M., Ashok Kumar G.V.S., Senthiladiva R., Usha Lakshmi K., Serajuddin M., Ramadevi G., Kumar R.	Analysis of coal ash samples from thermal power plants of India for their gallium content using NAA and EDXRF techniques				2022	969043	Analytical Chemistry and Spectroscopy Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute (HBNI), Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Mineral Processing Division, Bhabha Atomic Research Centre, AMD, Hyderabad, 500016, India	Elsevier Ltd
365	Satoma B., Jain A.	Experimental investigation of lattice thermal expansion and specific heat capacity of Cr ₂ As ₂ Ge ₂ novel phase intermetallic compound by HTXRD and DSC				2022	966975	Fuel Chemistry Division, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India; Homi Bhabha National Institute (HBNI), Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India	Elsevier Ltd
366	Nath D., Chakravarty S., Saravanan K., Debnath U.P., Dasgupta A., Arora A.Y.T., Bakaram R., Shekar N.V.C.	Thermally induced co-existence of superparamagnetism and spin-glass like behavior in out-of-plane anisotropic AuN thin film				2022	255408	UGC-DAE Consortium for Scientific Research, Kalpakkam Node, Kakkilam-603104, India; UGC-DAE Consortium for Scientific Research, Khadwa Road, Indore, 452001, India; Material Science Group, HBNI, IGCAR, Kalpakkam, 603102, India; University of Madras, Tamil Nadu, Chennai, 600005, India	Elsevier Ltd
367	Balsubramanian S., Prabakar K., Sundari S.T.	Length effect on the plastic deformation of SiO ₂ microcantilevers				2022	13698001	Surface and Nano Science Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, A CI of Homi Bhabha National Institute, Kalpakkam 603102, India	Elsevier Ltd
368	Namshree K., Polaki S.R., Rout C.S.	Molybdenum sulfide-selenides grown on surface engineered vertically aligned graphite-petal arrays for solid-state supercapacitors				2022	2352152X	Centre for Nano and Material Sciences, Jain University, Jain Global Campus, Jakkasandra, Ramannagar, Bangalore, 562112, India; Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Tamil Nadu, Kalpakkam, 603102, India	Elsevier Ltd
369	Rathia T.P., Sofia S., Anandkumar B., Philip J.	Long term antifouling performance of superhydrophobic surfaces in seawater environment: Effect of substrate material, hierarchical surface texture and surface-chemistry				2022	927757	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, Mumbai, India	Elsevier B.V.
370	Sengupta S., Gopakumar G., Brahmananda Rao C.V.S.	Insight into the complexation of heparan sulfate with tri-n-butyl phosphite: A computational study				2022	92614	Fuel Chemistry Division, Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Annaiahnagar, Mumbai, 400094, India	Elsevier B.V.
371	Rout A., Ramamohan N.	Fred phase sintering agent prevails the absence of organic phase Ligand: A sustainable extraction process for Bi ₂ Te ₃ /Au ₂ Te ₃ in an oxidized phosphonium ionic liquid				2022	1077322	Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
372	Srinivasan N., Krishna N.G., Shankar A.R., Krishnakumar S., Chandrasekhar S., Karki V., Ramani S., Philip J.	Influence of long term Sodium Exposure on the Corrosion and Tensile Properties of AISI Type 316L Stainless steel and modified WC-1Mo steel				2022	22315	Corrosion Science and Technology Division, Reactor Design and Technology Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Fuel Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India	Elsevier B.V.
373	Raoos S., Lathi B.B., Damodaran S.P., Philip J.	Tuning magnetic heating efficiency of cobalt ₂ nanoparticles of iron oxide nano-shells by varying the surfactant concentration during co-thermal synthesis				2022	1077322	Smart Materials Section, Corrosion Science and Technology Division, Materials Characterization Group, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, PIN 603102, India; Homi Bhabha National Institute, Training School Complex, Annaiahnagar, Mumbai, PIN 400094, India; Department of Chemistry, Sreea Anandadevartha Campus, Kannur University, Kerala, Kannur, PIN 670027, India	Elsevier B.V.
374	Vijay S.K., Prabhu R.K., Chandramoni V., Anthonysamy S., Jina A., Ghosh C., Mishra R., Dasgupta A.	Sintering of nanocrystalline boron carbide synthesized by the B2O3-sucrose precursor method				2022	2728842	Metal Fuel and Pyroprocessing Division, Metal Fuel Recycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam 603102, India; Formerly, Indira Gandhi Centre for Atomic Research, Kalpakkam 603102, India; HBNI, Kalpakkam, India; Physical Metallurgy Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam 603102, India	Elsevier Ltd
375	Anila I., Lathi B.B., Mathew M.J., Philip J.	Synthesis and magneto-structural properties of chitosan coated ultrathin cobalt ferrite nanoparticles for magnetic fluid hyperthermia in viscous medium				2022	2728842	McMahan Research Group, Department of Physics, S.B. College, Kerala, Changanassery, 686101, India; Maharastra Gandhi University, Kerala, Kottayam, 686506, India; Smart Materials Section, Corrosion Science and Technology Division, Materials Characterization and Engineering Group, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBNI, Tamil Nadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Annaiahnagar, Mumbai, 400094, India	Elsevier Ltd
376	Bhano V., Madhuri P.V.P., Harita M., Rao T.D., Vinod K., Rajaraj S., Bharaniger A.K., Mani A., Sarthaba B.	Neutron diffraction study and temperature variation of magnetic anisotropy in Bi substituted nickel ferrite				2022	2728842	Department of Physics, Institute of Science, GITAM (Deemed to be University), Andhra Pradesh, Visakhapatnam, 530045, India; Department of Science, Indian Institute of Information Technology Design and Manufacturing Kurnool (IIITDM) Kurnool, Andhra Pradesh, Kurnool, 518007, India; Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Annaiahnagar, Mumbai, 400094, India; UGC-DAE Consortium for Scientific Research, Mumbai Centre, BARC Campus, Mumbai, 400085, India; School of Physics, University of Hyderabad, Hyderabad, 500046, India	Elsevier Ltd

377	Ashrath B., Samantary D., Vandevan M.		Micromechanically informed viscoplastic simulations to optimize manufacturing of a nuclear grade stainless steel			2022	23524928		Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India	Elsevier Ltd
378	Aravind A., Srinivas C.V., Hegde M.N., Sehadri H., Mohapatra D.K.		Sensitivity of surface roughness parameters on the simulation of boundary layer winds over a complex terrain the Kalpa in western India			2022	1777991		Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; Environmental Assessment Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Environmental Survey Laboratory, Kalga, Karnataka, Kurvar, 561101, India; Safety Research Institute, Atomic Energy Regulatory Board, Kalpakkam, 603102, India	Springer
379	Thakar B., Chandra S., Kumar V., Gupta M., Deshpande U.P., Shetty N.V.C., Chakraborty S.		Thermal stability of the magnetic moment in amorphous carbon thin film - An experimental and ab-initio study			2022	9259655		UGC-DARE Consortium for Scientific Research, Kalpakkam Node, Kalamandya, 603104, India; University of Madras, Tamil Nadu, Chennai, 600005, India; Material Science Group, IGCAR, HBNI, Kalpakkam, 603102, India; UGC-DARE Consortium for Scientific Research, Khambhadra Road, Indore, 472001, India	Elsevier Ltd
380	Suresh Kumar T., Dash M.K., Nagabu A.		Deformation and damage assessment in type 316 LN stainless steel weld joint under isothermal and thermomechanical cyclic loading			2022	9215093		Homi Bhabha National Institute, Maharashtra, Mumbai, 400094, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; School of Metallurgy and Materials, University of Birmingham, URB15 2TT, United Kingdom	Elsevier Ltd
381	Bootharajan M., Kumar G.V.S.A., Sreenivasulu B., Senthilvelu K., Ganayak P.M., Pandey A., Kishor A., Sathya D.R., Bharat R.B., Rao C.V.S.B., Sundararajan K., Jayaraman V., Sivanan N.		Determination of uranium and plutonium in mixed oxide samples by X-ray methods and their comparison with potentiometry			2022	5848547		Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, India; Homi Bhabha National Institute (HBNI), Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; PFCE, Nuclear Recycle Board, Bhabha Atomic Research Centre, Kalpakkam, 603102, India; Fuel Fabrication, Integrated Nuclear Recycling Plant (O), Nuclear Recycle Board, Bhabha Atomic Research Centre, Tarapur, 401 502, India	Elsevier B.V.
382	Tripathi S., Srivastava V.V., Sreenivasulu B., Kumar S., Maji S., Suresh A., Bhojannamasani Rao C.V.S., Sivanan N.		ZIF-90 PSM Assisted Acid Resistance, Accelerated Sequestration and Selective Sensing of Actinides			2022	24680230		Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Homi Bhabha National Institute (HBNI)	Elsevier B.V.
383	Reddy S.S., Shetty B., Chakraborty S., Sibiati V., Bharanu G.M., Shetty N.V.C.		Study on high-pressure behaviour of spherical carbon black nanoparticles with core@-shell structure			2022	19764251		UGC-DARE Consortium for Scientific Research, Kalpakkam Node, Kalamandya, 603104, India; University of Madras, Chennai, 600005, India; Condensed Matter Physics Division, Materials Science Group, IGCAR, HBNI, Kalpakkam, 603102, India; High Pressure and Synchrotron Radiation Physics Division, Bhabha Atomic Research Centre, HBNI, Trombay, Mumbai, 400085, India	Springer
384	Thirukumar K., Mukhopadhyay C.K.		Acoustic emission signals analysis to differentiate the damage mechanism in the drilling of Al-5%SiC metal matrix composite			2022	9041624X		Non-destructive Evaluation Division, Metallurgy and Materials Group, IGCAR, India; Homi Bhabha National Institute, Tamil Nadu, Kalpakkam, 603102, India	Elsevier B.V.
385	Anami S., Das C.R., Murthy S.K., Albert S.K., Paingali B.B.		Influence of Nitrogen on Grain Size-Dependent Sequestration and Corrosion Resistance of Ti6Al4N Austenitic Stainless Steels			2022	9722815		Department of Materials Science and Metallurgical Engineering, Indian Institute of Technology Hyderabad, Telangana, Kandi, Sangareddy, 502285, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, Kalpakkam, India; Department of Chemistry, Indian Institute of Technology Hyderabad, Telangana, Kandi, Sangareddy, 502285, India	Springer
386	Reshmi Mohan P., Srinivas C.V., Yesubabu V., Rao V.R., Vimala Murthy K.P.R., Venkataratnam B.		Impact of SST on the intensity prediction of Extremely Severe Tropical Cyclones Fani and Amphan in the Bay of Bengal			2022	1698095		Health Safety and Environment Group, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India; National Atmospheric Research Laboratory, Gadanki, Tirupati, 517112, India; National Institute for Space Research, INPE, S.P. Sao Jose dos Campos, Brazil; Department of Meteorology and Oceanography, Andhra University, Visakhapatnam, 530003, India	Elsevier Ltd
387	Sureddy R.R., Desigan N., Venkatesan K.A., Sivanan N., Ananthanvan K.		Optimization of Process Variables for the Catalytic Reduction of UV1 over PSM2 using Hydroxyl as Reducing Agent at Design of Experiments Approach			2022	23656549		Reprocessing Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Mumbai, 400094, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India	John Wiley and Sons Inc
388	Dinakaran I., Ramesh R., Dey H.C., Bhaduri A.K.		Effect of activating flux on penetration and microstructure of nitrogen inert gas-welded pure titanium grade-2 plate			2022	2683768		Department of Mechanical Engineering Science, University of Johannesburg, Auckland Park Kingsway Campus, Gauteng, Johannesburg, 2008, South Africa; Department of Mechanical Engineering, PSEI College of Technology, Tamil Nadu, Coimbatore, 641004, India; Materials Development and Technology Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India	Springer Science and Business Media Deutschland GmbH
389	Meenakshi C., Venkataratnam P., Satish Srinivas K., Chandrasekaran S., Venkataratnam B.		Chromosome karyo ratio as a biomarker of DNA damage in cells exposed to high dose ionizing radiation			2022	13835718		Human Genetics Department, Sri Ramachandra Institute of Higher Education and Research, Chennai, 600116, India; Department of Radiation Oncology, Sri Ramachandra Institute of Higher Education and Research, Chennai, 600116, India; Health, Safety and Environmental Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
390	Saithu G., Nagabu A.		Twin interaction with E11 tilt grain boundaries in BiCC Fe: Formation of new grain boundaries			2022	9270256		Materials Development and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India	Elsevier B.V.
391	Karthik V., Kumar R.V., Anandhraj V., Padmaprabu C., Vijayarangan A., Jayaraj V.V., Venkataratnam C.N., Karan S., Raj D.		Irradiation behaviour of alloy D9 clad and wrapper in FBTR			2022	22315		Indira Gandhi Centre for Atomic Research (IGCAR), Tamilnadu, Kalpakkam, 603102, India; Homi Bhabha National Institute (HBNI), Tamilnadu, Kalpakkam, 603102, India	Elsevier B.V.
392	Jagadeesan D., Sompalli N.K., Mohan A.M., Rao C.V.S.B., Nagarajan S., Devisanjanam P.		ZrO2@Ag2O nanocomposites entrapped porous polymer nanofibers as high-performance visible light photocatalysts for the fast degradation of pharmaceutical pollutants			2022	1474905X		Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology (VIT), Tamil Nadu, Vellore, 620141, India; Homi Bhabha National Institute (HBNI), Indira Gandhi Centre for Atomic Research (IGCAR), Tamil Nadu, Kalpakkam, 603102, India	Springer Nature
393	Vijma G., Eswaran M., Manian S., Sajith S.D.		Fluid-structure coupled vibration characteristics of liquid immersed square channels within confinement			2022	3964549		Research Reactor Design and Projects Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Structural Mechanics Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
394	S.A.J. P.K., Ch.J.R.		Evaluation of microstructure and coating integrity of EB-PVD deposited bi-layers of Ti-6Al-4V and Ti-6Al-4V-0.5Zr-0.5Nb on bond coated superalloy			2022	2578972		Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Tamilnadu, Chennai, 601 193, India; Centre of Excellence for Energy Research, Sathyabama Institute of Science and Technology, Tamilnadu, Chennai, 600 119, India; Corrosion Science and Technology Division, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603 102, India	Elsevier B.V.
395	Prasanna T.N., Sadha C., Reddy P.S.		Hot dip aluminisation of 304L SS and P91 ferritic-martensitic steel 4E- Comparison of interface morphology and growth kinetics of reaction zones			2022	2578972		Physical Metallurgy Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India; Metallurgical and Materials Engineering Department, Vellore Institute of Technology, Vellore, 619014, India	Elsevier B.V.
396	Chandra S., Mahapatra N., Ramaniathan N., Sundararajan K.		Ultrashort O ₂ -O ₂ Plasmas Interactions in Non-mechanical Emission: Evidence Using Matrix Isolation Infrared Spectroscopy and Computational Methodology			2022	10895439		Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India	American Chemical Society
397	Kumar S., Maji S., Sundararajan K.		Enhanced luminescence of zinc-carbon(II)porphyrin(VI) complexes and energy transfer to Eu(III): a combined spectroscopic and theoretical investigation			2022	1479226		Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603, India; Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400, India	Royal Society of Chemistry
398	Kumar A., Bhattacharjee B., Sangrethia D.N., Subramanian V., Venkataratnam B.		Evaluation of filtration effectiveness of various types of face masks following with different sterilization methods			2022	15280837		Radiological and Environmental Safety Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Biomedical Engineering, SSN College of Engineering, Kalpakkam, India	SAGE Publications Ltd
399	Reddy H.R., Srinivas C.V., Venkataratnam B.		Observational analysis and numerical simulation of sea breeze using WRF model over the Indian southeast coastal region			2022	1777991		Environmental Assessment Division, Indira Gandhi Centre for Atomic Research, A Ct of Homi Bhabha National Institute, Tamilnadu, Kalpakkam, 603102, India	Springer

400	Anesh P., Venkatesan K., Suresh A.S., Gupta K.K., Ravindran T.R.	Sulfonic acid functionalized magnetic mesoporous silica for the magnetic assisted separation of uranium from aqueous solution	2022	2365711	Reprocessing Research and Development Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Maharashtra, Ambalimbetla, Mumbai, 400094, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India	Springer Science and Business Media B.V.
401	Reddy S.S., Shukla B., Srinivasa V., Bhalerao G.M., Shekar N.V.C.	Realization of diamond nucleation within the multi-walled carbon nanotubes matrix upon electron irradiation	2022	19764251	UGC-DARE Consortium for Scientific Research, Kalpakkam Node, Kalakkannur, 601104, India; University of Madras, Chennai, 600005, India; Condensed Matter Physics Division, Materials Science Group, IGCAR, HBNI, Kalpakkam, 603102, India; High Pressure & Synchrotron Radiation Physics Division, Bhabha Atomic Research Centre, Mumbai, Trombay, 400085, India	Springer
402	Chitra N., Chandrasekaran S., Srinivas C.V., Athulnigam S., Venkataran B.	Determination of soil porosity by a simple and novel technique of using neutron diffusion experiment and model	2022	2365711	Environmental Assessment Division, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India	Springer Science and Business Media B.V.
403	Ashwinth B., Shukar G., Samantary D., Sivas S.	The Role of Hot Deformation Texture on Dynamic Transformation of Austenite to Ferrite in a 9%Cr Alloy Steel	2022	10474838	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Indian Institute of Science, Bangalore, India	Springer
404	Kumar S., Maji S., Sundararajan K.	Method to Eliminate Fluoride Interference in the Spectrophotometric Estimation of Zirconium: Application to UO ₂ Zr Alloys	2022	37028	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, Mumbai, India	SAGE Publications Inc.
405	Sekar A., Bose S., Patiluk A.B., Jaya B.N., Rajagopal S., Samadhi I., Kumar H., Kumar R., Mythili R., Ghosh C., Dasgupta A., Albert S.	The Defining Role of Micro-Inclusions on the Mechanical Behavior of Laser-Welded Fully Austenitic Stainless Steel	2022	10755623	Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Maharashtra, Mumbai, 400076, India; Department of Mechanical Engineering, Indian Institute of Technology Bombay, Maharashtra, Mumbai, 400076, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India	Springer
406	Shankar A.R., George R.P., Philip J.	Evaluation of Thermal Cycling Performance of Plasma-Sprayed Alumina Coating on Inconel 600 with Different Bond Coats	2022	10599495	Corrosion Science and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer
407	Ramar S., Menika M., Venkataran B.	Dual Matrix Array Probe Based Phased Array Ultrasonic Testing for Inspection of Timonite® Weld Joints	2022	9722815	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Radiation Physics Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; HBNI and Distinguished Scientist and Director, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Springer
408	Manepalli S., Shankar A.R., Ningshen S., Philip J.	Some aspects of pitting corrosion susceptibility of Al-welded and thermally aged titanium-60/22Ti6888 weld metal	2022	9475117	Corrosion Science and Technology Division, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; Homi Bhabha National Institute, Tamil Nadu, Kalpakkam, India	John Wiley and Sons Inc
409	Nancy Anna Ananthasathy A., Murgesan S., Prabha E., Sivanandan S., Ganesanraj K.I.	Phase pure rhombohedral R3X ⁺ in Ag ₂ CO ₃ delafossite: Rietveld, selected area electron diffraction, X-ray photoelectron spectroscopy, and magnetic studies	2022	27820	Division of Materials Chemistry, Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, Mumbai, India	John Wiley and Sons Inc
410	Rajagendran M., Vasudevan M., Hossain N.	Study of the Microstructure, Mechanical Properties, Residual Stresses, and Distortions in Type 316L SS Stainless Steel Medium Thickness Plate-Weld Joints	2022	10599495	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; Materials Development and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, India; Mechanical Engineering Department, Maulana Mukhtar Ahmad Nadwi Technical Campus, Maharashtra, Sangamnerwar, Maharashtra, India	Springer
411	Narayana S.P., Kumar A., Pujala U., Subramanian V., Srinivas C.V., Venkatesan R., Athulnigam S., Venkataran B.	Theoretical simulation on evolution of suspended soot/nanoparticle aerosols characteristics in a closed chamber	2022	17385733	Environmental Assessment Division, Safety, Quality & Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Radiological & Environmental Safety Division, Safety, Quality & Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Korean Nuclear Society
412	T.P.R., Philip J.	Optimal condition for fabricating mechanically durable superhydrophobic titanium surface by rapid breakdown ozonolysis: Self-cleaning and bouncing characteristics	2022	1694352	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, Mumbai, India	Elsevier B.V.
413	Nandy M., Lahiri B.B., Philip J.	Magnetic anisotropy induced optical defect detection in carbon steel components: Effect of defect width variation on optical contrast	2022	218979	Smart Materials Section, Corrosion Science and Technology Division, Materials Characterization and Engineering Group, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBNI, Tamil Nadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India	American Institute of Physics Inc.
414	Anil Kumar P., Vinaya J., Prasad Reddy G.V., Nagavara Rao G.V.S.	On the improvement of tensile properties of thermo-mechanically treated India specific reduced activation ferritic-martensitic steel	2022	9215093	Department of Metallurgical and Materials Engineering, National Institute of Technology Warangal, Telangana, Warangal, 506004, India; Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Tamil Nadu, Kalpakkam, 603102, India	Elsevier Ltd
415	Naghenz F., Venkatesan E., Kumar B.E.V., Shukla P.K., Gupta R.K., Rao E.H., Pappala G., Ningshen S.	Degradation of thermally sprayed Al ₂ O ₃ coatings in electro-galvanic liquid-sodium and its mitigation by laser treatment	2022	2728842	Metallurgy & Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Safety Quality & Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Mumbai, 400 094, India; Raja Rameswara Centre for Advanced Research, Indore, 452013, India	Elsevier Ltd
416	Sathish P.K., Ramasathan N., Sundararajan K.	Cooperative post-valent pi-pi stacking versus dominant hydrogen bonding in POC12-dicyclic ether dimer characterized using matrix isolation infrared spectroscopy and ab initio computation	2022	222852	Homi Bhabha National Institute, Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Academic Press Inc.
417	Anesh P., Venkatesan K.A., Suresh A.S., Chandu M., Gupta R.K., Thangaraj R.R.	Efficient and selective adsorption of U(VI) by sulfonic acid modified low cost adsorbent	2022	338230	Reprocessing Research and Development Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Maharashtra, Mumbai, 400094, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, 603 102, Kalpakkam, India	De Gruyter Open Ltd
418	Bhayan C.A., Madupu K.K., Prabakar K., Das A., Potluri S.R., Saha S.K., Datta S.	A Novel Methodology of Using Nonsolvent in Achieving Ultraclean Transferred Monolayer MoS ₂	2022	21967150	Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, A CI of Homi Bhabha National Institute, Kalpakkam, 603 102, India; Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Physical Metallurgy Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India	John Wiley and Sons Inc
419	Paithan V., Smita Sundari G., Brahmananda Rao C.V.S., Enoch H.	Electrochemical and AC Conductivity Studies of PVA based Gel Polymer Electrolytes for Silver Ion Batteries	2022	9707077	Department of Physics, Kottara Lakshminah Education Foundation, Vaddewaram, 522502, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Centre for Advanced Energy Studies (CAES), Kottara Lakshminah Education Foundation, Vaddewaram, 522502, India; Department of Chemistry, Kottara Lakshminah Education Foundation, Vaddewaram, 522502, India	Asian Publication Corporation
420	Pruthi T., Sivan B.R., Hemadatha V., Saha M.A., Chandra S., Shaji D., Vijay S.K., Sundararajan K., Ramasathan N.	A simple spectrophotometric method for the determination of zirconium in UO ₂ Zr alloy samples in presence of fluoride ions	2022	2365711	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603 102, India	Springer Science and Business Media B.V.
421	Venivendan H., Hareesh R., Ningshen S.	Synthesis and characterization of chemical vapour deposited pyrolytic graphite	2022	406690	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Tamil Nadu, Kalpakkam, 603102, India	Elsevier B.V.
422	Rendu D., Srinivas C.V., Chandrasekaran S., Venkataran B.	Radiological consequence assessment for hypothetical nuclear explosion scenario using HotSpot	2022	1491970	Safety Quality and Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
423	Trinadh V.V., Manikandan P., Bera S., Brahmananda Rao C.V.S., Lakshmi Nageshwan T.S.	Thermodynamic properties over 300K-1200K for UO ₂ Zr alloy: two phase region of U-Al system: Knudsen Effusion Mass Spectrometric study	2022	223115	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Madra Regional Function Unit, DPS, Tamil Nadu, Chennai, 600006, India	Elsevier B.V.
424	Thakur B., Kumar V., Gupta M., Deshpande I.P., Chandra Shekar N.V., Chakravarty S.	Investigating the effect of thickness on the structural and magnetic properties of carbon thin film	2022	86223	UGC-DARE Consortium for Scientific Research, Kalpakkam Node, Kalakkannur, 601104, India; University of Madras, Chennai, Tamil Nadu 600005, India; UGC-DARE Consortium for Scientific Research, Khudosa Road, Indore, 452001, India; Material Science Group, IGCAR, HBNI, Kalpakkam, 603102, India	Elsevier Ltd

425	Harithash Y.V., Chandranathan P., Anandkumar B., Mohan T.V.K., Rangaraj S., Albert S.K., Anandkumar G.	Degradation of Incoel-800RT in molten FLiNaK salt at high temperatures			2022	9475117	Water and Steam Chemistry Division, Bhabha Atomic Research Centre, Kalpakkam, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, Anushakti Nagar Complex, Mumbai, India	John Wiley and Sons Inc
426	Pongachala A., Babu M.N., Ravi S., Nageshen S., Anandkumar G.	Effect of Environment on Fatigue Crack Growth Behavior of Type 316 LN Stainless Steel and its Weldments			2022	10599495	Corrosion Science and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Mumbai, 400094, India	Springer
427	Avinash C.S.S.S., Singh K., Rao E.H., Malavathi B., Das S.K., Kumar R.S., Lylla G., Ponraj D., Neelam B.K., Anandkumar S., Venkataratnam B.	One-of-a-kind experiments for design validation of microfluidic translation test loop			2022	3064549	Safety Quality and Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Reactor Design and Technology Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
428	Avinash C.S.S.S., Hemant Rao E., Malavathi B., Kumar Das S., Lylla G., Ponraj D., Anandkumar S., Venkataratnam B.	Experimental investigation on sodium leak behaviour through a pinhole			2022	3064549	Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
429	Patankar M.K., Kasinathan M., Bheera R.P., Jayanthi T., Dhara S.	A Simulation Approach to Study the Effect of 5C Polystyrene Factor on Sensitivity of Piezoresistive MEMS Pressure Sensor			2022	187690X	Real Time Systems Division, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Tami Nadu, Kalpakkam, 603102, India	Springer Science and Business Media B.V.
430	Beepriya T., Mythili R., Prasad Reddy G.V.	Correlation between microstructure and microchemical properties of NiCo ²⁺ /1Mo ferritic martensitic steel through instrumented indentation technique			2022	9215093	HBN, IGCAR, Kalpakkam, 603102, India; Metallurgy and Materials Group, IGCAR, Kalpakkam, 603102, India	Elsevier Ltd
431	B.R. V.K., Duggupta A., Ghosh C., Saha S.K.	Analysis of structural transformation in nanostructured Ti2O3 during high energy ball milling			2022	928308	Physical Metallurgy Division, Indira Gandhi Centre for Atomic Research, HBN, Kalpakkam, Tami Nadu, 603102, India	Elsevier Ltd
432	Mohanty B.N., Yavara R., Jena H., Panigra D.	Graphene Oxide as an Adsorbent for Ruthenium from Aqueous Solution			2022	23656549	Health Industrial Safety Division, Indira Gandhi Centre for Atomic Research, IGCAR Campus, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	John Wiley and Sons Inc
433	Patil M., Pokhi S.R., Rout C.S.	High performance asymmetric supercapacitors based on TiO ₂ /CNTs/MnO ₂ and electrodeposited spinel NiCo ₂ S ₄ nanostructures			2022	20462069	Centre for Nano and Material Science, Jain University, Jain Gohbi Campus, Jakkambad, Ramangaram, Bangalore, 562112, India; Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Materials Science Group, Tami Nadu, 603102, Kalpakkam, India	Royal Society of Chemistry
434	Chakraborty S., Rajitha R., Venkatesan V., Nageswara A., Madhusudan R., Anandkumar R., Ravindran T.R.	Elastic and phonon-mode anomalies with temperature in the energetic material C6H6N4O8			2022	24699950	Materials Science Group, Homi Bhabha National Institute (HBN), Indira Gandhi Centre for Atomic Research, Tami Nadu, Kalpakkam, 603102, India; Research and Innovation Centre, IIT Madras Research Park, Tami Nadu, Chennai, 600113, India; Department of Chemistry, National Institute of Technology Calicut, Calicut, Kerala, 673001, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tami Nadu, Kalpakkam, 603102, India	American Physical Society
435	Rama S.S., Prasad G.R., Rao J.P., Kumar V.S., Ganesan R., Jayaraman V.	Design, development, and instrumentation of isopiestic experimental setup			2022	346748	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tami Nadu, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Tami Nadu, Kalpakkam, 603 102, India	American Institute of Physics Inc.
436	Mohan P.R., Srinivas C.V., Venkataratnam B.	Convection-Permitting WRF Simulations of Tropical Cyclones Over the North Indian Ocean			2022	314553	Environmental Assessment Division, SJRMGC, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India	Birkhauser
437	Swin L., Pakhi G., Jain A., Ghosh S.	Electrochemical behavior of LiCl/KCl eutectic melts containing moisture as impurity. Part I: inert tungsten electrode			2022	15726557	Homi Bhabha National Institute (HBN), Indira Gandhi Centre for Atomic Research, Tami Nadu, Kalpakkam, 603 102, India; Metal Fuel and Pyroprocessing Division, Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tami Nadu, Kalpakkam, 603 102, India	Elsevier B.V.
438	Malyi U.K., Manović P., Joseph M., Swatanam N.S., Swatanam K.C., Singh C.K., Sarma R.M., Ajikumar P.K., Ganesamoorthy S.	Laser-induced breakdown spectroscopy for simultaneous determination of lighter lanthanides in acidic matrix in aqueous medium			2022	948547	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Raja Ramanna Fellow, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
439	Ramakrishna S., Srinivas C.V., Balach P.T., Venkatesan R., Venkataratnam B.	A WRF-FLEXPART simulation study of oil-fir plume dispersion-sensitivity to turbulent diffusion schemes			2022	1777971	Radiological Safety and Environment Group, SJRMGC, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Mumbai, 400094, India	Springer
440	Tripathy H., Saha C., Paul V.T., Thirumangalakudi R., Prasad T.N., Sundar R., Vijayarathnam N., Parameswaran P., Raja S.	High temperature thermophysical properties of spark plasma sintered tungsten carbide			2022	2634368	Physical Metallurgy Division, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India	Elsevier Ltd
441	Anand Kumar P., Sanjay Kumar N.R., Chandra Shekar N.V.	Structure ³ -compressibility correlation among MoS ₂			2022	223697	High Pressure Physics Section, Condensed Matter Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, HBN, Kalpakkam, Tami Nadu, 603102, India	Elsevier Ltd
442	Nagpal D., Duggu V., Kumar A., Gnanasekar K.J., Mallappa C.R.	Novel compositions of mesoporous spinel-type ternary metal oxides micropheres: Structural and electrical properties functionality			2022	9214526	Department of Physics, National Institute of Technology, Karaikudi, Karaikal, 751019, India; Research & Development Cell, Uthiranchal University, Uthiranchal, Uthiranchal, 280007, India; Chemistry Group, Indira Gandhi Centre for Atomic Research, National Institute of Technology, Karaikal, 609 609, India	Elsevier B.V.
443	Srinivas M., Ganesan K., Vijayakumar P., Gill A.S., Swatanam K.C., Singh C.K., Sarma R.M., Ajikumar P.K., Ganesamoorthy S.	Raman and Photoluminescence Spectroscopic Studies on Structural Disorder in Oxygen Deficient Ga ₂ Ti ₂ O ₇ :I Single Crystals			2022	2321300	School of Science and Humanities, Sriyathappa Institute of Science and Technology, Tami Nadu, Chennai, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, Tami Nadu, Kalpakkam, India; Homi Bhabha National Institute, Training School Complex, Anushaktinagar, Mumbai, 400094, India	John Wiley and Sons Inc
444	Saha D., Vihaya J., Kumar R.	Development of a Purification Method for 99Se Produced in a Fast Reactor Using a Supported Liquid Membrane			2022	4885085	MC&MPGC, Indira Gandhi Centre for Atomic Research, HBN, Kalpakkam, 603102, India	American Chemical Society
445	Pal A., Thirumangalakudi R., Krishna N.G., Ravi Shankar A., Philip J.	Studies on localized electrochemical activity of 304L SS-2.4 dissimilar joints using alternating current scanning-electrochemical microscopy			2022	1694332	Corrosion Science and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Kalpakkam, 603102, India	Elsevier B.V.
446	Panda A., Purvathy N.S., Govindaraj R., Vinod K.	Insights on the role of defects on the magnetic and magneto-electric coupling effects in nano BiFeO ₃			2022	9258388	Materials Science Group, Indira Gandhi Centre for Atomic Research, HBN, Kalpakkam, Tami Nadu, 603102, India; Department of Physics, S. K. C. G. College, Parakkalmandu, Odisha, 761200, India	Elsevier Ltd
447	Nairi M., Pathak A.K., Kabir J., Malviya D., Krupa V., Dasgupta A., Sen S.	Enhanced B-site cation ordering and improved magnetic properties: Role of A-site Bi substitution in La ₂ NiMn ₂ O ₇ double perovskites			2022	9258388	Department of Physics, Indian Institute of Technology Indore, Indore, 401055, India; Department of Physics, SUNY Buffalo State, Buffalo, NY, 14222, United States; Physical Metallurgy Division, Indira Gandhi Centre for Atomic Research & HBN, Kalpakkam, India	Elsevier Ltd
448	Malyi U.K., Manović P., Joseph M., Chandra M., Narayan G., Swatanam N.	Determination of intensity ratios of Mn, Co, Zn and Sr against U and Th peaks in simulated nuclear fuels by LA-ICPMS			2022	2679477	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Raja Ramanna Fellow, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Material Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Royal Society of Chemistry
449	Rout A., Kumar S., Ramaniathan N.	Characterizing the coordination approach of Eu(III) in cytosine nitrate ionic liquid - a comprehensive fluorescence spectroscopy study			2022	14779226	Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Royal Society of Chemistry
450	Venkata Srinani V., Sengupta S., Sreenivasulu B., Gopikumar G., Tripathy S., Chandra M., Brahmananda Rao C.V.S., Suresh A., Narayanan S.	Highly efficient functionalized MOF-LIC-1 for extraction of U(VI) and Th(IV) from aqueous solution: Experimental and theoretical studies			2022	14779226	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Tami Nadu, Kalpakkam, 603 102, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tami Nadu, Kalpakkam, 603 102, India	Royal Society of Chemistry
451	Rashta T.P., Thirumangalakudi R., Venkatesan R.S.C., Philip J.	A simple approach for fabrication of superhydrophobic titanium surface with self-cleaning and bonding properties			2022	9277757	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBN, Kalpakkam, 603102, India	Elsevier B.V.
452	Mahapatra N., Chandra S., Ramaniathan N., Sundarajan K.	Experimental proof for I ₂ and W ₂ adsorption dual nitrogen bonding in phosphor ³ chloride-atomoethane heterocycles: A combined matrix solution infrared and ab initio computational studies			2022	222860	Homi Bhabha National Institute, Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tami Nadu, 603102, India	Elsevier B.V.
453	Joshi S., Chandrasekhar S., Vijayarathnam I., Srinivasan K., Jayaraman V.	Epitaxially Grown Light Weight Gamma Ray Shielding			2022	195596	Radiological & Environmental Safety Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Health & Industrial Safety Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Materials Chemistry Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Maharashtra, Mumbai, 400094, India	National Institute of Science Communication and Information Resources

454	Rajan R., Ravindran T.R., Kommu N., Varjese A.A., Anees P., Venkatesan V., Sathvi V.	Phase transformation of heat-resistant energetic material HBN/PM studied by Raman spectroscopy and X-ray diffraction	2022	222461	Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam, 603102, India; Advanced Centre of Research in High Energy Materials (ACRHEM), University of Hyderabad, Prof. C. R. Rao Road, Uchchikond, Telangana State, Hyderabad, 500046, India; Research and Innovation Centre, IIT Madras Research Park, Tirumani, Chennai, 600113, India; High Pressure and Synchrotron Radiation Physics Division, Bhabha Atomic Research Centre, Mumbai, 400005, India; Department of Chemistry, National Institute of Technology, Calicut, Kozhikode, 673 601, India	Springer
455	Kumar M.M., Jena H.	Direct single-step synthesis of phase pure zirconium Na ⁺ P ₂ O ₇ hydroxy sulfate and analysis from coal fly ash and assessment of their Cs ⁺ and Sr ²⁺ removal efficiencies	2022	1387111	Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India; Materials Chemistry Division, Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
456	Dhankar S., Vailupathi D.S., Bhalekar G., Ganeshmouly S., Housin S., Baskar K., Singh S.	Growth of boronumillite Ca ₂ B ₂ O ₅ single crystals under air, oxygen and argon atmospheres using optical floating zone technique: a comparative study	2022	2504707	Crytal Growth Centre, Anna University, Chennai, 600025, India; USC-DAE CSR Kalpakkam Node, Kalpakkam, 603104, India; Low Temperature Studies and Crystal Growth Section, Condensed Matter Physics Division, Material Science Group, IGCAR, Kalpakkam, 603102, India; Homi Bhabha National Institute, Training School Complex, Mumbai, 400 094, India	Springer
457	Venkata Srinivas C., Raja Shekhar S.S., Rakesh P.T., Venkatraman B.	Design and simulation of a counter measure analysis system in a decision support system (ONDAS) for nuclear emergency	2022	1491970	Radiological & Environmental Safety Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; National Remote Sensing Centre, Balanagar, Hyderabad, 500017, India; Homi Bhabha National Institute, Mumbai, India	Elsevier Ltd
458	Ramakrishna P., Padli R.K., Mohapara D.K., Jena H., Panigrahi B.S.	Structural characterization, Gd ³⁺ Eu ³⁺ energy transfer and radiative properties of Gd(Eu) co-doped Li ₂ CO ₃ /ZnO/PMMA/NaClO ₄ /PMMA/PMMA glass	2022	9253467	Indira Gandhi Centre for Atomic Research, A CI of Homi Bhabha National Institute, Kalpakkam, Tamil Nadu 603102, India; Safety Research Institute, Atomic Energy Regulatory Board, Kalpakkam, 603102, India; Material Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Elsevier B.V.
459	Jule S., Wasekar N.P., Puridi P.K., Sastri S., David C., Kamrudin M.	Effect of grain size on the thermal stability of electrospun nanofibrous nickel: X-ray diffraction studies	2022	490690	Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; HBNI, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; International Advanced Research Centre for Powder Metallurgy and New Materials, IARCM, Hyderabad, 500 005, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Nuclear Fuel Complex, Hyderabad, 500 062, India	Elsevier B.V.
460	Madhavan T., Mitra S., Devrajaramani P., Nagarajan S., Rao C.V.S.B., Mohan A.M.	Probe anchored porous organic polymer monolithic architecture as optical sensor for ultra-trace analysis of Hg ²⁺ in water samples	2022	1387111	Department of Chemistry, School of Advanced Studies, Vellore Institute of Technology (VIT), Vellore, Tamil Nadu 622014, India; Homi Bhabha National Institute (HBNI), Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Tamil Nadu 603102, India	Elsevier B.V.
461	Nandy M., Lahiri B.B., Philip J.	Probing concentration and time dependent conformational changes in poly acrylate stabilised magnetic autoemulsion using magnetic chain-pulsed inter-droplet force measurement	2022	2215082	Smart Materials Section, Corrosion Science and Technology Division, Materials Characterization Group, Metallurgy and Materials Group, HBNI, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Elsevier B.V.
462	Manivannan A., Saravanan G., Ravibabu P., Chakraborty S., Joseph K., Jayaraman V.	Structural investigation and specific heat measurements on borosilicate, uranium and rare earths loaded borosilicate glasses	2022	22315	Homi Bhabha National Institute, IGCAR, Kalpakkam, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Elsevier B.V.
463	Seo S., Srinivas C.V., Venkatesan R.	A probabilistic model for the simulation of radioactivity transport through a heterogeneous porous medium	2022	1491970	Safety, Quality and Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Elsevier Ltd
464	Mishra V.K., Panda S.K., Sen B., Majhi M.P., Rao B.P.C.	Numerical analysis of forced convection heat transfer in a nuclear fuel storage vault	2022	12900729	Homi Bhabha National Institute, Mumbai, 400094, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai, 600016, India	Elsevier Masson s.r.l.
465	Francis M.K., Sathya B., Bhargava P.B., C.B., Ahmed N., Das A., Dhara S.	Ag nanowires based SERS substrates with very high enhancement factor	2022	13869477	SEN Research Centre, Sri Sivasubramanya Nadar College of Engineering, Kalakkattur 118, India; Surface and Nanoscale Division, Material Science Group, IGCAR, HBNI, Kalpakkam, 603102, India	Elsevier B.V.
466	Praveen Kumar K., Mylarwan P., Sarkar A., Issa, Samel H., Nagsha A., Swaroop S.	Residual stress distribution and elevated temperature fatigue behaviour of laser treated Ti-6Al-4V with a curved surface	2022	1421123	School of Mechanical Engineering, Vellore Institute of Technology, Vellore, India; Defence Metallurgical Research Laboratory, Hyderabad, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, India; Surface Modification Laboratory, School of Advanced Studies, Vellore Institute of Technology, Vellore, India	Elsevier Ltd
467	Nenkatakrishna A., Lakshminarayana A.K., Vasantharaja P., Vasudev M.	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	2022	9544062	Department of Mechanical Engineering, Sri Sivasubramanya Nadar College of Engineering, Sri Sivasubramanya Nadar College of Engineering, Chennai, India; Advanced Welding and Modeling Section, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, India	SAGE Publications Ltd
468	Hailal M., George R.P., Albert S.K., Philip J.	A new ternary composite steel rebar coating for enhanced corrosion resistance in chloride environment	2022	9506618	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam, Tamil Nadu 603102, India	Elsevier Ltd
469	Swin L., Pakhui G., Jain A., Ghosh S.	Electrochemical behaviour of LiClO ₄ /NCEC electrode containing moisture in an aprotic, Part II: Uranium electrode	2022	15726657	Homi Bhabha National Institute (HBNI), Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603 102, India; Metal Fuel and Postprocessing Division, Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603 102, India	Elsevier B.V.
470	Manokum M.K., Jena H.	Synthesis of nano-crystalline metal-A and metal-B from Indian coal fly ash, its characterization and performance evaluation for the removal of Cs ⁺ and Sr ²⁺ from simulated nuclear waste	2022	3043984	Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India; Materials Chemistry Division, Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier B.V.
471	Dhanodharan K., Das S.N., Sivakumar D., Ananthavran K.	Precise determination of plutonium in nuclear fuel process samples	2022	9106340	Reprocessing Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer
472	Myhill R., Kirana R., Singh J.H., Govindaraj R., Sinha A.K., Singh M.N., Suresh S., Vijayalakshmi M., Deb S.K.	Identification of Retained Austenite in 9Cr-1Mo-V-0.06Ta-0.13C Reduced Activation Ferritic Martensitic Steel	2022	20738994	Metallurgy & Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute of IGCAR, Kalpakkam, 603102, India; Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, 605009, India; Department of Physics, NIT Manipal, Manipal, 799004, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Department of Physics, University of Perovskite and Energy Studies, Deoband, 248007, India; Raja Ramanna Centre for Advanced Technology, Indore, 472013, India	MEPI
473	Anil B., Vigneshan S., Menaka M., Venkatesan R., Jose M.T., Venkatesan B.	Passive sampling technique for atmospheric 14C measurements	2022	2365711	Safety, Quality and Resource Management Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India	Springer Science and Business Media B.V.
474	Kavitha L., Parvitha T., Rongphy C., Kumar V.S., Maiti A., Gopi D.	Current-driven magnetization reversal dynamics and heater-like EM soliton propagation in biaxial anisotropic weak ferromagnetic nanowire	2022	892490X	Department of Physics, School of Basic and Applied Sciences, Central University of Tamil Nadu, Tamil Nadu, Tiruvarur, 610 005, India; The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy; Department of Physics, Prayur University, Tamil Nadu, Salem, 636 011, India; Condensed Matter Physics Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Department of Chemistry, Prayur University, Tamil Nadu, Salem, 636 011, India	Springer Science and Business Media B.V.
475	Patil S., Velaga S.K., Sampala V.S., Ananthavran K.	Evaluation of Separation Efficiency in a Tubular Bowl Centrifuge	2022	9307516	Andhra University, Department of Chemical Engineering, Visakhapatnam, India; Indira Gandhi Centre for Atomic Research, Reprocessing Group, Kalpakkam, India	John Wiley and Sons Inc
476	Alfhy George, Vaishnavi Krupa R.R., Myhill R., Dasgupta A., Kumar J.G., Reddy G.V.P.	Complex boron-oxo-structures and co-existing organophosphorus derivatives of preferentially grown carbon-nanotubes in long-term aged SS 316LN with varying uranium concentration	2022	222461	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam, 603102, India	Springer

477	Behara A.K., Viswanath R.N., Sharma N., Ajithnar P.K., Sankar S.T., Maheswari T.	Effect of nanowall bunching on surface reflectance and wetting behaviour of silicon nanowall architectures	2022	2352507X	Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam 603102 Tamil Nadu, India; Centre for Nanotechnology Research and Department of Biomaterials and Sciences, Anna Polytechnic Institute of Technology, Vinniyala Mission Research Foundation, Chennai-601104 Tamil Nadu, India; Materials Science Section, Materials Science Group, Raja Ramanna Centre for Advanced Technology, Indore-473013 Madhya Pradesh, India	Elsevier B.V.
478	Arvind A., Srinivas C.V., Srinivasa R., Hegde M.N., Seetha H., Mahapatra D.K.	Simulation of atmospheric flow field over the complex terrain of Krishi using WRF: sensitivity to model resolution and PBL physics	2022	1777971	Homi Bhabha National Institute, Mumbai, 400094, India; Environmental Assessment Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Radiation Safety Systems Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India; Environmental Survey Laboratory, Kasp, Komnaka, SRIAR, India; Safety Research Institute, Atomic Energy Regulatory Board, Kalpakkam, 603102, India	Springer
479	Nath D., Chakravarty S., Deshpande U.P., Azam A.V.T., Baskaran K., Sankar S.V.C.	Observation of novel coexistence of Kondo effect and room temperature magnetism in ANiAl/AN alloyed thin film	2022	15671739	UGC-DAE Consortium for Scientific Research, Kalpakkam Nodokulamudi, 603104, India, UGC-DAE Consortium for Scientific Research, Khandwa Road, Indore-452001, India; Material Science Group, HBNI IGC AR Kalpakkam 603102, India; University of Madras, Chennai, Tamil Nadu, 600005, India	Elsevier B.V.
480	Sreenivasa B., Parida S.K., Chandan K., Srinivas S., Jena H., Rao C.V.S.B., Suresh A., Jayaraman V., Sivaraman N.	Oxidation and dissolution behavior of UO ₂ alloys for space reprocessing applications	2022	1491970	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Elsevier Ltd
481	Manohar M., Sugumar P., Deepa R., Mathiyarasu R., Venkataran B.	Comparison of Indian BOMAB and ICRP voxel phantom for calibration of shadow shield whole body counter	2022	9698043	Safety, Quality and Management Group, Indira Gandhi Centre for Atomic Research, India	Elsevier Ltd
482	Rajewski J.R., Srinivas C.V., Venkataran B.	Impact of urbanization on boundary-layer parameters and mesoscale circulation over tropical coastal city, Chennai	2022	1777971	Health, Safety and Environment Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India; Kalpakkam, India	Springer
483	Dhanubalan D., Ananthu V., Akhila K.V., Bhattacharya S., Varadarajan E., Gnanasekhar S., Moolali Babu S., Natarajan V., Verma S., Srinivasa M., Louridoss S.	Studies on Schottky Barrier Diodes Fabricated using Single-Crystal Wafers of P-Ga ₂ O ₃ Grown by the Optical Floating Zone Technique	2022	1701972	Crysal Growth Centre, Anna University, Chennai, 600025, India; IIC-ITIM, DRDO, Chennai, 600113, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Department of Atomic Energy, Homi Bhabha National Institute, Mumbai, 400094, India; IISER, Lakhnau Road, Tumkur, Delhi, 110 054, India; Department of Applied Physics, KTH-Royal Institute of Technology, Stockholm, SE-104 64, Sweden	John Wiley and Sons Inc
484	Pan S., Sahu B.K., S.A., Dham S., Das A.	Growing AuNRs in a single step with NIR plasmon for negative SERS and plasmonic photothermal performance	2022	223697	Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam 603102, India; Material Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam 603102, India	Elsevier Ltd
485	Nandy M., Lahiri B.B., Philip J.	Intra-droplet force between magnetically polarizable Pickering oil-in-water nanodroplets stabilized with P-AZO ₂ nanoparticles: Role of electrostatic and steric-dipole interactions	2022	219797	Smart Materials Section, Corrosion Science and Technology Division, Materials Characterization Group, Metallurgy and Materials Group, HBNI, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu 603102, India	Academic Press Inc.
486	Kumar D., Singh R., Prakash U., Dobbala V.V., Laha K., Sakthivel T.	Reducing Anisotropy in High Yttria Ferritic Oxide Dispersion Strengthened Steels by Powder Forging	2022	10599495	Department of Forge Technology, National Institute of Foundry and Forge Technology (NIFFT) Ranchi, Barkhadan, SAROI, India; Department of Metallurgical and Materials Engineering, Indian Institute of Technology Ranchi (IITR), Utkarshabad, 247667, India; ALSC Mission Directorate, Gautam Budh Nagar, India; Mechanical Metallurgy Group (MIMG), Indira Gandhi Centre for Atomic Research (IGCAR), Tamilnadu, Kalpakkam, 603102, India	Springer
487	Lavanya S., Mahadevan S., Mukhopadhyay C.K., Kumar S.A.	Acoustic Emission during Press-Brake Bending of SS 304L Sheets and its Correlation with Residual Stress Distribution after Bending	2022	10599495	Non-Destructive Evaluation Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, IGCAR, Tamil Nadu, Kalpakkam, 603102, India	Springer
488	Bhadari A.K., Albert S.R., Nagesha A., Moitra A., Borah U., Reddy G.V.P., Laha K., Singh K., Das A.K.	Development and qualification of materials for Indian advanced ultra-supercritical coal-fired power plant	2022	2165392	Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Advanced Ultra-Supercritical Mission Directorate, E-S, E-Research-II, Udyog Vihar, Uttar Pradesh, Greater Noida, 201306, India; Corporate Research & Development, Bharat Heavy Electricals Limited, Trigram, Hyderabad, 500097, India; NTPC Energy Technology Research Alliance (NETRA), NTPC Limited, E-S, E-Research-II, Udyog Vihar, Uttar Pradesh, Greater Noida, 201306, India	ASTM International
489	Kumar Mishra R., Kumar H., Harman G.A., Albert S.K.	Wear performance of Ni-Cr-B-Si hardface coatings fabricated by cold metal transfer welding	2022	954062	Department of Mechanical Engineering, National Institute of Technology Sitapur, Sitapur, India; Metallurgy Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	SAGE Publications Ltd
490	Nimitha J., Rera S., Joseph M., Bhallamunda Rao C.V.S., Sivaraman N.	Quantitative determination of 117Cs and 90Sr in dissolved solutions without pre-separation by isotope dilution thermal ionization mass spectrometry	2022	2678477	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Raja Ramanna Fellow, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Royal Society of Chemistry
491	Deepthi J., Pichaiath K.C., Chandrasekar G., Sivaraman N.	Solubility studies on 2-hydroxyisobutyric acid in supercritical carbon dioxide: Solubility evaluation and application to acetone extraction	2022	13835866	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; M&M/FCC, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Department of Chemical Engineering, Pondicherry Technological University (Formerly known as Pondicherry Engineering College), Puducherry, 605014, India	Elsevier B.V.
492	Atuladas E.P., Abhirami S., Arani A.V.T., Baskaran R., Maiti A.	Anomalous de-phasing of quantum coherence phenomenon in superconductor topological insulator (NNBi _{1.5} SSb _{0.5}) ₂ heterostructure	2022	9214526	Condensed Matter Physics Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Homi Bhabha National Institute, Kalpakkam, 603102, India	Elsevier B.V.
493	Sarkar A., Yadav S.D., Nagesha A.	An EBSD based investigation on the deformation mechanism under HCP-creep interaction in a Ni-based superalloy (alloy 617A)	2022	9215093	Materials Development and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam/Tamil Nadu 603 102, India; Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur, West Bengal 721302, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu 603102, India	Elsevier Ltd
494	Rajagendran M., Kumar J.G., Vasudevan M.	Evaluation of tensile properties using uniaxial and ball indentation testing and correlation with microstructure variations across the 316L stainless steel weld joint	2022	9215093	Homi Bhabha National Institute, Mumbai, Maharashtra 400094, India; Materials Development and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam 603102, India	Elsevier Ltd
495	Bhagi S., Mandal M., Sahoo B.K., Laha K., Tanilfer S., Mitra R.	Investigation of non-classical creep behavior of Inconel 617 alloy at 700 °C and 800 °C through interrupted tests and microstructural characterizations	2022	9215093	Materials Engineering Division, CSIR National Metallurgical Laboratory, Jamshedpur, Barkhadan 831007, India; Metallurgical and Materials Engineering Department, Indian Institute of Technology, Kharagpur, West Bengal 721302, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu 603102, India	Elsevier Ltd
496	Rajan R., Ravindran T.R., Venkatesan V., Chandan S., Gupta M.K., Mittal R., Seshi V., Rajaraman N.	Pressure dependent phase transformations of energetic material 2,4'-dinitroanisole using Raman spectroscopy, X-ray diffraction and first principles calculations	2022	222660	Materials Science Group, HBNI, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India; Research and Innovation Centre, 5th Floor, IIT Madras Research Park, Tirumani, Chennai, 600113, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400094, India; Homi Bhabha National Institute, Anushaktinagar, Mumbai, 400094, India; High Pressure and Synchrotron Radiation Physics Division, Bhabha Atomic Research Centre, Mumbai, 400094, India	Elsevier B.V.
497	Singh N.K., Koppasamy S., Mohan A.M., Madala V.A., Rao C.V.S.B., Nigamjan S., Devasigamam P.	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	2022	3043894	Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, 622014, India; Homi Bhabha National Institute (HBNI), Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Tamil Nadu 603102, India	Elsevier B.V.
498	Tyagi A.K., Kannan S., Sivaraman N.	Evolution of chemistry programme at DAE	2022	113891	Chemistry Group, Bhabha Atomic Research Centre, Mumbai, 400 085, India; Radiochemistry and Isotope Group, Bhabha Atomic Research Centre, Mumbai, 400085, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India	Indian Academy of Sciences
499	Sreenivasa B., Bhallamunda Rao C.V.S., Suresh A., Sivaraman N.	Recovery of actinides from acidic waste solutions generated in research facilities using adsorption and extraction techniques	2022	2365711	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, Kalpakkam, 603102, India; Homi Bhabha National Institute, Kalpakkam, Kalpakkam, 603102, India	Springer Science and Business Media B.V.
500	Kumar Kovvadi S.C.S.P., Das C.R., Panayamorthy R., Chandrasekhar S., Manjappa K., Sreedhar B.K., Vaibhava J., Neelima B.K., Abhis S.K., Rudrathilak S.	Influence of high temperature sodium exposure on microstructure and material properties of AISI 40C stainless steel	2022	15727574	Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Inderscience Publishers

501	Panda A.K., Ramachandran D., Singh A., Thirumangalakudi R., Mydlik R.	The effect of orientation and pore size on nano mechanical behaviour of Ag thin films: a comparison between experiment and atomistic simulation			2022	14786435	Metalurgy Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Homi Bhabha National Institute, Kalpakkam, India	Taylor and Francis Ltd.
502	Krishnarathnam A.M.K., Kappasani P., Ghosh C., Priya R., Nigam S., Kumar D.D., Divakar R.	Metal-ceramic diffusion barrier nanocomposite coating on nickel based superalloys for corrosion and high temperature oxidation resistance			2022	1728842	Centre for Nanoscience and Nanotechnology, Centre of Excellence for Energy Research, Sathyabama Institute of Science and Technology, Chennai, 600119, India; Coating Department, PPG-India - Centre for Functional and Surface Functionalised Glass, Alexander Dubrook University of Technic, Trench, 91150, Sivakasi; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam 603102, India; Homi Bhabha National Institute, Kalpakkam 603102, India	Elsevier Ltd
503	Gaur A., Mathews T., Behera R.P.	Approach towards qualification of TCP/IP network components of PDR			2022	17385733	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Korean Nuclear Society
504	Sahoo K.C., Padmanabhan P., Laha K.	Multiaxial Creep Deformation and Influence of Different Precipitates on Creep Cavitational Failure of 9HfCo-2Si			2022	16599495	Department of Atomic Energy, Homi Bhabha National Institute, Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India	Springer
505	Sivakumar P., Govindan P., Ananthasivan K.	Assay of an alpha solid waste drum using passive neutron counting			2022	2365731	Reprocessing Group, Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam, 603102, India	Springer Science and Business Media B.V.
506	NirulaDevi G., Viswanath R.N., Sureth G., Shunmuganathan K.L., Mathews T., Suresh Kumar T.S.	Synthesis and Microstructure Influenced Anticorrosive Properties of Dispersed Nanoporous Gold Rods			2022	9722815	Centre for Nanotechnology Research, Department of Humanities and Science, Anna University Institute of Technology, Vayasky Mission TM , Research Foundation, Palayamkottai, Tamil Nadu, Chennai, 603 194, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Tamil Nadu, Kalpakkam, 603 102, India; Medical Materials Laboratory, Department of Metallurgical and Materials Engineering, Indira Institute of Technology, Tamil Nadu, Chennai, 600 036, India	Springer
507	Rajan G., Mishra S., Sreenivasulu B., Rajesh P., Suresh A., Raghunathan R.C.V.S., Srinivasan N.	Thermophysical properties of hexapropyl and tetrabutyl phosphoramide in n-dodecane			2022	22117156	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603 102, India; Fuel Chemistry Division, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603 102, India; Reprocessing Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603 102, India; Water and Steam Chemistry Division, BARC Facilities, Tamil Nadu, Kalpakkam, 603 102, India	Elsevier B.V.
508	Sunay K.T., Kumar N.N., Vasudevan M., Aravindhan B.	Parameter optimization and experimental validation of A-TIG welding of super austenitic stainless steel AISI 904L using response surface methodology			2022	9540489	Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli, India; Materials Development and Technology Group, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	SAGE Publications Ltd
509	Rajasekaran R., Lakshminarasimhan A.K., Vasudevan M., Rao P.V.	Stress Corrosion Cracking Susceptibility of 316LN Grade Stainless Steel Weld Joint in Boiling Magnesium Chloride Hexahydrate Environment			2022	15980623	Department of Mechanical Engineering, Sri Sivasubramanian Nadar College of Engineering, Kalavakkam, Tamil Nadu, Chennai, 603 103, India; Department of Mechanical Engineering, Sri Sivasubramanian Nadar College of Engineering, Kalavakkam, Tamil Nadu, Chennai, 603 113, India; Materials Development and Technology Division, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Tamil Nadu, Chennai, 603102, India; Advanced Welding and Modelling Section, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Tamil Nadu, Chennai, 603102, India	Korean Institute of Metals and Materials
510	Basu R., Mangamma G., Dhara S.	Initial Study of Strain-Induced Piezoelectricity in W02			2022	24701343	Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, A CI of Homi Bhabha National Institute, Kalpakkam, 603102, India	American Chemical Society
511	Panda S.K., Anshurath B., Vishu Anand P., Rajeev R., Venkatesan K.A., Ananthasivan K.	Comparative and inter-conversion analysis of dry and wet methods of particle size distribution using a new case of batch sedimentation			2022	1646612	Reprocessing Research and Development Division, Reprocessing Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India; Metal Forming and Tribology Section, Materials and Metallurgy Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603102, India	Springer Science and Business Media Deutschland GmbH
512	Devi G.N., Renjith R., Suresh G., Somasudri D., Rajaraman R., Vasanath R.N.	Composition and Microstructure of Ag/WO ₂ /SiO ₂ Alloy Specimens with Etching and Their Catalytic Activity to Decomposition of Hydrogen Peroxide			2022	1011372X	Centre for Nanotechnology Research, Department of Humanities and Science, Anna University Institute of Technology, Vayasky Mission TM , Research Foundation, Tamil Nadu, Chennai, 603 104, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, Tamil Nadu, Kalpakkam, 603 102, India; Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400 094, India	Springer
513	Basu P., Saravangani R., Datta D., Venkateshan B.	Optimization Studies of Elemental Composition of Composite Polymer for Neutron Shielding Using Fuzzy Design Analysis			2022	295450	Indira Gandhi Centre for Atomic Research, Safety, Quality Resource Management Group, Tamilnadu, Kalpakkam, 603102, India; Homi Bhabha National Institute, Tamilnadu, Kalpakkam, 603102, India; IISM Institute of Science Technology, Department of Mathematics, Tamilnadu, Kattankulathur, 603203, India	Taylor and Francis Ltd.
514	Rajasekaran M., Toppo A., Vasudevan M.	SCC behaviour of laser and hybrid laser welded stainless steel weld joints			2022	2670856	Senior Research Fellow, Homi Bhabha National Institute - Mumbai, India; Materials Development and Technology Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Anal Inclusion Centre, Safety, Quality and Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Taylor and Francis Ltd.
515	Naimi A., Deng J., Vagayee V., Becerra V., Shingih S.R., Aul A.J.	Nonlinear Model Predictive Control Using Feedback Linearization for a Pressurized Water Nuclear Power Plant			2022	21693836	School of Built Environment, Engineering and Computing, Leeds Beckett University, Leeds, LS1 2BE, United Kingdom; Department of Automatic Control and Systems Engineering, University of Sheffield, Sheffield, S10 2TN, United Kingdom; School of Energy and Electronic Engineering, University of Portsmouth, Portsmouth, United Kingdom; Bhabha Atomic Research Centre, Homi Bhabha National Institute, Mumbai, 400094, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Institute of Electrical and Electronics Engineers Inc.
516	Naimi A., Deng J., Shingih S.R., Aul A.J.	Fault Detection and Isolation of a Pressurized Water Reactor Based on Neural Network and K-Nearest Neighbor			2022	21693836	School of Built Environment Engineering and Computing, Leeds Beckett University, Leeds, United Kingdom; Bhabha Atomic Research Centre, Homi Bhabha National Institute, Mumbai, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Institute of Electrical and Electronics Engineers Inc.
517	Priya R.R., Arivudurai B., Shama G.K., Kumar R.A., Mahadevan S., Vasudevan M.	Influence of Hardening Models on the Estimation of Residual Stresses by Finite Element Modelling in Type 316LN Stainless Steel Weld Joints			2022	16599495	Homi Bhabha National Institute, Training School Complex, Anushaktinagar, Mumbai, 400094, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603102, India	Springer
518	Seel A.K., Mahadevan S., Thirumangalakudi S., Rao B.P.C.	A Study on the Scan Plan for Rapid Flow Detection by Eddy Current Non-Destructive Evaluation			2022	1772063	ICI Department, School of Studies in Engineering Technology, Gani Ghoshak Vaidyanathan College, Bapatpur, 495009, India; Non-destructive Evaluation Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, TN, Kalpakkam, 603102, India; Fuel Reactor Fuel Cycle Facility, Indira Gandhi Centre for Atomic Research, TN, Kalpakkam, 603102, India	Taylor and Francis Ltd.
519	Premalatha S., Prabhu E., Ganasekaran G., Rajitha P., Parthasarathy S., Jayaraman V.	Design and development of heater control circuit without temperature sensor for monitoring hydrogen in argon			2022	346748	Metallurgy Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Fuel & Materials Chemistry Group and Metallurgy Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Department of Atomic Energy, Government of India	American Institute of Physics Inc.
520	Anand A., Srinivas C.V., Hegde M.N., Seethaji H., Mohapatra D.K.	Impact of land surface processes on the simulation of sea breeze circulation and nitrate dispersion over the Kaiga complex terrain region near west coast of India using the Weather Research and Forecasting (WRF) model			2022	25901421	Homi Bhabha National Institute, Mumbai, 400094, India; Safety Research Institute, Atomic Energy Regulatory Board, Kalpakkam 603102, India; Environmental Assessment Division, Indira Gandhi Centre for Atomic Research, Kalpakkam 603102, India; Environmental Survey Laboratory, Kaiga Township, Karnataka 581400, India	Elsevier Ltd
521	Yadav S., Galkwad G., Chaturvedi A., Ananthasivan K., Tandon A.B., Jain R.	Fabrication of CeO ₂ microspheres by internal gelation process using T-junction droplet generator			2022	1646612	Department of Chemical Engineering, Institute of Chemical Technology, Maranga, Mumbai, 400 019, India; Fuel Chemistry Division, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India	Springer Science and Business Media Deutschland GmbH
522	Mahalingam C., Dharmadharan K., Sharma P.K., Raha V., Ananthasivan K., Rao R.V.S.	Spectrophotometric analysis of uranium concentration at trace level in PuO ₂ product			2022	2365731	Reprocessing Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, 603 102, India	Springer Science and Business Media B.V.
523	Vijayarathna T., Thirumangalakudi S., Rao B.P.C.	Comprehensive study on radial coil influence in looping segmented remote field eddy current probe for defect detection in ferromagnetic tubes			2022	16589599	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakkam, India; Non-destructive Evaluation Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	Taylor and Francis Ltd.
524	Panda S.K., Anand P.V., Rajeev R.P., Venkatesan K.A., Ananthasivan K.	Experimental investigation of sedimentation behaviour using certain oxidant particles in oxalic-acid medium			2022	19322135	Reprocessing Research and Development Division, Reprocessing Group, Indira Gandhi Centre for Atomic Research, Kalpakkam, India	John Wiley and Sons Ltd

525	Thakur B., Chandu Shekar N.V., Chandu S., Chakravarty S.	Effect of sp hybridization and bond-length disorder on magnetism in amorphous carbon- A first-principles study			2022	929635	UGC/DAE Consortium for Scientific Research, Kalpakam Node, Kalahandi, Tamil Nadu, 605104, India; University of Madras, Chennai, Tamil Nadu 600005, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakam, Tamil Nadu 603102, India	Elsevier Ltd
526	Agrawal S., Balasubramanian C., Mukherjee S., Kumar R., Madhav K.K., Dhan S.	Effect of heating rate and precursor composition on secondary phase formation during Cu ₂ ZnSnS ₄ thin film growth and its properties			2022	406090	Institute for Plasma Research, Gandhinagar, Gujarat 382428, India; Homi Bhabha National Institute, Anushaktinagar, Mumbai, Maharashtra 400094, India; Surface and Nanoscience Division, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakam, Tamil Nadu 603102, India	Elsevier B.V.
527	Mini C.T., Ravishanker C., Albert S.K., Parida P.K.	Effect of Prior Deformation Above M _d Temperature on Tensile Properties of Type 304 Martensitic Austenitic Stainless Steel			2021	10735623	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India	Springer
528	Ramanathan S., Boraharaj M., Kumar G.V.S.A., Sundararajan K., Mooliyil A.S.R., Chandu S., Jayaraman V.	Interaction of krypton and xenon with sodium and activated charcoal: Identification and modeling using gas chromatography and density functional theory			2022	223115	Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu 603102, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India	Elsevier B.V.
529	Chandru S., Ramnarayan N., Sundararajan K.	Is nitrogen in ammonia an elusive electron accepting ionogen in a protonically phosphoric bonded PC31NH ₂ dimer?			2022	92614	Homi Bhabha National Institute, Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu 603102, India	Elsevier B.V.
530	Rasitha T.P., Vanithakumari S.C., Nanda Ganaki Krishna D., George R.P., Srivastava R., Philip J.	Facile fabrication of robust superhydrophobic aluminum surfaces with enhanced corrosion protection and antifouling properties			2022	389440	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBNI/Kalpakam, India; Department of Chemical Engineering, Indian Institute of Technology, Madras, India	Elsevier B.V.
531	Rao C.J., Ningshea S.	High-temperature electrochemical corrosion evaluation of 2.25Cr1Mo alloy in enteric LACTE-KCl media ash			2022	1478422X	Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakam, India; Homi Bhabha National Institute University, Mumbai, India	Taylor and Francis Ltd
532	Sukhvi T., Symala Rao P., Parida P.K., Vasudevan M.	Transition of creep damage region in P91-A800-SS316LN dissimilar metals weld joint			2022	0167577X	Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakam, 603102, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakam, 603102, India	Elsevier B.V.
533	Kulkarni M.R., Kolpe T., Kumar D., Kere S.D., Sharma A., Sankhvi V., Lak A., Chakravorty G., Oberoi S.	Magnetic Pulse Welding of D9 Steel Tube to SS316LN End Plug			2022	9722815	Accelerator and Pulse Power Division, BTECL, Bhabha Atomic Research Centre, Mumbai, India; Department of Mechanical Engineering, IIT Guwahati, Assam, India; School of Mechanical Sciences, Indian Institute of Technology Gu, Guwahati, India; Materials Science Division, Materials Group, Bhabha Atomic Research Centre, Mumbai, India; Metallurgy and Material Group, IGCAR, Kalpakam, India	Springer
534	Shrestha G., Chandu S., Chandu Shekar N.V., Kalavathi S.	Evidence of spin-polarized Dirac cone in S ₂ C ₆ H ₆ : A DFT study			2022	9214526	Madanpalle Institute of Technology and Science, Madanpalle 571325, Chittoor Andhra Pradesh, India; Materials Physics Division, Material Science Group, Indira Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu 603102, India; Condensed Matter Physics Division, Material Science Group, Indira Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu 603102, India	Elsevier B.V.
535	Sarkar S., Rajswari S., Suresh A., Sivaraman N.	Hydrolytic Properties of Tri(2-methylbutyl) Phosphate and Tri-n-alkyl Phosphates in n-Dodecane/A ⁺ Comparative Investigation between Ultrasonated and Gamma Irradiated Solvent Systems			2022	7366299	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakam, India; Analytical Chemistry Spectroscopy Division, IGCAR, Kalpakam, India	Taylor and Francis Ltd
536	Sarkar S., Suresh A., Sivaraman N., KAwal V.	Studies on the aggregation behavior of mineral acid and Zr(IV) loaded Tri(2-methylbutyl) phosphate and tri-n-alkyl phosphate systems using single angle neutron scattering			2022	1496395	Department of Atomic Energy, Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakam, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, India	Taylor and Francis Ltd
537	Mohamed Khalil S.B., Ramalingam R., Karayannan S.K., Doshi M.H., Kumar R., Vijayakrishna S., Liu Madhuswan R., Aravachalam K.D.	Synthesis and characterization of polybenzofunctionalized graphitic hematite nanocomposite absorbent from an agro waste and its application for removal of Cs from aqueous solution			2022	456515	Center for Environmental Nuclear Research, Directorate of Research and Virtual Education, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Kanchipuram, Chennai, Tamil Nadu 601305, India; Department of Chemistry, Faculty of Engineering and Technology, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Kanchipuram, Chennai, Tamil Nadu 601305, India; Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakam/603102, India	Elsevier Ltd
538	Rajan G., Sreemvasulu B., Suresh A., Brahmananda Rao C.V.S., Sivaraman N., Gopikumar G.	Experimental and theoretical studies on solvent extraction of uranium(VI) with hexapropyl and heptapropyl phosphonamide extractants			2022	7366299	Homi Bhabha National Institute, Indira Gandhi Centre for Atomic Research, Kalpakam, India; Fuel Chemistry Division, Materials Chemistry Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakam, India	Taylor and Francis Ltd
539	Vaidel M., Jayakumar S., Philip J.	Rapid removal of rhodamine dye from aqueous solution using cation-surfactant complexes role of cation-surfactant interaction			2022	1932961	SMART Materials Section, Corrosion Science & Technology Division, Materials Characterization Group, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakam, India	Taylor and Francis Ltd
540	Ghosh S., Palak S.R., Mirelli A., Cesar C.S., Burg S., Jeong S.M., Oshiro K.	Nanoparticle-enhanced multifunctional nanocarbons/recent advances on electrochemical energy storage applications			2022	223727	Micro and Nanostructured Materials Laboratory/ Nanotech, Department of Energy, Politecnico di Milano, via Ponzio 34/3, Milano, 20133, Italy; Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, TN, Kalpakam, 603102, India; Institute for Materials Resource Management, Augsburg University, Augsburg, 86159, Germany; Department of Chemical Engineering, Chungshu National University, Chungshu, Cheongju, 28644, South Korea; School of Chemistry and Physics, QUT Centre for Materials Science, Queensland University of Technology (QUT), Brisbane, QLD 4000, Australia	Institute of Physics
541	Vaid S., Philip J.	Thermal and rheological properties of magnetic nanofluids: Recent advances and future directions			2022	18686	Smart Materials Section, Corrosion Science and Technology Division, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakam, India; Homi Bhabha National Institute, Mumbai, India	Elsevier B.V.
542	Srivastava K., Jayalakshmi G., Sundarvel B., Chandu Shekar N.V.	A Comprehensive Review on Ion Beam-Reduced Graphene Oxide: Tuning the Reduction with Optical, Electrical and Electronic Structural Properties			2022	1615215	UGC/DAE/CSIR Kalpakam Node, Tamil Nadu, Kalahandi, 603104, India; Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Tamil Nadu, Kalpakam, 603102, India	Springer
543	Rajakrishna K., Dhannakaran A., Varadaraj N., Ajay K.C., Venkatarao B., Jose M.T.	Thermal neutron sensitive inorganic compound loaded thin-film composite plastic scintillators			2022	9698043	Safety Quality and Resource Management Group, Indira Gandhi Centre for Atomic Research, Kalpakam, Tamil Nadu 603102, India	Elsevier Ltd
544	Kumar V., Parida M.K., Albert S.K.	The state-of-the-art methodologies for quality analysis of arc welding process using wild data acquisition and analysis techniques			2022	9758089	School of Electronics Engineering, Kaluja Institute of Industrial Technology, Bhubaneswar, 751024, India; Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpakam, 603102, India	Springer
545	Agrawal, A., Rangarajan, V., Patank, A.D.(Eds.)	BIJ	BIJ	978-3-030-79006-6	2021		Springer	
546	Bhattacharya, A.	Bayesian approaches in oncology using R and open BUGS			2021	9780367350015	CRC Press, Boca Raton	
547	Kulkarni, A. P., Divatia, J.V., Paril, V.P.	Objective Anesthesia Review: A Comprehensive Textbook for the Examinees, 5th Ed.			2021	9789390026485	Jaypee Health Science Publisher, New Delhi	
548	Kulkarni, A. P., Kothekar, A. T., Divatia, J.V.	Perioperative Critical Care, Jaypee Health Science			2021	9789390026598		
549	Miyadi, A.V., Chandiani, P., Datt, A.	Evidence Based Management of Cancers in India: NGS data analysis & a live molecular tumor board Vol. XVIII (G)			2021	978-93-82963-59-2	Tata Memorial Centre, Mumbai	
550	Miyadi, A.V., Kattumadakkal, G., Nyogi, D.M.	Evidence Based Management of Cancers in India: Inevitable oncology Vol. XVII (B)			2021	978-93-82963-59-2	Tata Memorial Centre, Mumbai	
551	Miyadi, A.V., Kishnabaty, R., Agarwal, J.P., Sinha, S., Ghosh-Lankar, S., Oetwal, V., Lankar, R.	Evidence Based Management of Cancers in India: technological advances in radiation oncology Vol. XVIII(D)			2021	978-93-82963-64-5	Tata Memorial Centre, Mumbai	
552	Miyadi, A.V., Mehta, N., Bhargava, P., Srinivas, S., Nayak, L., Oberoi, V.(Eds.)	Evidence Based Management of Cancers in India: Inevitable oncology Vol. XVII (B)			2021	978-93-82963-60-8	Tata Memorial Centre, Mumbai	
553	Miyadi, A.V., Patank, A.D., Agrawal, A., Rangarajan, V.	Evidence Based Management of Cancers in India: therapeutics of neuroendocrine tumors and prostate cancer Vol. XVIII (D)			2021	978-93-82963-62-2	Tata Memorial Centre, Mumbai	
554	C.R. Subramanian	Algorithms and Discrete Applied Mathematics	7th International Conference, CALDAM 2021, Ropar, India, Proceedings	7th International Conference, CALDAM 2021, Ropar, India, Proceedings	International	ISBN 978-3-030-67899-2	DEAS	Springer Nature
555	Arvind, V.	On Efficient Noncommutative Polynomial Factorization via Human Linearization	Proceedings for conference in honor of Prof. Subhagoo	RANDOM - The conference, 2022	International	2022	1433-8092	DEAS
556	Arvind, V.	On Efficient Noncommutative Polynomial Factorization via Human Linearization	Leibniz International Proceedings in Informatics (LIPIcs)	77th Computational Complexity Conference (CCC 2022)	International	2022	978-3-59777-241-9	DEAS
557	Datta, Anup	On limit theorem of zero functions	Proceedings of the 34th Conference on Formal Power Series and Algebraic Combinatorics (Banff2021)	14th Conference on Formal Power Series and Algebraic Combinatorics (Banff2021)	International	2022		DEAS
558	Anirudha Prasad	Set partitions, tableaux, and subpace profiles of normal diagonal operators	Seminaires Lotharingiens de Combinatoire - proceedings of FPSAC 2021	Seminaires Lotharingiens de Combinatoire - proceedings of FPSAC 2021	International	2021		DEAS
559	R. N. Radhakrishnan and Sankaran Viswanath	The saturation Problem for Refined Littlewood-Coefficients	Proceedings for LATTICE 2021, published by Proceedings of Science	LATTICE 2021, published by Proceedings of Science	International	2021		DEAS
560	Sayana Sharma	Bornonioms screening masses from 2+1 flavor QCD	Proceedings for LATTICE 2021, published by Proceedings of Science	LATTICE 2021, published by Proceedings of Science	International	2022		DEAS

561	Shabira Saba	Inferring the Laws of Finance from High-frequency Data	23rd Annual Conference of the Society of Statistics, Computer and Applications (SSCA)	International	2021		DMS	SSCA
562	Aryind Vani Partha Mukhopadhyay	Equivalence Testing of Weighted Automata over Parity Commutative Monoids	46th International Symposium on Mathematical Foundations of Computer Science (MFCS 2021)	International	2021		DMS	Schloss Dagstuhl - Leibniz-Zentrum für Informatik
563	Aryind V	CNF Satisfiability in a Subspace and Related Problems	16th International Symposium on Parameterized and Exact Computation (IPEC 2021)	International	2021		DMS	Schloss Dagstuhl - Leibniz-Zentrum für Informatik
564	Venkatesh Raman	Sublinear-Space Approximation Algorithms for Max ℓ -SATs	COCOON: Computing and Combinatorics Conference	International	2021		DMS	Srinivas Venkat
565	Sudhima Gupta	An Incremental Real-time Learning Framework for Sentiment Classification: Indian General Election 2019 - A Case Study	Proceedings of the IEEE 66th International Conference on Big Data Analytics (ICBDA) 2021	International	2021		DMS	
566	Venkatesh Raman	Fastest FPT Algorithms for Deletion to Pairs of Graph Classes	Fundamentals of Computation Theory 2021	International	2021		DMS	
567	Mouya Mahajan	On (Simple) Decision Tree Rank	Proceedings of 41st FSTTCS Conference, LIPIcs vol 213	International	2021		DMS	Srinivas
568	Saket Sarabhai	Diverse Collections in Matroids and Graphs	38th International Symposium on Theoretical Aspects of Computer Science (STACS 2021) + 1871 https://drops.dagstuhl.de/opus/volissue/2021/11871/6	International	2021		DMS	Schloss Dagstuhl LZ
569	Saket Sarabhai	A constant factor approximation for navigating through connected obstacles in the plane	Proceedings of the 2021 ACM-SIAM Symposium on Discrete Algorithms (SODA)	International	2021		DMS	Schloss Dagstuhl - Leibniz-Zentrum für Informatik
570	Saket Sarabhai	An FPT Algorithm for Elimination Distance to Bounded Degree Graphs	38th International Symposium on Theoretical Aspects of Computer Science (STACS 2021) + Leibniz International Proceedings in Informatics (LIPIcs)	International	2021		DMS	SIAM
571	Saket Sarabhai	Proton and decay spectroscopy of nuclei above Z=80	Schloss Dagstuhl - Leibniz-Zentrum für Informatik 2021	International	2021		DMS	Schloss Dagstuhl Leibniz-Zentrum für Informatik
572	P. Dey, D. Negi, R. Pal, P. C. Srinivasa, M. S. R. Lakkar, B. Das, F. S. Baboo, S. Bhattacharya, Brijesh Das, K. Rajguru Devi, R. Gali, U. Gang, S. S. Ghuge, E. Meguchi, S. Kumar, A. Kundu, G. Mukherjee, S. Murallathar, S. Nay, S. Nayak, Neelam, K. Rana, R. Rani, A. Sharma, S. Shitara, A. K. Singh, R. P. Singh, T. Tsvetk	Shell-model description of ^{90}Zr	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
573	S. S. Nayak, S. Basu, G. Mukherjee, S. Nandi, Shubor Das, Sheila Das, S. Basak, Soumik Bhattacharya, D. Kumar, D. Paul, K. Banerjee, Pratik Roy, A. Sen, S. Manna, T. Ghosh, Santar Rani, T.K. Rana, T. Bhattacharya, K. Pandey, S.S. Alam, S. Bhattacharya, C. Bhattacharya, S. Sumatra, S. Das, S. Chatterjee, R. Rani, S. S. Ghuge, U. Datta, H. Pal, P. Das, A. Bhattacharya, S. Sudhakar, S. De, S. Mukherjee, S. Chatterjee, S. Raju, S. Das, S. Ghuge, P. Pallar, R. Basak, M. A. Aaga, H. Ghosh, S. Ali	Evidence of collective excitations at low and medium spin in ^{90}Zr	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
574	S. Basak, D. Kumar, A. Saha, S. S. Alam, T. Bhattacharya, A. Sikdar, J. Nayak, S. Sumatra, S. Chatterjee, S. Das, S. Ghuge, S. Sharma, A. Adhikari, Y. Gupta, R. Rahman, A. Das, A. Gupta, S. Das, Soumik Bhattacharya, S. Basu, A. Bhattacharya, P. Das, G. Mukherjee, S. Bhattacharya, C. Bhattacharya, A. Bisoi, T. Ray, R. Rani, S. S. Ghuge, U. Datta, S. Chatterjee, G. Debnath, D. Gupta, and J. Doshi	Spectroscopy of ^{152}Sm	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
575	A. Sen, T.K. Ghosh, A. Choudhury, S. Bhattacharya, C. Bhattacharya, T.K. Rana, K. Banerjee, S. Kundu, S. Manna, D. Paul, R. Anney, M.M. Shaik, J.R. Meena, P. Roy, R. Pandey, G. Mukherjee, E.M. Kozulin, I.V. Pukhov, I.M. Hara, D.C. Sivara, N. Kumar, B.N. Joshi, Y.K. Gupta, G.K. Prajapati, K. Mishra, K. Ramachandran, A. Shivastava, B.V. John, P. Sengupta, K.S. Girdar, N. Suresh, C. Kavita, R. Bhakal, S. Pal	Study of shell effects in fusion fission dynamics	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
576	R. Anney, A. Sen, A. Naurov, T.K. Ghosh, MdMost Shukh, D. Paul, C. Bhattacharya, S. Kundu, S. Manna, G. Mukherjee, S. Nandi, R. Pandey, T.K. Rana, P. Roy, S. Mukhopadhyay, Raj Kumar Sankar	Quasi-fission in fragment mass distribution of ^{229}Fr	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
577	R. Shil, K. Banerjee, P. Roy, T.K. Rana, S. Kundu, S. Manna, A. Sen, G. Mukherjee, T.K. Ghosh, R. Pandey, A. Chakraborty, J. Subudhakar, D. Mondal, S. Mukhopadhyay, D. Paul, D. Paul, C. Bhattacharya, S. Bhattacharya	Isospin dependence of nuclear level density parameter a - ^{120}Sn mass region	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
578	S. Manna, C. Bhattacharya, T. K. Rana, S. Kundu, R. Pandey, A. Sen, T. K. Ghosh, Pratik Roy, G. Mukherjee, S. Mukhopadhyay, K. Banerjee, J. K. Meena, P. Karimkar, D. Paul, S. Datta, J. K. Sahoo, R. M. Saha, A. Saha, S. Bhattacharya	Effect of weak binding of ^{9}Be in complex fragment emission	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
579	Parul Karimkar, Santar Rani, T. K. Rana, S. Manna, R. Pandey, C. Bhattacharya, S. Bhattacharya, T. K. Ghosh, P. Roy, G. Mukherjee, S. Mukhopadhyay, Arjun Sen, J.K. Meena, S. Datta, A. K. Saha, R. M. Saha, J. K. Sahoo, M. Shaik, S. Nandi, D. Paul	Complex fragments emission in $^{20}\text{Ne} + ^{112}\text{In}_{120}\text{In}$	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
580	Debasish Mondal, S. Mukhopadhyay, Deepak Pandey, Sanjay Pal, Pratik Roy, Balamani Dey, Sija Bhattacharya, A. K. De, Soumik Bhattacharya, S. Kundu, S. Manna, T.K. Rana, R. Pandey, S. R. Banerjee, C. Bhattacharya	Entrance channel effect on the production of high-energy γ rays	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
581	S.S. Nayak, G. Mukherjee	HPGe detector simulation using SIMSPEC-G	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
582	R. Rani, S.S. Ghuge, R. Pal, G. Mukherjee, S. Bhattacharya, R.P. Singh, S. Maniathar, H. Tan	Development of a Framework for Analysis of Trace Data	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
583	R. Rani, S.S. Ghuge, G. Mukherjee, S. Chatterjee	Simulation of Doppler Shapes of Gamma-ray Transition Peaks Using the Velocity Profiles of Emitting Residues	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
584	S. Datta, A.K. Saha, P. Bhaskar, K. Banerjee, and C. Bhattacharya	Design and development of an internet interfaced remote control system for pulse shape discriminator	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	National	2021	978818372847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
585	Alpha Data	A combined approach to study the damage cascade of proton irradiated pure Nb: Experiment and MD simulation	6th International Virtual Conference on Nanostructuring by Ion Beams (ICNIB) 2021	International	2021		Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
586	Soma Dey	Characterization of ion induced microstructural changes in oxygen irradiated V_2O_5 - Ti	6th International Virtual Conference on Nanostructuring by Ion Beams (ICNIB) 2021	International	2021		Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
587	Jy Mukherjee, Dipak Bhosnik, Prasanta Karimkar	Investigation on chemical instability and optical absorption of ion bombarded Si surfaces	AIP Conference Proceedings 2369 (2021) 020038		2021		Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
588	R. Chatterjee and P. Dasgupta	Study of relativistic heavy ion collisions using photon anisotropic flow	65th DAE Solid State Physics Symposium (DAE-SSPS 2021)	National	2021		Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
589	R. Chatterjee	Electroweak Physics: Summary	10th International Conference on Hadron and Electromagnetic Probes of High-Energy Nuclear Collisions (Had Probe2020)	International	2021		Variable Energy Cyclotron Centre, Kolkata - 700 064, India	Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India

591	S. Thakur, S. K. Saha, P. Dasgupta, R. Chatterjee and S. Chatterjee	Correlation between initial spatial anisotropy and final momentum anisotropies in relativistic heavy ion collisions	The Ninth Annual Conference on Large Hadron Collider Physics (LHC2021)	International	2021		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
592	Pritha Prasad Nandy, Anindya Roy, Hemendra Kumar Pandey, Sarbajit Pal	Development of EPICS Enabled Analog IQ based Low Level RF Control System	IEEE EMENTech-2021	International	2021		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
593	Manish Kumar Bha., Piyush Babbar., Devesh Kumar, Anindya Choudhury., Iman Shaik., Saurav Kumbh, Tanayraj Bhattacharjee., Tumpa Bhattacharjee, Soanata Kumar Pal	Development and testing of Front End Electronics (FEE) for Granular charged-particle Multiplicity Filter Detector Array (GMDA) using VEECX-002 ASIC	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	65th DAE-BRNS Symposium on Nuclear Physics	National	2021	97881872847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
594	P. Babre, M.K. Jha, T. Bhattacharjee, S.K. Pal	Development & Characterization of Analog Module using VEECX02 ASIC for Neutron Flux Monitor	Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)	65th DAE-BRNS Symposium on Nuclear Physics	National	2021	97881872847	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
595	Siddhartha Dechowdhury, Souket Hajeer, Md. Zamil Abid Naser, Shouya Mukherjee, Arham Jain, Vaishali Nair	Transverse emittance measurement of 100 keV electron gun based on second moment distribution using televisual scan	Indian Particle Accelerator Conference	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
596	Dipa Pratin Datta, Siddhartha Dechowdhury, Md. Zamil Abid Naser, Hemendra Kumar Pandey, Tapas Kumar Mondal, Arham Kumar Jain, Vaishali Nair, Arup Bandyopadhyay	Optimization of frequency tuner, coupler and pick-up probes of the 1.7 GHz RF deflector cavity developed for the ANURIB facility	Indian Particle Accelerator Conference	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
597	Charanjit Das, Siddhartha Dechowdhury, Vaishali Nair	RFAC based adiabatic bending section for transporting 6 MeV/m multiple charge state RIBs	Indian Particle Accelerator Conference	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
598	H. K. Pandey, Siddhartha Dechowdhury, Vaishali Nair	Multi-coupler power feeding for 80 MHz end type radio frequency quadrupole (RFQ) Linac: Theoretical and Abstract experimental studies	Indian Particle Accelerator Conference	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
599	Mahava Bhattacharjee, Chinmay Giri, Sayed Masood, Sohan Hainda, Subhrajyoti Mitra, Disha Sanyal, Bakram Kumar Nayaz, Manas Mondal, Siddhartha Dechowdhury, Arup Bandyopadhyay, Vaishali Nair	Installation and Commissioning of 2.45 GHz ECR source for RIB Charge Breeder Line at VECC	Indian Particle Accelerator Conference	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
600	Debasis Sahaanandapatra, Animesh Goswami, Pradyut Sankar Chakraborty, Arup Bandyopadhyay	Measurement of beam profile in K130 Room Temperature Cyclotron at VECC	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
601	Pradyut Sankar Chakraborty, A Goswami, D Sahaanandapatra, A Dey, Parth S Chakraborty, S Ghosh, P K Behera, M Dash, R Kumar, R Mitu, T Patra, A Das, A Kumar, K D Rao, T Mishra, S Maji, A Bandyopadhyay, S Sen	K130 Room Temperature Cyclotron – an overview	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
602	Animesh Goswami, Pradyut Sankar Chakraborty, Arup Bandyopadhyay	Phase space characteristics of space charge dominated bunched beam in AVF cyclotron	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
603	Uttam Bhanis, Jayanta Debnath, Santanu Paul, Ankur Agrawal, Annu Datta, Jeddiah Pradhani, Malay Kanti Dey, Arup Bandyopadhyay	Revisiting the optics of K-500 Cyclotron extraction beam for efficient transport	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
604	Jeddiah Pradhani, Annu Datta, Jayanta Debnath, Uttam Bhanis, Malay Kanti Dey, Anjan Duttagupta, Arup Bandyopadhyay	Relative complication based on mechanical tolerance in superconducting cyclotron	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
605	Jeddiah Pradhani, Aditya Mondal, Subrata Saha, S Ghosh, Biswanath Mann, Nishit Kumar Das, Anjan Duttagupta, Arup Bandyopadhyay	Conceptual design of Compact Superconducting Medical Cyclotron for medical diagnostic application	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
606	Vinay Singh, Malay Kanti Dey, Arup Bandyopadhyay	Beam optics design of 4th channel of extraction line of K500 Superconducting Cyclotron	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
607	Jayanta Debnath, Malay Kanti Dey, Uttam Bhanis, Annu Datta, Jeddiah Pradhani, Santanu Paul, Arup Bandyopadhyay	Beam Dynamics Study for the design of an 18 MeV Medical Cyclotron	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
608	Annu Datta, Uttam Bhanis, Ankur Agrawal, Jayanta Debnath, Malay Kanti Dey, Arup Bandyopadhyay, Vinay Singh, Chinmay Nandy, Santosh Kumar Mishra, Sovadweep Roy, Anindya Roy, Siddhartha Vaishali Pradhani, Niraj Chaddha, Anuraj Dey, Subhrajyoti Pradhani, Prathish Singh Babu	Operational experience with the VECC-MC18 multi-crop ion source	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
609	Ankur Agrawal, Uttam Bhanis, Jayanta Debnath, Santanu Paul, Annu Datta, Chinmay Nandi, Malay Kanti Dey	Beam Optics Design for injection line of 18 MeV Medical Cyclotron	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
610	Ranjana Meisen, Nabbing Yalagonda	Development of Oxide coated and dispenser cathodes	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
611	Nabbing Yalagonda, Kishore Rama, Seethapathy Iluvasa	Development of drive system for turbo-molecular pump	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
612	Arup Bandyopadhyay	Status of super-conducting post-accelerator development for VECC RIB facility	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
613	Anil Sarkar, Simanta Bhattacharyya, Arup Bandyopadhyay	Present status of vacuum systems for VECC accelerators	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
614	Anindya Roy., Animesh Goswami, Pradyut Sankar Chakraborty, Arup Bandyopadhyay, Sarbajit Pal	MySQL based EPICS interface for Cyclotron Operation Database	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
615	Anindya Roy, Jayanta Debnath, Jeddiah Pradhani, Malay Kanti Dey, Arup Bandyopadhyay, Sarbajit Pal	EPICS interface with Cyclotron Model and Analysis tools in Superconducting Cyclotron	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
616	Niraj Chaddha., Shantanu Sahoo., Soanata Bhattacharjee., Santosh Kumar Mishra., Georanj Mukherjee., Anindya Roy., Chinmay Nandi.	Optimization of Dec-buncher and Puffer Drive System for K-130 Cyclotron	IPAC-2022	National	2022		Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
617	R. Borkhara, P. Karmakar, P. Pindil and A. Gupta	Study of magnetic nanowires of amorphous Co ₂ 96Fe ₄ O ₂ prepared by oblique angle deposition on nonmagnetic substrate.	Journal of Magnetism and Magnetic Materials 529 (2021) 167842	International	2021	0004-8853	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
618	Prasanta Karmakar	Nano pyramid array on Si by concurrent growth of parallel and perpendicular spatial wave and local angle-dependent sputtering	Applied Surface Science 552 (2021) 149017	International	2021	0169-4332	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
619	Srijisha Ghosh, Nilanjana Choudhary, Pradyip Roy, Sourav Sarkar	Thermomagnetic modification of the anomalous magnetic moment of quarks using the NfL model	Physical Review D 103 (2021) 116008	International	2021	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
620	Nilanjana Choudhary, Srijisha Ghosh, Sourav Sarkar, Pradyip Roy	Dilepton production from magnetized quark matter with an anomalous magnetic moment of the quarks using a three-flavor PNfL model	Physical Review D 103 (2021) 96021	International	2021	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
621	Suman Das, Gitan Sarwar, Raghunath Sahoo, Jitendra Alam	Study of QCD dynamics using small systems	The European Physical Journal C 57 (2021) 195	International	2021	1434-6044	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	

622	R. Mondal, Saha, K. Banerjee, S. Manna, S. Raut, T.K. Rana, N. Gayathri, G. Mukherjee, P. Kamalakar, T.K. Ghosh, P. Roy, R. Pandey, A. Sen, A. Saha and C. Bhattacharya	Development and characterization of polyethylene and deuterated polyethylene targets for nuclear physics experiments	Journal of Instrumentation 16 (2021) T07002	International	2021	1748-0221	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
623	Argha Dutta, Apu Sarkar, P. Mukherjee, N. Gayathri, Sumi Dey, S. Neogy, Archana Sengupta	Influence of proton irradiation on the microstructure and mechanical properties of Nb-1Zr-0.1C alloy	Journal of Nuclear Materials 571 (2021) 152221	International	2021	0022-3115	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
624	S. Thakur, S. K. Saha, P. Dasgupta, R. Chatterjee and S. Chatterjee	βT dependence of the correlation between initial optical anisotropy and final momentum anisotropies in relativistic heavy ion collisions	Nuclear Physics A 1014 (2021) 122263	International	2021	0375-9474	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
625	M. Colonna, Y. X. Zhang, Y. J. Wang, D. Cozzani, P. Danielewicz, C. M. Ko, A. Ono, M. B. Tsang, R. Wang, H. Wolter, J. Xu, Z. Zhang, E. W. Chen, G. G. Chang, H. Liang, Z. Q. Feng, M. Kim, Y. Kim, S. Jeon, C. H. Lee, B. A. Li, Q. F. Li, Z. X. Li, S. Malik, D. Ghoshchakrabarti, S. N. T. Seng, A. Sorenson, and F.S. Zhang	Comparison of heavy-ion transport simulations: Mean-field dynamics in a box	Physical Review C 104 (2021) 24003	International	2021	0556-2813	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
626	S. Malik, H. Pais and P. Guinnelli	Binding energy shifts from heavy-ion experiments in a nuclear statistical equilibrium model	The European Physical Journal A 57 (2021) 262	International	2021	1434-6001	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
627	S. Mukhopadhyay, Pratik Roy, Debansh Mondal, Deepak Prasad, Suraj Pal, Baharan Dey, Srijit Bhattacharya, A. Das, T. K. Rana, S. Kundu, J. Sathishan, C. Bhattacharya, and S. R. Banerjee	No signature of the saturation of giant dipole resonance width in medium-mass nuclei	Physical Review C 104 (2021) L011304	International	2021	0556-2813	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
628	G. C. Anupama, Sathish Chatterjee, Shikhar Bedarkar, Joydeep Ghosh, Rohan M. Goel, D. Indumathi and Tarun Bandyopadhyay	Big science in India	Nature Reviews Physics (2021)	International	2021	2522-5820	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
629	Sujan Kumar Roy, Somnath Mukhopadhyay, D. N. Basu	Universal relationship for magnetized white dwarfs	The European Physical Journal Plus 136 (2021) 467	International	2021	2190-5444	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
630	S. Manna, T. K. Rana, [...], S. Bhattacharya	Search for the Hoyle analogue state in ^{16}O	The European Physical Journal A 57 (2021) 286	International	2021	1434-6001	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
631	S. Malik, F. Guinnelli and D. Gruyer	Constraining the density dependence of the symmetry energy: the isospin transport ratio revisited	Journal of Physics G 49 (2021) 15102	International	2021	0954-3899	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
632	S. Mukhopadhyay, V.B. Chandrasekhar, S. Mohan, R.N. Singaraja, J. Saini and T.K. Nayak	Development and characterization of a large area silicon pad array for an electromagnetic calorimeter	Journal of Instrumentation 16 (2021) P09026	International	2021	1748-0221	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
633	A. Kumar, A. Agarwal, S. Chatterjee, S. Chatterjee, A.K. Debey, C. Ghosh, E. Nandy, V. Negi, S.K. Prasad, J. Saini, V. Singhal, G. Singh, S. Sridhar, J. de Cleveland, I. Depierre, D. Emschermann, V. Friese, J. Fritsch, M. Gammelski, N. Herrmann, D. Hutter, M. Kim, J. Leitner, P.-A. Louzon, C.J. Schuk, C. Sturm, F. Uhlig and W. Zabotney	Commissioning and testing of pre-seeded triple GEM prototypes for CBM-MACH in the nCBM experiment at the SIS18 facility of GSI	Journal of Instrumentation 16 (2021) P09002	International	2021	1748-0221	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
634	M. Rahaman, T. Bhattacharya and Jase Alam	Phenomenological Tsallis distribution from thermal field theory	International Journal of Modern Physics A 36 (2021) 2150154	International	2021	0217-751X	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
635	G. Sarwar, Md Hasanzaman, M. Rahaman, A. Bhattacharya and Jase Alam	The fate of nonlinear perturbations near the QCD critical point	Physics Letters B 820 (2021) 136583	International	2021	2469-9950	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
636	Md Hasanzaman, G. Sarwar, Mdhasan Rahaman, A. Bhattacharya and Jase Alam	Dynamical spectral structure of density fluctuation near the QCD critical point	The European Physical Journal A 57 (2021) 283	International	2021	1434-6001	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
637	M. Rahaman, S. K. Das, Jase Alam and S. Ghosh	Effect of magnetic screening mass on the diffusion of heavy quarks	International Journal of Modern Physics E 30 (2021) 2150093	International	2021	0218-3013	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
638	D. Sen, N. Alam and G. Chaudhuri	Properties of hybrid stars with a density-dependent bag model	Journal of Physics G 48 (2021) 10E201	International	2021	0954-3899	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
639	Vinay Singh, Joydev Lahiri, D.N. Basu	New thermonuclear reaction rate equations for radiative neutron capture	Acta Physica Polonica B 52 (2021) 453	International	2021	0887-4246	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
640	R. Chatterjee, P. Dasgupta	Ratio of photon anisotropic flow in relativistic heavy ion collisions	Physical Review C 104 (2021) 044907	International	2021	2469-9985	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
641	S. K. Singh, P. Ghosh and J. K. Nayak	Study of freeze-out dynamics of strange hadrons	Physical Review D 104 (2021) 34027	International	2021	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
642	Argha Dutta, P. Mukherjee, N. Gayathri, Sumi Dey, Suran Neogy & Tapasree Kundu Roy	Microstructural characterization of 160 MeV oxygen irradiated niobium	Philosophical Magazine 101 (2021) 1801	International	2021	1478-6435	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
643	Argha Dutta, Sumi Dey, N. Gayathri, P. Mukherjee, Tapasree Kundu Roy, Archana Sengupta, S. Neogy	Microstructural evolution of proton irradiated Fe-2.59Cr-1Mo characterized using synchrotron XRD (SXRD)	Radiation Physics and Chemistry 184 (2021) 109459	International	2021	0969-806X	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
644	A. Ray, P. Das, A. K. Sikdar, S. Pathak, N. Aquino, Mayra Lozano-Espinosa, and A. N. Antenyev	Electron capture nuclear decay rate under compression in a confined environment	The European Physical Journal D 75 (2021) 140	International	2021	1434-6079	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
645	A. S. Roy, K. Banerjee, P. Roy, S. Seth, T. K. Rana, A. Sen, D. Pradip, S. Kundu, T.K. Ghosh, G. Mukherjee, S. Manna, R. Pandey, D. Paul, R. Arora, S. Basu, V. Saini, P. C. Bhaui, T. Sathish, S. Mukhopadhyay, D. Mondal, S. Pal, S. Saha, M. Das	Measurement of light output response in scintillator based neutron detectors using quasi-monoenergetic neutrons	Journal of Instrumentation 16 (2021) P07045	International	2021	1748-0221	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
646	Bhaskar Singh, Gopal Mukherjee, S.K. Basu, Srijit Bhattacharya, Sathish Chatterjee, A. Chakraborty, A.K. Das, R. Govindharaj, A.K. Jain, Sudhakar Kumar, and Sakshaj Singh	Nuclear Data Sheets for A=219	Nuclear Data Sheets 175 (2021) 150	International	2021	0969-3752	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
647	D. Paul, A. Sen, T. K. Ghosh, Md. Masud Shukh, K. Ananya, Rajkumar Saini, Sumi Kundu, T. K. Rana, K. Banerjee, C. Bhattacharya, S. Bhattacharya, J. K. Meena, D. C. Biswas, B. N. Jothi, N. Kumar, G. K. Prajapati, Y. K. Gupta, R. Mahata, K. Ramachandran, and S. Pal	Proton fragment mass and fission angle distributions in the reaction $^{90}\text{Zr}+^{238}\text{U}$	Physical Review C 104 (2021) 24604	International	2021	2469-9985	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
648	S. Basak, S. S. Alam, D. Kumar, A. Saha, and T. Bhattacharya	Shape coexistence scenario in ^{130}Sm from a γ - γ fast-timing measurement	Physical Review C 104 (2021) 24230	International	2021	2469-9985	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
649	R. Banerjee, D.J. Hinde, M. Dasgupta, J. Sathishan, F. C. Simpson, D.Y. Jeong, C. Bannett, B.M. A. Swainson-Bland, E. Williams, L.-T. Bezzina, I.P. Carter, K.J. Cook, H.M. Albers, Ch.E. Dillmann, J. Khuyagbaatar, B. Kaidor, B. Lonnrot, C. Mokry, E. Pasard, J. Ranka, N. Schunck, C. Sempels, J.F. Smith, P. Thiele-Wigman, N. Trautmann, K. Voronov, J. Walsh, A. Yakushev	Sensitive search for near-symmetric and super-symmetric fusion-fission of the superheavy element Flerovium ($Z=114$)	Physics Letters B 820 (2021) 136601	International	2021	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
650	Somik Bhattacharya, Sheela Das, S. Bhattacharya, R. Banik, Shubir Das, Deepak Prasad, A. Choudhary, K. Banerjee, Debansh Mondal, S. Mukhopadhyay	Energy response and fast timing characteristics of $^{15}\text{F}^{15}\text{CeBr}_3$ scintillator	Nuclear Instruments and Methods in Physics Research A 1014 (2021) 165737	International	2021	0168-9002	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India

651	Deepak Pandey, Debashish Mondal, T. K. Ghosh, K. Mukhopadhyay, Suraj Pal, A. Sen, A. K. Saha, V. N. B. Sanyal, S. Chatterjee, S. Bhattacharya, A. K. Mohanty	Search for coherent bremsstrahlung from positronium fusion at 55meV deep underground laboratory	Physics Letters B 823 (2021) 136760	International	2021	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
652	Prithvika Roy, H. Pal, Sajad Ali, A. Mukherjee, S. Rajbhandi, S. Chakraborty, Soumik Bhattacharya, R. Banik, S. Nandi, S. Bhattacharya, G. Mukherjee, C. Bhattacharya, G. Gangopadhyay, S. Samanta, S. Das, S. Chatterjee, R. Raut, S.S. Ghogre, P.C. Srivastava, S. Jha, Bhanu Prakash, N. Rath, G.H. Bhal, J.A. Sheikh, A. Goswami	Three-photon multiplets in ^{116}Sn	Nuclear Physics A 1018 (2021) 122755	International	2021	0375-9474	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
653	Dipak Bhowmik, Joy Mukherjee and Prasanna Karimkar	Projectile mass dependent nano patterning and optical band gap tailoring of muscovite mica	Radiation Physics and Chemistry 187 (2021) 109568	International	2021	0969-800X	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
654	Sourama S, Sudipta Mishra, Partha P Ray, Joydeep Dhar, Disha Sanyal	Investigating the effect of applied bias on methylammonium lead iodide perovskite by electrical and positron annihilation spectroscopic studies	Journal of Physics D 54 (2021) 05502	International	2021	0022-3727	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
655	Sudipta Mishra, Disha Sanyal	Ab-initio studies of electronic and magnetic properties of titanium doped methylammonium lead iodide	Computational Condensed Matter 28 (2021) e08070	International	2021	2352-2143	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
656	S Roy, D Das, Taparee Kanda Roy	Two stage sintering behaviour of Er2O3 doped high performance ZnO varistors	Journal of the European Ceramic Society 41 (2021) 5184	International	2021	0955-2219	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
657	N Gayathri, P Mukherjee, Sudipta Mondal, Apo Sarkar, Udayanb Saha, S De, A Datta, Taparee Kanda Roy, Suman Neogy	Free irradiated microstructure and mechanical properties of pure V	Journal of Nuclear Materials 564 (2021) 15548	International	2021	0022-5115	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
658	Vinay Sakla, Vaishali Naik, Akh Chakrabarti and Ajay Roy	Interaction between single frequency two photon and one photon transitions in a V system	Optics Communication 498 (2021) 172717	International	2021	0303-4018	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
659	Sk Noor Alam, Victor Roy, Shaheer Ahmad, and Subhasis Chattopadhyay	Electromagnetic field fluctuation and its correlation with the participant plane in Au + Au and isobaric collisions at sPHENIX-200GeV	Physical Review D 104 (2021) 114031	International	2021	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
660	S. De, N. Gayathri, P. Mukherjee, Argho Datta & Manoj Kumar Mitra	A novel approach to analyse combined pre and post strain rate dependent phase transformation in uniaxially deformed ABR for analysis using XRD and EBSD	Philosophical Magazine 102 (2022) 112-136	International	2022	1478-6435	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
661	Mihai Mondal, Tanay Dey, Subhasis Chattopadhyay, Joygeeta Saha, Ziboyar Ahamed	Performance of a prototype bakelite RPC at GRI+ using self-triggered electronics for the CBM experiment at FAIR	Nuclear Instruments and Methods in Physics Research A 1025 (2022) 166042	International	2022	0168-9002	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
662	Sudhakar Thakur, Sumit Kumar Saha, Sk Noor Alam, Rupa Chatterjee & Subhasis Chattopadhyay	Longitudinal asymmetry in heavy ion collisions at RHIC	The European Physical Journal A 58 (2022) 13	International	2022	1434-6001	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
663	Sourav Mukhopadhyay, Vinay B. Chandrasekhar, Sanjay Mishra, Ratan K. Saragathi, Joginder Saini, Tapas K Nayak	A wide swing charge sensitive amplifier for a prototype Si-W EM calorimeter	Nuclear Instruments and Methods in Physics Research A 1028 (2022) 166367	International	2022	0168-9002	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
664	Subhasis Ghosh, Prasanna Karimkar	Effects of MeV ion induced heating on secondary electron emission from Si surface and estimation of local temperature	Nuclear Instruments and Methods in Physics Research B 516 (2022) 1-7	International	2022	0168-583X	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
665	Setya Samrta Nayak, G. Mukherjee	Study of shape evolution of nuclei with $40 \leq Z \leq 82$ and $50 < N < 60$	Nuclear Physics A 1023 (2022) 122449	International	2022	0375-9474	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
666	Nilanjana Choudhury, Arjya Mukherjee, Saugha Ghosh, Sourav Sarkar, Pradyip Roy	Insignificance of the anomalous magnetic moment of the quarks in presence of chiral imbalance	The European Physical Journal A 58 (2022) 82	International	2022	1434-6001	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
667	A.K. Hamzah, Sujit Kumar, Umashree Dey, Rajayanthan Ray	Multiple low-energy excitons and optical response of β -double perovskite $\text{Ba}_2\text{Zr}_2\text{Ti}_2\text{O}_{16}$	Physica B 637 (2022) 413856	International	2022	0921-4526	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
668	Nilanjana Choudhury, Saugha Ghosh, Sourav Sarkar, Pradyip Roy	Dilepton production from chirally asymmetric matter	Physical Review D 105 (2022) 96001	International	2022	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
669	Saugha Ghosh, Nilanjana Choudhury, Sourav Sarkar, Pradyip Roy	Electromagnetic spectral functions in hot and dense chirally imbalanced quark matter	Physical Review D 105 (2022) 96005	International	2022	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
670	G. Surwar, Md. Hasnainjama, T. Bhattacharya, M. Rahuman, A. Bhattacharya and Jane Alam	Nonlinear waves in a hot, viscous and non-extensive quark-gluon plasma	The European Physical Journal C 82 (2022) 189	International	2022	1434-6044	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
671	D. Mukhopadhyay, Jane Alam and R. Kumar	The Polyakov loop dependence of bulk viscosity of QCD matter	Nuclear Physics B 974 (2022) 119405	International	2022	0550-3213	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
672	S. K. Das, Jane Alam, S. Phamati and V. Greco	Aerobic virus transmission under different weather conditions	AIP Advances 12 (2022) 15019	International	2022	2158-3226	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
673	J Sudhakar, S A Gidani, W Nazarewicz	Theoretical description of fission yields: Toward a fast and efficient global model	Physical Review C 105 (2022) 14619	International	2022	0556-2813	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
674	N.K. Rai, A. Gaidhi, M.T. Smitul Kumar, S.K. Roy, N. Suresh, M. Kumar, G. Kar, D. Aora, K. S. Gokul, A. Rangin, P. Sagar, T. K. Ghosh, Bhanu Subrahman, B. K. Nayak, N. Bhaudikar, Deb. Saumyaji Bhowa, A. Chakraborty, A. Pathari and Ajay Kumar	Inference on fusion timescale from neutron multiplicity measurement in $^{18}\text{O} + ^{184}\text{W}$	Journal of Physics G 49 (2022) 3503	International	2022	1361-6471	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
675	Shubir Dair, Soumik Bhattacharya, S. Bhattacharya, R. Banik, S. Nandi, G. Mukherjee, S. Rajbhandi, S. Das Gupta, Sajad Ali, S. Chakraborty, S. Chatterjee, S. Das, A. Dhal, S.S. Ghogre, A. Goswami, D. Mondal, S. Mukhopadhyay, H. Pal, S. Pal, D. Pandey, R. Raut, P. Ray, S. Samanta	Magnetic rotational band in ^{116}Sn	Nuclear Physics A 1019 (2022) 122582	International	2022	0375-9474	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
676	Anandhita Dey, D.C. Bhowa, A. Chakraborty, K. Mukhopadhyay, A.K. Mondal, S. Mondal, B. Mukherjee, R. Chakrabarti, B.N. Joshi, L.A. Kluwe, S. Chatterjee, S. Samanta, S. Das, Soumik Bhattacharya, R. Banik, S. Nandi, Shubir Dair, R. Raut, G. Mukherjee, S. Bhattacharya, S.S. Ghogre, A. Goswami	Evidence for competing h-faceted compound nucleus fusion modes in $^{212}\text{Th}(\alpha, f)$ reaction	Physics Letters B 825 (2022) 138848	International	2022	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
677	A. Sen, T. K. Ghosh, E. M. Kozliko, I. M. Bala, G. N. Kopyeva, K. V. Novikov, S. Bhattacharya, K. Buejeer, and C. Bhattacharya	Quasifission in ^{84}Kr -induced reactions populating sequential elements	Physical Review C 105 (2022) 14627	International	2022	0556-2813	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
678	S. Manna, C. Bhattacharya, T. K. Rana, S. Kanda, R. Pandey, J. A. Sen, T. K. Ghosh, Pradyip Roy, G. Mukherjee, S. Mukhopadhyay, K. Buejeer, J. K. Meena, P. Karimaki, D. Paul, S. Dalal, J. K. Sahoo, R. M. Saha, A. K. Saha, and S. Bhattacharya	Signature of fusion suppression in complex fragment emission	Physical Review C 105 (2022) L021603	International	2022	0556-2813	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
679	S. Nandi, G. Mukherjee, A. Dhal, R. Banik, Soumik Bhattacharya, S. Bhasi, Shubir Dair, S. Bhattacharya, C. Bhattacharya, S. Kanda, D. Paul, S. Rajbhandi, S. Chatterjee, S. Das, S. Samanta, R. Raut, S. S. Ghogre, H. Pal, Sajad Ali, S. Bhowa, and A. Goswami	Different manifestations of triaxial shapes of the positive and negative parity bands in ^{187}Os	Physical Review C 105 (2022) 34136	International	2022	0556-2813	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
680	Mil Z. A. Naser, S. Dechoudhury, D. P. Datta, D. Hema, Vaishali Naik, Arup Basuopadhyay	Beam Dynamic Simulation Study for Longitudinal Beam Length Measurement of RF-Modulated Thermionic Electron Gun at VECC, Kolkata	Journal of Instrumentation 17 (2022) T02003	International	2022	1748-0221	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India

681	Joy Mukherjee, Dipak Bhosmik, Gourab Bhattacharyya, Biswajit Sengupta and Prasanta Karmakar	Spatially varying chemical phase formation on silicon nano ripple by low energy mixed ion bombardment	Journal of Physics: Condensed Matter 34 (2022) 135001	International	2022	1361648X	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
682	Sudip Bhosmik, Joy Mukherjee, Biswajit Sengupta, and Prasanta Karmakar	Optically sensitive indium silver nano-dots development by broad ion implantation on nitrogen ion-induced pre-patterned silicon nano-templated	Applied Surface Science 578 (2022) 152079	International	2022	0169-4332	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
683	Pragati Dasgupta, Guo-Liang Ma, Ripa Chatterjee, Li Yan, Song Zhang, and Yu-Gang Ma	Thermal photons as a sensitive probe of e -cluster in C : Au collisions at the BNL Relativistic Heavy Ion Collider	The European Physical Journal A 57 (2021) 134	International	2021	1834-6001	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
684	Tapuree Kundo Roy	High workability in 0.1 mol.% In ₂ O ₃ added ZnO-NiO based vitreous prepared at different sintering temperatures	Ceramics International 47 (2021) 35152-35159	International	2021	0272-8842	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
685	Balaram Dey, Srijit Bhattacharya, Deepak Pandit, N. Datta Dang, N. Nagesh, A. L. Tan Phat, N. Qiang Huang	Proton entropy excess and possible signature of pairing reentrance in hot nuclei	Physics Letters B 819 (2021) 136445	International	2021	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
686	Shantanu Sahoo, Niraj Chaddha, Sumita Sahoo, Nishant Bhowik, Anindya Roy, Mala Das, Subhojit Pal	FPGA-based multi-channel data acquisition system for Superficial Emission Detectors	Nuclear Instruments and Methods in Physics Research A 1009 (2021) 166457	International	2021	0168-9002	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
687	Mohd Waheed Siddiqui and Nishith Kumar Das	Performance Evaluation of Modified Low-Temperature Cascade (MLTC) Type Refrigeration System	International Journal of Air-Conditioning and Refrigeration 29 (2021) 219023	International	2021	2010-1325	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
688	VECC as collaborator Institution of ALICE	First measurement of quantum polarization in nuclear collisions at the LHC	Physics Letters B 815 (2021) 136146	International	2021	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
689	VECC as collaborator Institution of STAR	Measurements of Dihadron Correlations Relative to the First Plane in Au-Au Collisions at $\sqrt{s_{NN}} = 200$ GeV	Chinese Physics C 45 (2021) 144002	International	2021	1674-1137	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
690	VECC as collaborator Institution of ALICE	First measurement of the η -dependence of coherent J/ψ photoproduction	Physics Letters B 817 (2021) 136280	International	2021	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
691	VECC as collaborator Institution of ALICE	Elliptic Flow of Electrons from Beauty-Hadron Decays in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV	Physical Review Letters 126 (2021) 162001	International	2021	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
692	VECC as collaborator Institution of STAR	Globally polarized Λ and Omega baryons in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV	Physical Review Letters 126 (2021) 162301	International	2021	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
693	VECC as collaborator Institution of STAR	Comparison of transverse single-spin asymmetries for forward p_0 production in polarized pp, p-A and p-pb collisions at nucleus pair c.m. energy $\sqrt{s_{NN}}=200$ GeV	Physical Review D 103 (2021) 72005	International	2021	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
694	VECC as collaborator Institution of ALICE	Measurement of beauty and charm production in pp collisions at $\sqrt{s_{NN}}=5.02$ TeV via non-prompt and prompt D mesons	Journal of High Energy Physics 5 (2021) 220	International	2021	1028-8479	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
695	VECC as collaborator Institution of ALICE	Measurements of mixed harmonic cumulants in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Physics Letters B 818 (2021) 136354	International	2021	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
696	VECC as collaborator Institution of ALICE	Λ K Entanglement in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV	Physical Review C 103 (2021) 55201	International	2021	0556-2813	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
697	VECC as collaborator Institution of STAR	Longitudinal double-spin asymmetry for inclusive p_0 and dijet production in polarized proton collisions at $\sqrt{s_{NN}} = 200$ GeV	Physical Review D 103 (2021) L091103	International	2021	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
698	VECC as collaborator Institution of STAR	Methods for a blind analysis of isobar data collected by the STAR collaboration	Nuclear Science and Techniques 32 (2021) 08	International	2021	1001-8042	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
699	VECC as collaborator Institution of STAR	Measurement of transverse single-spin asymmetries of p_0 and electromagnetic jets at forward rapidity in 200 and 500 GeV transversely polarized proton-proton collisions	Physical Review D 103 (2021) 92009	International	2021	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
700	VECC as collaborator Institution of ALICE	Inclusive heavy-flavour production at central and forward rapidity in Xe-Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV	Physics Letters B 819 (2021) 136637	International	2021	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
701	VECC as collaborator Institution of ALICE	Long- and short-range correlations and their event-scale dependence in high-multiplicity pp collisions at $\sqrt{s_{NN}} = 13$ TeV	Journal of High Energy Physics 5 (2021) 290	International	2021	1028-8479	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
702	VECC as collaborator Institution of STAR	Minimalist antineutrino measurements of strange and multi-strange hadrons in U-U collisions at $\sqrt{s_{NN}}=193$ GeV at the BNL Relativistic Heavy Ion Collider	Physical Review C 103 (2021) 64907	International	2021	2469-9985	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
703	VECC as collaborator Institution of ALICE	First measurement of coherent p_0 photoproduction in ultra-peripheral Xe-Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV	Physics Letters B 820 (2021) 136481	International	2021	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
704	VECC as collaborator Institution of ALICE	Production of pions, kaons, anti- Λ -protons and ϕ mesons in Xe-Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV	The European Physical Journal C 81 (2021) 934	International	2021	1434-6044	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
705	VECC as collaborator Institution of STAR	Measurement of e - e Momentum and Angular Distributions from Linearly Polarized Photon Collisions	Physical Review Letters 127 (2021) 52302	International	2021	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
706	VECC as collaborator Institution of ALICE	Multi-harmonic correlations of different flow amplitudes in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV	Physical Review Letters 127 (2021) 92302	International	2021	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
707	VECC as collaborator Institution of ALICE	Energy dependence of p_0 meson production at forward rapidity in pp collisions at the LHC	The European Physical Journal C 81 (2021) 772	International	2021	1434-6044	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
708	VECC as collaborator Institution of ALICE	Production of muons from heavy-flavour hadron decays at high transverse momentum in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV and 2.76 TeV	Physics Letters B 820 (2021) 136558	International	2021	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
709	VECC as collaborator Institution of ALICE	Coherent J/ψ and ψ' photoproduction at midrapidity in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	The European Physical Journal C 81 (2021) 712	International	2021	1434-6044	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
710	VECC as collaborator Institution of STAR	Cumulants and correlation functions of net-proton, proton, and antiproton multiplicity distributions in Au-Au collisions at energies available at the BNL Relativistic Heavy Ion Collider	Physical Review C 104 (2021) 24902	International	2021	2469-9985	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India
711	VECC as collaborator Institution of STAR	Observation of D _s D _s Enhancement in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV	Physical Review Letters 127 (2021) 92301	International	2021	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India

712	MECC as collaborator Institution of STAR		Invariant p_T mass measurements in pp collisions at $\sqrt{s_{NN}} = 200$ GeV at RHIC	Physical Review D 104 (2021) 52007	International	2021	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
713	MECC as collaborator Institution of ALICE		Isotopic flow of identified hadrons in Xe-Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV	Journal of High Energy Physics 2021 (2021) 1152	International	2021	1028-8479	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
714	MECC as collaborator Institution of ALICE		Measurement of the production cross section of prompt D_s baryons at midrapidity in pp collisions at $\sqrt{s} = 2.76$ TeV	Journal of High Energy Physics 10 (2021) 159	International	2021	1028-8479	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
715	MECC as collaborator Institution of ALICE		Experimental evidence for an attractive p-p interaction	Physical Review Letters 127 (2021) 172301	International	2021	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
716	MECC as collaborator Institution of ALICE		Non-proton strong interaction at low relative momentum via femtoscopy in Pb-Pb collisions at the LHC	Physics Letters B 822 (2021) 136708	International	2021	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
717	MECC as collaborator Institution of ALICE		First measurements of N-subtleties in central Pb-Pb collisions at a central Pb-Pb collision at $\sqrt{s_{NN}} = 2.76$ TeV	Journal of High Energy Physics 10 (2021) 3	International	2021	1028-8479	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
718	MECC as collaborator Institution of ALICE		π production and nuclear modification at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Physics Letters B 822 (2021) 136579	International	2021	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
719	MECC as collaborator Institution of ALICE		3π fragmentation transverse momentum distributions in pp and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Journal of High Energy Physics 9 (2021) 211	International	2021	1028-8479	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
720	MECC as collaborator Institution of ALICE		Charged-particle multiplicity fluctuations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV	The European Physical Journal C 81 (2021) 1012	International	2021	1434-6044	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
721	MECC as collaborator Institution of ALICE		$A \pm c$ production in pp and in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Physical Review C 104 (2021) 54905	International	2021	2469-9985	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
722	MECC as collaborator Institution of ALICE		$A \pm c$ production and baryon-to-meson ratios in pp and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV at the LHC	Physical Review Letters 127 (2021) 202301	International	2021	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
723	MECC as collaborator Institution of ALICE		Measurement of the cross sections of D_s and D_s^* baryons and branching-fraction ratio $BR(D_s \rightarrow \pi D_s^* e^+ \nu_e)/BR(D_s \rightarrow \pi D_s^* e^+ \nu_e)$ in pp collisions at 13 TeV	Physical Review Letters 127 (2021) 272001	International	2021	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
724	MECC as collaborator Institution of ALICE		Inclusive Λ production at midrapidity in pp collisions at $\sqrt{s_{NN}} = 1.3$ TeV	The European Physical Journal C 81 (2021) 1123	International	2021	1434-6044	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
725	MECC as collaborator Institution of STAR		Measurement of the Sixth-Order Cumulant of Net-Proton Multiplicity Distributions in Au-Au Collisions at $\sqrt{s_{NN}} = 27, 54.4, \text{ and } 200$ GeV at RHIC	Physical Review Letters 127 (2021) 262301	International	2021	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
726	MECC as collaborator Institution of STAR		Global Lambda-hyperon polarization in Au-Au collisions at $\sqrt{s_{NN}} = 3$ GeV	Physical Review C 104 (2021) L061901	International	2021	2469-9985	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
727	MECC as collaborator Institution of ALICE		Charm-quant fragmentation fractions and production cross section at midrapidity in pp collisions at the LHC	Physical Review D 105 (2022) L011105	International	2022	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
728	MECC as collaborator Institution of ALICE		Measurement of prompt D_s , $A \pm c$, and $D_s^* e^+ \nu_e$ production in pp collisions at $\sqrt{s} = 13$ TeV	Physical Review Letters 128 (2022) 12001	International	2022	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
729	MECC as collaborator Institution of STAR		Search for the chiral magnetic effect with isobar collisions at $\sqrt{s_{NN}} = 200$ GeV by the STAR Collaboration at the BNL Relativistic Heavy Ion Collider	Physical Review C 105 (2022) 14001	International	2022	2469-9985	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
730	MECC as collaborator Institution of STAR		Investigation of Experimental Observables in Search of the Chiral Magnetic Effect in Heavy-Ion Collisions in the STAR experiment	Chinese Physics C 46 (2022) 14101	International	2022	1674-1137	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
731	MECC as collaborator Institution of STAR		Measurement of cold nuclear matter effects for inclusive J/ψ in p-Au collisions at $\sqrt{s_{NN}} = 200$ GeV	Physics Letters B 825 (2022) 136865	International	2022	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
732	MECC as collaborator Institution of ALICE		Nuclear modification factor of light neutral-meson spectra up to high transverse momentum in p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV	Physics Letters B 827 (2022) 139543	International	2022	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
733	MECC as collaborator Institution of STAR		Light Nuclei Collectivity from 3 GeV Au-Au Collisions at RHIC	Physics Letters B 827 (2022) 136941	International	2022	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
734	MECC as collaborator Institution of STAR		Stratum Collision-energy dependence of second-order elliptical and diagonal cumulants of net-charge, net-proton, and net-strangeness multiplicity distributions in Au-Au collisions	Physical Review C 105 (2022) 29901	International	2022	2469-9985	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
735	MECC as collaborator Institution of STAR		Measurement of inclusive electrons from open heavy-flavor hadron decays in pp collisions at $\sqrt{s_{NN}} = 200$ GeV with the STAR detector	Physical Review D 105 (2022) 13007	International	2022	2470-0010	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
736	MECC as collaborator Institution of ALICE		Measurement of prompt D_s^+ meson production and azimuthal anisotropy in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Physics Letters B 827 (2022) 136986	International	2022	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
737	MECC as collaborator Institution of ALICE		Measurement of the groomed p_T radius and momentum splitting fraction in pp and Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Physical Review Letters 128 (2022) 102001	International	2022	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
738	MECC as collaborator Institution of ALICE		Production of Λ and $\bar{\Lambda}$ in pp collisions at $\sqrt{s} = 7$ TeV	Physics Letters B 827 (2022) 136984	International	2022	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
739	MECC as collaborator Institution of STAR		Search for the Chiral Magnetic Effect via Charge-Dependent Azimuthal Correlations Relative to Spectator and Participant Planes in Au-Au Collisions at $\sqrt{s_{NN}} = 200$ GeV	Physical Review Letters 128 (2022) 92301	International	2022	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
740	MECC as collaborator Institution of STAR		Disappearance of pionic collectivity in 3 GeV Au-Au collisions at RHIC	Physics Letters B 827 (2022) 137063	International	2022	0370-2693	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
741	MECC as collaborator Institution of STAR		Probing the Gluon Structure of the Deuteron with J/ψ Photo-production in d-Au Ultra-peripheral Collisions	Physical Review Letters 128 (2022) 122303	International	2022	0031-9007	Variable Energy Cyclotron Centre, Kolkata - 700 064, India Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai - 400 094, India	
742	Chandrima Das	MHW Book: Handbook of Oxidative Stress in Cancer: Therapeutic Aspects	Oncogenic Virus Induced Oxidative Stress and Epigenetic regulation: An insight into how DNA methylation			2022		SNP	Springer Nature
743	Chandrima Das	Mechanism and Epigenetic Regulation: Implications in Cancer	Reprogramming cell-bioenergetics metabolism in cancer and its role in regulating the tumour microenvironment			2022		SNP	Springer Nature

744	Chandrima Das	Metabolism and Epigenetic Regulation: Implications in Cancer		Epigenetic reprogramming of the Glucose metabolic pathway by the Chromatin effectors during Cancer		2022		SNP	Springer Nature
745	Chandrima Das	Metabolism and Epigenetic Regulation: Implications in Cancer		Role of the histone acetyl transferase MZF and the histone deacetylase Sirtuin in regulation of HSK16a, during DNA damage repair and metabolic programming: Implications in Cancer and Asthma		2022		SNP	Springer Nature
746	Chandrima Das	Metabolism and Epigenetic Regulation: Implications in Cancer		Epigenetics in cancer: a metabolic perspective		2022		SNP	Springer Nature
747	Sunank Mahapatray	Charge sharing in single and double GEMs	Published in INIST	RPC Workshop 2020	International	2021	ISSN 1748-0221	SNP	INIST
748	Nayana Manjunath	Recent Advances in Mechanical Engineering, Lecture Notes in Mechanical Engineering book series	Published in INIST	RPC Workshop 2020	International	2021	ISSN 1748-0221	SNP	IFIP Publishing
749	PARTISH CHAUDHURI	Experimental Investigations on Bubble Detection in Water-Air Two-Phase Vertical Columns				2021	9789811596780	IFP	Springer
750	S.S. KHRWADKAR	Joining Processes for Dissimilar and Advanced Materials	Joining of Heat Sink with Structural Material for IGBT like Device Application		International	2021	9780323853996	IFP	Woodhead Publishing
751	RAJARAMAN GANESH	On Performance Enhancement of Molecular Dynamics Simulation using HPC Systems		Proceedings of 2nd International Conference on Computing, Communications, and Cyber-Security	International	2021	9789811609725	IFP	Springer
752	MAINAK BANDYOPADHYAY	Estimation of Inter Conductor Stray Capacitance for HVDC Transmission Line of Negative Neutral Beam Injector		AIP Conference Proceedings	International	2021		IFP	AIP
753	MAINAK BANDYOPADHYAY	Experimental Results of 40 kW, 1 MHz Solid State High Frequency Power Supply With Inductively Coupled Plasma		AIP Conference Proceedings	International	2021		IFP	AIP
754	MAINAK BANDYOPADHYAY	The Feasibility of Resonance Induced Instabilities in the Magnetron Filter Region of Low Temperature Plasma Based Negative Ion Sources		AIP Conference Proceedings	International	2021		IFP	AIP
755	MAINAK BANDYOPADHYAY	Correction Algorithm for Curly Ring Down Based Axion Density Measurement in a Negative Ion Source Having Continuously Fed Cesium Vapor		AIP Conference Proceedings	International	2021		IFP	AIP
756	MAINAK BANDYOPADHYAY	Noise Mitigation Techniques in Thermocouple signals in Negative Ion sources with RF and HV voltages		AIP Conference Proceedings	International	2021		IFP	AIP
757	MAINAK BANDYOPADHYAY	Design of FPGA based Triggering and Synchronization System for Laser Photo Detachment Diagnostics in RFBIN		AIP Conference Proceedings	International	2021		IFP	AIP
758	MAINAK BANDYOPADHYAY	Probe for in situ Measurement of Work Function in Correlation with Cesium Dynamics Suitable for Ion Source Applications		AIP Conference Proceedings	International	2021		IFP	AIP
759	MAINAK BANDYOPADHYAY	Prediction of Negative Hydrogen Ion Density in Permanent Magnet Based Helicon Ion Source (HEH) Using Deep Learning Techniques		AIP Conference Proceedings	International	2021		IFP	AIP
760	JOYDEEP GHOSH	Development of Plasma Systems for the Seeds Treatment to Improve Germination and Growth		AIP Conference Proceedings	International	2021		IFP	AIP
761	SURYA KUMAR PATHAK	Design and Simulation of a Water Based Polarization-Insensitive and Wide Incidence Dielectric Metasurface Absorber for X-, Ku- and K-Band		2021 IEEE Indian Conference on Antennas and Propagation (ICAP)	National	2021		IFP	IEEE
762	SURYA KUMAR PATHAK	Design and Simulation of a Polarization-Independent Switchable Metasurface Resorber/Absorber		2021 IEEE MTT-S International Microwave and RF Conference (IMIRC)	National	2021		IFP	IEEE
763	SURYA KUMAR PATHAK	Polarization-Insensitive Metasurface based Switchable Absorber/Resorber		IEEE Asia-Pacific Microwave Conference (APMC)	International	2022		IFP	IEEE
764	A.K.Debnath	Nanotechnology based E-taste for smart manufacturing		Nanoscience for Smart Manufacturing		2021	9780182315980	BARC, Mumbai	Elsevier
765	A. C. Bhaskaran, Jostimwee Mohary	Cybersecurity in anti-biofouling applications		Supramolecular Chemistry in Corrosion and Biofouling Protection: Physics of Nuclear Reactors		2021	9781000516308; 9780167309024	BARC, Mumbai	CRC Press
766	A. John And	Nuclear reactor safety		Physics of Nuclear Reactors		2021	9780128244110	ICAR, Kalyakum	Elsevier
767	A. John And	Nuclear reactor kinetics		Physics of Nuclear Reactors		2021	9780128244110	ICAR, Kalyakum	Elsevier
768	Abhimand Patil Tiwari	A Robust Nonlinear Adaptive Control for Control of Nuclear Reactor		2021 7th Indian Control Conference, IC 2021 - Proceedings		2021	9781665409780	BARC, Mumbai	Institute of Electrical and Electronics Engineers Inc.
769	Amrita Roy, Himad Bhatt	FT-IR and ATR-FTIR studies of sludge (CEPT) before and after adsorption of dyes from aqueous solution		AIP Conference Proceedings		2021	978075441217	BARC, Mumbai	American Institute of Physics Inc.
770	Amrita Roy, Nandita Maiti	3-D Particle Trajectory Tracking and Characterization of Electron Beam Parameters of High Power Electron Gun		2021 IEEE 2nd International Conference on Electrical Power and Energy Systems, ICEPES 2021		2021	9781665402361	BARC, Mumbai	Institute of Electrical and Electronics Engineers Inc.
771	Anand Kumar Dubey, Subhasis Chandrauday	Testing of 10 cm x 10 cm Triple GEM Detector Using MUX-XYBER v2.0 Electronics		Scintner Proceedings in Physics		2021	9789811344075	VECC, Kolkata	Springer Science and Business Media Deutschland GmbH
772	Anand Kumar Dubey, Subhasis Chandrauday	Design and Development of Various Cooling Arrangements for Micron Channel Detectors Electronics		Scintner Proceedings in Physics		2021	9789811344075	VECC, Kolkata	Springer Science and Business Media Deutschland GmbH
773	Anand Kumar Dubey, Subhasis Chandrauday	Testing Road-Size Triple GEM Chambers with Pb-Ph Collimator at CERN-SPS		Scintner Proceedings in Physics		2021	9789811344075	VECC, Kolkata	Springer Science and Business Media Deutschland GmbH
774	Anil Kumar Chaudhan	Study of recombination mechanisms in organic solar cells by electrochromance and light stability factor		AIP Conference Proceedings		2021	978075441087	BARC, Mumbai	American Institute of Physics Inc.
775	Anil Kumar Kam	Orthogonality: An Antidote to Kadomtsev's Anti-Lattice Theorem		Trends in Mathematics		2021	7207-6215	NISIR, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
776	Anish Kumar	EMAT-Phased Array Inspection of Thick Austenitic Stainless Steel and Dissimilar Metal Welds		Lecture Notes in Mechanical Engineering		2021	9789811601859	ICAR, Kalyakum	Springer Science and Business Media Deutschland GmbH
777	Anish Kumar	Parametric Study on Resolution Achieved Using FMC-TFM Based Phased Array Ultrasonic Imaging		Lecture Notes in Mechanical Engineering		2021	9789811601859	ICAR, Kalyakum	Springer Science and Business Media Deutschland GmbH
778	Anish Kumar	Ultrasonic high frequency guided waves for testing of dissimilar metal welds		Materials Today: Proceedings		2021	2214-7853	ICAR, Kalyakum	Elsevier Ltd
779	Anjuli Mishrajee	Inverse Magnetic Catalysis (IMC) in Vacuum to Nuclear Matter Phase Transition		Scintner Proceedings in Physics		2021	9789811344075	SNP, Kolkata	Springer Science and Business Media Deutschland GmbH
780	Anwar, Gupta	Method of solving neutron transport equation		Physics of Nuclear Reactors		2021	9780128244110	BARC, Mumbai	Elsevier
781	Arana Banerjee	X-ray diffraction study and magnetic behavior of rhodium vanadate		AIP Conference Proceedings		2021	978075441217	BARC, Mumbai	American Institute of Physics Inc.
782	Aradhana Shrivastava	Influence of contact geometry on NTD sensor performance		IEEE 14th Workshop on Low Temperature Electronics, WOLTE 2021 - Proceedings		2021	9781728193069	BARC, Mumbai	Institute of Electrical and Electronics Engineers Inc.
783	Archana Shama	Mathematical Modeling of Peaker Switch		2021 International Conference on Next-Generation Technologies in Engineering, ICNTE 2021 - Proceedings		2021	9781728190617	BARC, Mumbai	Institute of Electrical and Electronics Engineers Inc.
784	Aruna Banik	On Geometric Priority Set Cover Problems		Leibniz International Proceedings in Informatics, LIPICS		2021	9783959977143	NISIR, Bhubaneswar	Schloss Dagstuhl - Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing
785	Arup Dasgupta	Imaging Diffraction Cores in Severe Plastically Deformed Nanocrystalline CP-Ti Alloy Through Geometrical Phase Analysis of Spherical Aberration Corrected HRTEM Images		Scintner Proceedings in Materials		2021	2662-3161	ICAR, Kalyakum	Springer Nature
786	Ashish Kumar Srivastava	Plant Nutrition and Food Security in the Era of Climate Change				2021	9780128291613	BARC, Mumbai	Elsevier
787	Avin Kumar Ghosh	Sustainable Approach to Water-Energy Nexus: Sea-Water Reverse-Osmosis Desalination and its Future Directions		Advanced Sciences and Technologies for Security Applications		2021	1613-5113	BARC, Mumbai	Springer
788	B. Sundarvel	Structural, optical and magnetic properties of SnO ₂ nanoparticles synthesized via surfactant-free hydrothermal process		Materials Today: Proceedings		2021	2214-7853	ICAR, Kalyakum	Elsevier Ltd
789	B. Venkataraman	Methodology to estimate using thoron concentration online monitors in these mode with low their range		AIP Conference Proceedings		2021	978075441087	ICAR, Kalyakum	American Institute of Physics Inc.
790	B. Venkataraman	Statistical Analysis on Breast Thermogram using Logistic Regression for Intra Classification		2021 IEEE Bombay Section Summer Conference, IBSSC 2021		2021	9781665417587	ICAR, Kalyakum	Institute of Electrical and Electronics Engineers Inc.
791	B. Venkataraman	Learning to Generate Missing Pulse Sequence in MRI using Deep Convolutional Neural Network Trained with Visual Turing Test		Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS 2021		2021	9781728117397	ICAR, Kalyakum	Institute of Electrical and Electronics Engineers Inc.
792	B. Venkataraman	Adversarial Training of Deep Convolutional Neural Network for Multi-organ Segmentation from Multi-sequence MRI of the abdomen		2021 International Conference on Intelligent Technologies, CONIT 2021		2021	9781728185835	ICAR, Kalyakum	Institute of Electrical and Electronics Engineers Inc.
793	B. Venkataraman	Asymmetrical Analysis of Breast Thermal Images for Detection of Breast Cancer		Lecture Notes in Mechanical Engineering		2021	9789811601859	ICAR, Kalyakum	Springer Science and Business Media Deutschland GmbH
794	B. Venkataraman; Durairaj; Subhine Nigudhan	Investigation on thermal stability of sintered magnesia in sodium for core catcher application in SFPS		International Conference on Nuclear Engineering, Proceedings, ICONE 2021		2021	978488982566	ICAR, Kalyakum	American Society of Mechanical Engineers (ASME)
795	B. K. Das	Mutation Breeding in Rice for Sustainable Crop Production and Food Security in India		Mutation Breeding: Genetic Diversity and Crop Adaptation to Climate Change		2021	9781702491011	BARC, Mumbai	CABI International

796	Belonizdas Mohanty	Effect of New Resonance States on Fluctuations and Correlations of Conserved Charges in a Hadron Resonance Gas Model	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	NISER, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
797	Belonizdas Mohanty	Simulation Study on Feasibility of RPC Operation in Low Gain Mode	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	NISER, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
798	Belonizdas Mohanty	Thermodynamics of a Gas of Hadrons with Interaction Using S-Matrix Formalism	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	NISER, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
799	Belonizdas Mohanty	Spin alignment measurements of vector mesons with ALICE at LHC	Proceedings of Science	4th International Conference on High Energy Physics, ICHEP 2020	2021	1824-8039	NISER, Bhubaneswar	Scisearch MedRxiv
800	Biswajit Karmakar	General Structure of a Gauge Boson Propagator and Pressure of Deconfined QCD Matter in a Weakly Magnetized Medium	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	SNP, Kolkata; NISER, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
801				2021 International Conference on Communication, Control and Information Sciences, CCIS-2021	2021	9781665412797	BARC, Mumbai	Institute of Electrical and Electronics Engineers Inc.
802	Bhawanjan Dikshit; Srinivas; Krishnanagaraj	Insulator requirements for particle accelerators		1st International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology, ICASACT 2021	2021	1742-6588	BARC, Mumbai	IOP Publishing Ltd
803	Bhawanjan Dikshit; Vinod Singh Rawat	Dynamics of magnetic pulse compression circuit of metal capacitor	Journal of Physics: Conference Series		2021	1742-6588	BARC, Mumbai	IOP Publishing Ltd
804	Chait Prakash Paul	Influence of WDM Parameters for Estimating the Surface Emissivity of Laser Additive Manufactured Hybrid Material	Springer Proceedings in Materials		2021	2662-3161	ERICAT, Indore	Springer Nature
805	Chait Prakash Paul; Kishvinder Singh Bindra	Fiber laser welding of Ti-6Al-4V alloy	Advanced Welding and Deformation		2021	9780128294988	ERICAT, Indore	Elsevier
806	Chait Prakash Paul; Kishvinder Singh Bindra	Elucidating Corrosion Behavior of Hastelloy-X Built Using Laser Directed Energy Deposition-Based Additive Manufacturing in Acidic Environments	Lecture Notes in Mechanical Engineering	1st International Conference on Future Trends in Materials and Mechanical Engineering, ICTFMMME 2020	2021	9789811606724	ERICAT, Indore	Springer Science and Business Media Deutschland GmbH
807	Chait Prakash Paul; Kishvinder Singh Bindra	Laser Polishing of Laser Additive Manufactured Hastelloy-X Parameters, Effectiveness and Process Optimization	Lecture Notes in Mechanical Engineering	1st International Conference on Future Trends in Materials and Mechanical Engineering, ICTFMMME 2020	2021	9789811606724	ERICAT, Indore	Springer Science and Business Media Deutschland GmbH
808	Chait Prakash Paul; Kishvinder Singh Bindra	Investigating Laser Surface Texturing on SS 304 for Self-Cleaning Application	Springer Proceedings in Materials	Advances in Materials Science Research, Volume 46	2021	2662-3161	ERICAT, Indore	Springer Nature
809	D. Manali	Lithium-based tritium breeder materials	Advances in Materials Science Research, Volume 46	10th Asian Congress of Fluid Mechanics, ACMF 2019	2021	9789811551826	BARC, Mumbai	Nova Science Publishers, Inc.
810	Deb. Mukhopadhyay	Thermal Behavior of a Complexly Vented Cooled Channel for Indian PHWR Under Changed Fuel Pin Condition: Experimental and Numerical Approach	Lecture Notes in Mechanical Engineering		2021	9789811551826	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
811	Debabrata Biswas	The notional emission area for cylindrical ports and its variation with local electric field		2021 34th International Vacuum Nanoelectronics Conference, IVNC 2021	2021	9781665425896	BARC, Mumbai	Institute of Electrical and Electronics Engineers Inc.
812	Debanik Roy	Mono Camera-based Localization of Objects to Guide Real-time Grasping of a Robotic Manipulator	ACM International Conference Proceeding Series	Advances in Robotics, AIR 2021	2021	9781450390716	BARC, Mumbai	Association for Computing Machinery
813	Debanik Roy	Study of Real-Time Vibration and Hardware Implementation of Serial Link Flexible Robot with Gripper	Proceedings of the 2021 2nd International Conference on Communication, Computing and Industry 4.0, CCI4 2021	2nd International Conference on Communication, Computing and Industry 4.0, CCI4 2021	2021	9781665420136	BARC, Mumbai	Institute of Electrical and Electronics Engineers Inc.
814	Debanik Roy	A robust tactile sensor matrix for intelligent grasping of objects using robotic grippers		2021 International Symposium of Asian Control Association on Intelligent Robotics and Industrial Automation, IRIA 2021	2021	9781665432255	BARC, Mumbai	Institute of Electrical and Electronics Engineers Inc.
815	Debanik Roy	Estimation of Dynamic Characteristics of a Novel Non-Parallel Detachable-Jaw Robotic Gripper Using Finite Element Method	Journal of Physics: Conference Series	2020 International Conference on Robotics and Artificial Intelligence, ROAD 2020	2021	1742-6588	BARC, Mumbai	IOP Publishing Ltd
816	Debasish Bhattacharya; Prasanna; Karmakar	Investigation on chemical instability and optical absorption of an ion-bounded Si surface	AIP Conference Proceedings		2021	9780714441217	VECC, Kolkata	American Institute of Physics Inc.
817	Debasish Mainauder	Constraining Axion Mass from Cooling of Neutron Star	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	SNP, Kolkata	Springer Science and Business Media Deutschland GmbH
818	Debasish Mainauder	Dark Energy Perturbation and Power Spectrum in Shear Mod	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	SNP, Kolkata	Springer Science and Business Media Deutschland GmbH
819	Dhanasekar Datta	Physical, thermal and electrochemical properties of ionic liquid functionalized polyaniline electrodes	Advances in Materials Science Research		2021	9781685071264-9781685070984	BARC, Mumbai	Nova Science Publishers, Inc.
820	Dhruv Venkatesh Udum	Optical Response of One Dimensional Photonic Crystals with Rough Interfaces	Springer Proceedings in Physics	International Conference on Optics and Electro-optics, ICVE, 2019	2021	9789811592584	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
821	Dinku Kumar Bhatnagar	A short review on inorganic thin films from device perspective	Chemical Science Synthesis for Materials Design and Thin Film Device Applications		2021	9780120197189	KICAR, Kolkatam	Elsevier
822	Ganesh Rameshram	On Performance Enhancement of Molecular Dynamics Simulations Using HPC Systems	Lecture Notes in Networks and Systems		2021	9789811607325	IFP, Gandhinagar	Springer Science and Business Media Deutschland GmbH
823	Gauri Chaudhari	Statistical and dynamical bimodality in multifragmentation reactions	Springer Proceedings in Physics	Indo-French Workshop on Multifragmentation, Collective Flow, and Sub-Threshold Particle Production in Heavy-Ion Reactions, 2019	2021	9789811590610	VECC, Kolkata	Springer Science and Business Media Deutschland GmbH
824	Gauri Chaudhari; Parulika; Das	New signatures of phase transition from models of nuclear multifragmentation	Springer Proceedings in Physics	Indo-French Workshop on Multifragmentation, Collective Flow, and Sub-Threshold Particle Production in Heavy-Ion Reactions, 2019	2021	9789811590610	VECC, Kolkata	Springer Science and Business Media Deutschland GmbH
825	Gautam Bhattacharaya	Notes on a Z'	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	SNP, Kolkata	Springer Science and Business Media Deutschland GmbH
826	Hararath Ghosh	Effect of Sb doping on 112 Fe based superconductors: Density functional theory study	Materials Today: Proceedings	2019 International Conference on Advances in Nanomaterials and Devices for Energy and Environment, ICAN 2019	2021	2214-7853	ERICAT, Indore	Elsevier Ltd
827	Hararath Ghosh	Core electron spectroscopic studies for H iron-based superconductors	Materials Today: Proceedings		2021	2214-7853	ERICAT, Indore	Elsevier Ltd
828	Hassan P. A.; K. C. Barick	Defects in nanomaterials for visible light photocatalysis	Nanostructured Materials for Visible Light Photocatalysis		2021	9780128290183	BARC, Mumbai	Elsevier
829	Indumathi D	Effect of Event-By-Event Reconstruction and Low Event Statistics on the Sensitivity of Oscillation Parameters in the INO-ICAL Detector	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	DMS, Chennai	Springer Science and Business Media Deutschland GmbH
830	Indumathi D	Probing Leptonic SCP Using Low Energy Atmospheric Neutrinos	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	DMS, Chennai	Springer Science and Business Media Deutschland GmbH
831	Indumathi D	Fragmentation of Pseudo-Scalar Mesons	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	DMS, Chennai	Springer Science and Business Media Deutschland GmbH
832	Indumathi D	Infrared Finiteness of Theories with Bino-Like Dark Matter at $T = 0$	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	DMS, Chennai	Springer Science and Business Media Deutschland GmbH
833	Indumathi D	IR Finiteness of Theories with Bino-Like Dark Matter at Finite Temperature	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	DMS, Chennai	Springer Science and Business Media Deutschland GmbH
834	Indumathi D	Study of Atmospheric Neutrino Oscillation Parameters at the INO-ICAL Detector Using $\nu - \bar{\nu} + \nu - \bar{\nu}$ X Events	Springer Proceedings in Physics	22nd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	DMS, Chennai	Springer Science and Business Media Deutschland GmbH
835	Indumathi D	Effect of 1-2 oscillation parameters on the sensitivity to SCP with low energy atmospheric neutrinos	Proceedings of Science	4th International Conference on High Energy Physics, ICHEP 2020	2021	1824-8039	DMS, Chennai	Scisearch MedRxiv
836	Jaya; Alam	Expansion of Glauber-like model for Proton-Proton collisions using anisotropic and inhomogeneous density profile	Proceedings of Science	9th Annual Conference on Large Hadron Collider Physics, LHCP 2021	2021	1824-8039	VECC, Kolkata	Scisearch MedRxiv
837	Jayanti Chattopadhyay; M. K. Samal; Suresh Kumar Gupta	Assessment of Cyclic Plasticity Behavior of Primary Piping Material of Indian PHWRs Under Multiaxial Loading Scenario	Lecture Notes in Mechanical Engineering	3rd International Conference on Fatigue, Durability and Fracture Mechanics, 2019	2021	9789811547782	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
838	Jayanti Chattopadhyay; Suresh Kumar Gupta	Review of Various Hypotheses Used to Correct Notch Effect in Stress-Strain in Local Plasticity	Lecture Notes in Mechanical Engineering	3rd International Conference on Fatigue, Durability and Fracture Mechanics, 2019	2021	9789811547782	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
839	Jayika Kedar Deodhar	A Retrospective Observational Study of Problems Faced by Children and Adolescents with Cancer: A 5-year Experience from a Pediatric Psycho-Oncology Service in India	Indian Journal of Medical and Paediatric Oncology		2021	0071-5851	TMC, Mumbai	Thieme Medical Publishers, Inc.
840	Jayendra Nath Behera	Superconductors based on graphene and its hybrids	Fundamentals and Supercapacitive Applications of 2D Materials		2021	9780128219958	NISER, Bhubaneswar	Elsevier
841	Jayendra Ghosh	Development of plasma system for the seeds treatment to improve germination and growth	AIP Conference Proceedings	2020 National Conference on Physics and Chemistry of Materials, NCPM 2020	2021	9780754412117	IFP, Gandhinagar	American Institute of Physics Inc.

841	Rohit Ghosh	Radio Frequency (RF) Plasma Treatment of Catalytic Resists and Fluorine Protection	Green Energy and Technology	2021	1865-3529	IPR, Gandhinagar	Springer Science and Business Media Deutschland GmbH
842	K. Devan	Homogeneous reactor and neutron diffusion equation	Physics of Nuclear Reactors	2021	9780128234410	ICAR, Kalyakum	Elsevier
843	K. Devan, Kamun Umashankar	Devian methods and computer codes	Physics of Nuclear Reactors	2021	9780128234410	ICAR, Kalyakum; BARC, Mumbai	Elsevier
844	K. Devan, Kamun Umashankar	Experimental and operational reactor physics	Physics of Nuclear Reactors	2021	9780128234410	ICAR, Kalyakum; BARC, Mumbai	Elsevier
845	K. Girevan	Measurement, processing and analysis of stress maps on coatings	Journal of Physics: Conference Series	2021	1742-6598	ICAR, Kalyakum	IPP Publishing Ltd
846	K.C. Barick	Multifunctional growth of dendritic magnetic nanocrystals for targeted drug delivery	Materials Today: Proceedings	2021	2214-7853	BARC, Mumbai	Elsevier Ltd
847	Kamun Umashankar	Physics of Nuclear Reactors	Physics of Nuclear Reactors	2021	9780128234410	BARC, Mumbai	Elsevier
848	Kamun Umashankar	Physics of nuclear reactors	Physics of Nuclear Reactors	2021	9780128234410	BARC, Mumbai	Elsevier
849	Kamun Umashankar	Fuel burnup, fuel management and fuel cycle analysis	Physics of Nuclear Reactors	2021	9780128234410	BARC, Mumbai	Elsevier
850	Kareshh Bhargava	Reliability-Based Assessment of Lifetime Potential Using SPT Approach	Lecture Notes in Civil Engineering	2021	9789811599035	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
851	Kareshh Bhargava	Evaluation of Spatial Interpolation for RQD at Different Depths	Lecture Notes in Civil Engineering	2021	9789811364653	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
852	Kareshh Bhargava, Ratim Kumar	Lifetime Potential Assessment for Near Field and Far Field Ground Motion	Lecture Notes in Civil Engineering	2021	9789811364656	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
853	Kishore Chandrasekar Panigrahi	Impact of abiotic stress on the root growth and development	Microbial Management of Plant Stress: Current Trends, Application and Challenges	2021	9780323851930	NISER, Bhubaneswar	Elsevier
854	Kulvart Singh	Prediction of coating composition using computer-aided reactive simulation and experimental verification	AP Conference Proceedings	2021	978075440630	BARC, Mumbai	American Institute of Physics Inc.
855	Kulvart Singh	Development of Thin Aluminide Coatings on Alloy 800 Substrate	Scientific Proceedings in Materials	2021	2662-3161	BARC, Mumbai	Scientific Nature
856	Manoj Handeodhary	Experimental results of 40 AW, 1 MWHz solid state high frequency power supply with inductively coupled plasma	AP Conference Proceedings	2021	978075441095	IPR, Gandhinagar	American Institute of Physics Inc.
857	Minomu Kumar Mukhopadhyay	X-ray photon correlation spectroscopy to study dynamics of thin polymer films	Advanced Characterization of Nanostructured Materials: Probing the Structure and Dynamics With Synchrotron X-rays and Neutrons	2021	9789811231520; 9789811231506	SNP, Kolkata	World Scientific Publishing Co.
858	Minomu Kumar Mukhopadhyay	Formation of Non-equilibrium Alloys through Nanostructure Deposition: The Au ₂ U ₃ Al ₂ Superimposed Alloy	Journal of Physics: Conference Series	2021	1742-6588	SNP, Kolkata	IPP Publishing Ltd
859	Nayana Majumdar, Sandip Sarkar, Supratik Mukhopadhyay	Effect of Variation of Surface Reactivity of Graphite Layer in RPC	Scientific Proceedings in Physics	2021	9789811344075	SNP, Kolkata	Springer Science and Business Media Deutschland GmbH
860	Nayana Majumdar, Sibir Sarkar, Supratik Mukhopadhyay	Experimental and Numerical Studies of the Efficiency of Gaseous Detectors	Scientific Proceedings in Physics	2021	9789811344078	SNP, Kolkata	Springer Science and Business Media Deutschland GmbH
861	Nayana Majumdar, Supratik Mukhopadhyay	Charge sharing in single and double GEMs	Journal of Instrumentation	2021	1748-0221	SNP, Kolkata	IPP Publishing Ltd
862	P. V. Nuthini	Capturing the temperature of the workplace in an induction heating system using thermocouple with minimal error	2021 5th International Conference on Electronics, Materials Engineering and Nano-Technology, IEMEN'2021	2021	9781665410054	MECC, Kolkata	Institute of Electrical and Electronics Engineers Inc.
863	P. M. G. Nambisan	Position annihilation spectroscopy for defect characterization in nanomaterials	Design, Fabrication, and Characterization of Multifunctional Nanomaterials	2021	9780128205987	SNP, Kolkata	Elsevier
864	Parthiv Chaudhari	Aspects of Heat Transfer Augmentation Using Nanofluids in Coolant in Fusion Reactors: A Brief Review	Lecture Notes in Mechanical Engineering	2021	9789811577789	IPR, Gandhinagar	Springer Science and Business Media Deutschland GmbH
865	Parthiv Chaudhari	Experimental Investigations on Bubble Detection in Water-Air Two-Phase Vertical Columns	Lecture Notes in Mechanical Engineering	2021	9789811596773	IPR, Gandhinagar	Springer Science and Business Media Deutschland GmbH
866	Prabhakar V Vande	Wall effects on terminal velocity of test fuel bundle in the fuel test loop of high flux research reactor	National Conference on Advances in Structural Technology, ICASST 2019	2021	9789811552342	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
867	Prabhakar V Vande	Optimization of DRBPMs Indian research reactors	Encyclopedia of Nuclear Energy	2021	9780120192257; 9780120192258	BARC, Mumbai	Elsevier
868	Prabhakar Kumar	Real-World Treatment Patterns and Clinical Outcomes in Patients With Stage II NSCLC: Results of KINDEL, a Multicenter Observational Study	Journal of Thoracic Oncology	2021	1556-0864	TMC, Mumbai	Elsevier Inc.
869	Pradip Kumar Sahu	Construction of a Single GEM Detector Using Indigotous Anode Plate	Scientific Proceedings in Physics	2021	9789811344075	IP, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
870	Pradip Kumar Sahu	Measurement of Ion Backflow with GEM-Based Detectors	Scientific Proceedings in Physics	2021	9789811344075	IP, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
871	Pradip Kumar Sahu	Characterization of Metal by GEM Detector Using Ion Beam Facility at IPR	Scientific Proceedings in Physics	2021	9789811344075	IP, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
872	Pradip Kumar Sahu, Satyapriyashil Sahas	Enhanced Production of Multi-strange Hadrons in Proton-Proton Collisions	Scientific Proceedings in Physics	2021	9789811344075	IP, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
873	Pratik Chandani	Photocuring time sensitive microenvironment (TIME) in vivo in rat eyes using reflectance confocal microscopy	Optics InfoBase Conference Papers	2021	9781575782809	TMC, Mumbai	The Optical Society
874	R. Ramasohan	Structural, mechanical and electrochemical properties of TC and TiN films prepared by pulsed DC magnetron sputtering technique	Materials Today: Proceedings	2021	2214-7853	ICAR, Kalyakum	Elsevier Ltd
875	R. K. Bajpai	Stability Assessment of Cross-Tunnels in Jointed Rock Using Discrete Element Method	Lecture Notes in Civil Engineering	2021	9789811364653	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
876	R. Balasubramanian	Experimental Study of Effect of Machining Parameters on PMMA in Diamond Turning	Lecture Notes in Mechanical Engineering	2021	9789811591167	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
877	R. Balasubramanian	Analysis, Modeling and Experimental Study of Stretching Stress in the Design of Pressure Sensor	Lecture Notes in Mechanical Engineering	2021	9789811344655	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
878	R. Balasubramanian	Experimental Investigation of Influence of Machining Parameters on Profile Error in Diamond Turning of PMMA	Lecture Notes in Mechanical Engineering	2021	9789811347946	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
879	Rajivendra Tewari, Seema Banerjee, Vishwanath Bartha	A Study on the Active Interfacial Phase Transformations of UZr-Cu Alloys	Scientific Proceedings in Materials	2021	2662-3161	BARC, Mumbai	Scientific Nature
880	Rajivendra Tewari, Vishwanath Bartha	Estimation of Deflection Density Using Electron Channeling Contrast Imaging in Ti-Hf/Zr-N	Scientific Proceedings in Materials	2021	2662-3161	BARC, Mumbai	Scientific Nature
881	Rajesh Ashok Kulkarni	Validation of Monte Carlo simulation TOPAS code for Bhabhatron-II telecobalt radiotherapy unit	AP Conference Proceedings	2021	9780754410507	TMC, Mumbai	American Institute of Physics Inc.
882	Ram Nivas Singh	Numerical Study of Coupled Elasto-Plastic Hydrogen Diffusion at Crack Tip Using XFEM	Lecture Notes in Mechanical Engineering	2021	9789811583148	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
883	Rath Devashish, Smita Chakha	CRISPR-Cas9 system for functional genomics of filamentous fungi: Applications and challenges	Plant Bio-prospects in Sustainable Agriculture, Environment and Nanotechnology: Volume 3: Fungal Metabolites, Functional Genomics, and Nanotechnology	2021	9780128217344	BARC, Mumbai	Elsevier
884	Ravi Bhashan Grever	TECHNOLOGY TRANSFER OF NOVEL JOINTING TECHNOLOGIES: A CASE STUDY FROM INDIA	Proceedings of the 30th International Conference of the International Association for Management of Technology, IAMOT 2021 - MOT for the World of the Future	2021	9781779922131	IBNI Central Office	University of Pretoria
885	Rohini, Bhattacharya	32.5eV and 12 P Background Estimate in CMS H Silicon Detectors	Scientific Proceedings in Physics	2021	9789811344075	NISER, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
886	Ratik Das	Group Velocity Matched Optical Parametric Generation in the Mg:IR Route	Scientific Proceedings in Physics	2021	9789811592584	NISER, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
887	Ratik Das	Thermo-optic Manifestations in LiTaO ₃ -Based Continuous-Wave Optical Parametric Oscillator	Scientific Proceedings in Physics	2021	9789811592584	NISER, Bhubaneswar	Springer Science and Business Media Deutschland GmbH
888	Ratik Das	Simulated Parametric Scattering in LiNbO ₃ Based Optical Parametric Oscillators	Scientific Proceedings in Physics	2021	9789811592584	NISER, Bhubaneswar	Springer Science and Business Media Deutschland GmbH

889	Rudresh Acharya, Soumitra Kar, V.H Patilkar	Reducing Metal Artifact using Iterative Reconstruction in Industrial CT	2021 International Conference on Recent Technologies in Engineering, ICRTET 2021, Proceedings	4th Biannual International Conference on Recent Technologies in Engineering, ICRTET 2021	2021	9781728190617	NISER, Bhubaneswar, BARC, Mumbai	Institute of Electrical and Electronics Engineers Inc.
890	Rama Chatterjee	Electroweak oblique Summery	Proceedings of Science	10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions, HardProbes 2020	2021	1824-8039	VECC, Kolkata	Scis Medislab Sd
891	Rama Chatterjee, Subhasis Chatterjee	Correlation between initial spatial anisotropy and final momentum anisotropies in relativistic heavy-ion collisions	Proceedings of Science	9th Annual Conference on Large Hadron Collider Physics, LHCP 2021	2021	1824-8039	VECC, Kolkata	Scis Medislab Sd
892	Sakhi Bhoj	Study of Plasma Sheath in the Presence of Dust Particles in an Inhomogeneous Magnetic Field	Springer Proceedings in Physics	1st International Conference on Trends in Modern Physics, TAMP 2021	2021	9789811651403	IPR, Guwahati	Springer Science and Business Media Deutscherland GmbH
893	Sakhi Bhoj	Study of Ion-Acoustic Waves in Two-Electron Temperature Plasma	Springer Proceedings in Physics	1st International Conference on Trends in Modern Physics, TAMP 2021	2021	9789811651403	IPR, Guwahati	Springer Science and Business Media Deutscherland GmbH
894	Saket Saurabh	Efficient computation of representative weight functions with applications to parameterized counting (extended version)	Proceedings of the Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2021	32nd Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2021	2021	9781611976465	IMS, Chennai	Association for Computing Machinery
895	Saket Saurabh	A constant factor approximation for navigating through connected obstacles in the plane	Proceedings of the Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2021	32nd Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2021	2021	9781611976465	IMS, Chennai	Association for Computing Machinery
896	Saket Saurabh	Circumventing Connectivity for Kernelization	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	12th International Conference on Algorithms and Complexity, CIAC 2021	2021	97830301972415	IMS, Chennai	Springer Science and Business Media Deutscherland GmbH
897	Saket Saurabh	Odd Cycle Transversal in Mixed Graphs	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	47th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2021	2021	97830301868376	IMS, Chennai	Springer Science and Business Media Deutscherland GmbH
898	Saket Saurabh	An FPT algorithm for elimination distance to bounded treewidth	Leibniz International Proceedings in Informatics, LIPIcs	38th International Symposium on Theoretical Aspects of Computer Science, STACS 2021	2021	97839599771801	IMS, Chennai	Schloss Dagstuhl - Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing
899	Saket Saurabh	K-distinct branchings admit a polynomial kernel	Leibniz International Proceedings in Informatics, LIPIcs	29th Annual European Symposium on Algorithms, ESA 2021	2021	9783959977044	IMS, Chennai	Schloss Dagstuhl - Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing
900	Saket Saurabh	An ETH-THT Algorithm for Multi-Team Formation	Leibniz International Proceedings in Informatics, LIPIcs	41st IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science, ESTCS 2021	2021	9783959977150	IMS, Chennai	Schloss Dagstuhl - Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing
901	Saket Saurabh	A polynomial kernel for deletion to Erdős-Rényi graphs	Leibniz International Proceedings in Informatics, LIPIcs	16th International Symposium on Parameterized and Exact Computation, IPEC 2021	2021	9783959977167	IMS, Chennai	Schloss Dagstuhl - Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing
902	Saket Saurabh	A polynomial kernel for bipartite permutation vertex deletion	Leibniz International Proceedings in Informatics, LIPIcs	16th International Symposium on Parameterized and Exact Computation, IPEC 2021	2021	9783959977167	IMS, Chennai	Schloss Dagstuhl - Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing
903	Saket Saurabh	Multiplicative Parameterization above a Guarantee	ACM Transactions on Computation Theory		2021	1942-3454	IMS, Chennai	Association for Computing Machinery
904	Saket Saurabh, Sushmita Gupta	Geometry on Graphs: Computational Complexity and Parameterized Algorithms	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	14th International Symposium on Algorithmic Game Theory, SAGT 2021	2021	9783030895466	IMS, Chennai	Springer Science and Business Media Deutscherland GmbH
905	Santanu Dhal	Planar Reconstruction of Z2 Symmetry in the Presence of Fundamental Holes	Springer Proceedings in Physics	23rd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	IMS, Chennai	Springer Science and Business Media Deutscherland GmbH
906	Sanku Kumar Dhar	Chemical Solution Synthesis for Materials Design and Thin Film Device Applications	Springer Proceedings in Physics	2021 IEEE India Council International Subsections Conference, INDIACON 2021	2021	9780128197189	ICAR, Kalyakam	Elsevier
907	Santosh Pat	Development of Efficient 5-HP BLDC motor for Solar water pump and performance comparison with Induction Motor counterpart	2021 IEEE India Council International Subsections Conference, INDIACON 2021		2021	9781665438339	BARC, Mumbai	Institute of Electrical and Electronics Engineers Inc.
908	Santosh Bhat	Application of CRISPR-Cas system in agriculture	Progress in Molecular Biology and Translational Science		2021	9780128119096	SNP, Kolkata	Elsevier B.V.
909	Santosh J. Jambhulkar	Isolation and Characterization of Yellow Rust Resistant Mutants in Wheat	Mutation Breeding, Genetic Diversity and Crop Adaptation to Climate Change		2021	9781792491011	BARC, Mumbai	CABI International
910	Santosh J. Jambhulkar	Induction of Variability for Yield Components in Indian Mustard (Brassica juncea L. Czern & Coss) under Acidic Soil Regime of Burkland	Mutation Breeding, Genetic Diversity and Crop Adaptation to Climate Change		2021	9781792491011	BARC, Mumbai	CABI International
911	Santosh Kumar	Measurement of Through-Thickness Residual Stresses Under Restraint Condition in Pressure Vessel Steel Weld	Lecture Notes in Mechanical Engineering	43rd National Systems Conference on Innovative and Emerging Trends in Engineering Systems, NSC 2019	2021	9789811589246	BARC, Mumbai	Springer Science and Business Media Deutscherland GmbH
912	Sarbjit Pat	Development of EPICS Enabled Analog I-Q Based Low Level RF Control System	2021 5th International Conference on Electronics, Materials Engineering and Nano-Technology, BME/NTech 2021	5th International Conference on Electronics, Materials Engineering and Nano-Technology, BME/NTech 2021	2021	9781665418034	VECC, Kolkata	Institute of Electrical and Electronics Engineers Inc.
913	Sarbjit Pat	Design and Analysis of CoM Box for Helium Laser/Retriever	Lecture Notes in Mechanical Engineering	International Conference on Innovation in Thermo-Fluid Engineering and Sciences, ICFES 2020	2021	9789811341647	VECC, Kolkata	Springer Science and Business Media Deutscherland GmbH
914	Sarbjit Pat, Siva Choudhary	A computational study of irregular beam optics to build up an efficient tomographic sensor	Optics InfoBase Conference Papers	Computational Optical Sensing and Imaging, COSI 2021 - Part of OSA Imaging and Applied Optics Congress 2021	2021	9781557528209	VECC, Kolkata; BARC, Mumbai	The Optical Society
915	Satyaki Bhattacharya	Geddesian Inflation in Non-canonical Settings	Springer Proceedings in Physics	23rd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	SNP, Kolkata	Springer Science and Business Media Deutscherland GmbH
916	Satyaki Bhattacharya	Constraining Kikher Moduli Inflation from CMB Observations	Springer Proceedings in Physics	23rd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	SNP, Kolkata	Springer Science and Business Media Deutscherland GmbH
917	Satyaki Bhattacharya	Consequences of a CP-Transformed μ -flavored Froggert-Nelson Symmetry in a Neutrino Mass Model	Springer Proceedings in Physics	23rd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	SNP, Kolkata	Springer Science and Business Media Deutscherland GmbH
918	Shamika Banerjee	Nuclear Applications, Zirconium Alloys	Encyclopedia of Materials Metals and Alloys		2021	9780128197264; 9780128197332	BARC, Mumbai	Elsevier
919	Smiti R Mohanty	Basics of inertial electrostatic confinement fusion and its applications	AIP Conference Proceedings	14th Asia Pacific Physics Conference, APCC 2019	2021	9780735440630	IPR, Guwahati	American Institute of Physics Inc.
920	Smiti Chaudh	Advances in sensing plant diseases by imaging and machine learning methods for precision crop protection	Microbial Management of Plant Stresses: Current Trends, Application and Challenges		2021	9780328511920	BARC, Mumbai	Elsevier
921	Smiti Chaudh	Analysis of Genetic Variations and Genomic Insulinities in Mangrove species	Methods in Molecular Biology		2021	1064-3745	BARC, Mumbai	Humana Press Inc.
922	Smiti Chaudh	Molecular Detection of Magnaporthe oryzae from Rice Seeds	Methods in Molecular Biology		2021	1064-3745	BARC, Mumbai	Humana Press Inc.
923	Subhankar Mishra	Indian economy and Nutrition/Life	Proceedings of 2nd IEEE International Conference on Computational Intelligence and Knowledge Economy, ICCKE 2021	2nd IEEE International Conference on Computational Intelligence and Knowledge Economy, ICCKE 2021	2021	9781665426214	NISER, Bhubaneswar	Institute of Electrical and Electronics Engineers Inc.
924	Subhankar Mishra	QUARC: Quaternion multi-modal fusion architecture for face speech classification	Proceedings - 2021 IEEE International Conference on Big Data and Smart Computing, BigComp 2021	2021 IEEE International Conference on Big Data and Smart Computing, BigComp 2021	2021	9781728189246	NISER, Bhubaneswar	Institute of Electrical and Electronics Engineers Inc.
925	Subhankar Mishra	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	Springer Proceedings in Physics	18th International Conference on Modeling Decisions for Artificial Intelligence, MDAI 2021	2021	9783030895284	NISER, Bhubaneswar	Springer Science and Business Media Deutscherland GmbH
926	Subhasis Chattopadhyay	Test Bench Setup for Testing and Calibration of a Newly Developed SYNMECH-VTYPE ADC for CRAM/MLC Detectors	Advances in Intelligent Systems and Computing	International Conference on Frontiers in Computing and Systems, COMSYS 2020	2021	9789811578135	VECC, Kolkata	Springer Science and Business Media Deutscherland GmbH
927	Subhasis Chattopadhyay	Effects of Barium Anti-baryon Annihilation on the Antiproton to Antineutron Ratio in Relativistic Nuclear-Nuclear Collisions	Springer Proceedings in Physics	23rd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	VECC, Kolkata	Springer Science and Business Media Deutscherland GmbH
928	Subhasis Chattopadhyay, Satekha Mukhopadhyay, Vinay Bhusha Chandra	Prototype Test for Electromagnetic Calorimeter, POCAL at CERN-SPS Using Large Dynamic Range Readout Electronics	Springer Proceedings in Physics	23rd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	VECC, Kolkata; BARC, Mumbai	Springer Science and Business Media Deutscherland GmbH
929	Subhasis Chattopadhyay, Zahaver Akhamed	Performance of a Low-Resistive Bakelite RPC Using PAR Electronics	Springer Proceedings in Physics	23rd DAE-BRNS High Energy Physics Symposium, 2018	2021	9789811344075	VECC, Kolkata	Springer Science and Business Media Deutscherland GmbH
930	Suhroto Mukherjee	Hydrogen outgassing and permeation in stainless steel and its reduction for LHV applications	Materials Today: Proceedings	11th International Conference on Materials Processing and Characterization	2021	2214-7853	IPR, Guwahati	Elsevier Ltd
931	Sujay Bhattacharya	Dynamic Behavior of Swaged Plates in Water-Immersed Condition	Lecture Notes in Mechanical Engineering	11th International Conference on Vibration Problems, I-VAP 2017	2021	9789811558610	BARC, Mumbai	Springer Science and Business Media Deutscherland GmbH
932	Sujay Bhattacharya	Free Vibration Analysis of Resistor-Mass/In Plates Using FEM/CS	Lecture Notes in Civil Engineering	National Conference on Recent Advances in Structural Engineering, NCRASE 2020	2021	9789811363385	BARC, Mumbai	Springer Science and Business Media Deutscherland GmbH
933	Sujay Bhattacharya	Automated Modeling of Swaged Resistor-Mass/In Plates Using FEM/CS	Springer Proceedings in Materials		2021	2662-3161	BARC, Mumbai	Springer Nature

924	Surek Kumar Gupta	Development of Modified Cyclic Plasticity Model to Simulate Cyclic Behavior for SA333C 90 Steel Under LCF Loading Condition	Lecture Notes in Mechanical Engineering	1st International Conference on Recent Advancements in Mechanical Engineering, ICRAE 2020	2021	978911577109	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
925	Suresh Kumar Patra	Role of temperature-dependent binding energies in 200-12C reaction dynamics	AIP Conference Proceedings	5th National e-Conference on Advanced Materials and Radiation Physics, AMPF 2020	2021	9780715441057	I.P. Bhubaneswar	American Institute of Physics Inc.
926	Suresh Kumar Patra	Effective surface properties of light and medium mass exotic nuclei	Seminor Proceedings in Physics	Indo-French Workshop on Multi-generation, Collective Flow, and Sub-Threshold Particle Production in Heavy Ion Reactions, 2019	2021	978911193610	I.P. Bhubaneswar	Springer Science and Business Media Deutschland GmbH
927	Sruva Kumar Pathak	Design and Simulation of a Water based Polarization-insensitive and Wide Incident Angle Metasurface Absorber for X, Ku, and K-band	2021 IEEE Indian Conference on Antennas and Propagation, IICAP 2021	2021 IEEE Indian Conference on Antennas and Propagation, IICAP 2021	2021	9781665491104	IFP, Gandhinagar	Institute of Electrical and Electronics Engineers Inc.
928	Sruva Kumar Pathak	Simulation study of Lambertian Lens on K-band horn antenna for FMC-W Reflectometry Applications	2021 IEEE Indian Conference on Antennas and Propagation, IICAP 2021	2021 IEEE Indian Conference on Antennas and Propagation, IICAP 2021	2021	9781665491104	IFP, Gandhinagar	Institute of Electrical and Electronics Engineers Inc.
929	Sruva Kumar Pathak	Polarization-Insensitive Metasurface based Switchable Absorber/Resistor	Asia-Pacific Microwave Conference Proceedings, APAC 2021	2021 IEEE Asia-Pacific Microwave Conference, APAC 2021	2021	9781665437820	IFP, Gandhinagar	Institute of Electrical and Electronics Engineers Inc.
930	Sruva Kumar Pathak	Design and Simulation of a Polarization-Independent Switchable Metasurface Resistor/Absorber	2021 IEEE MTT-S International Microwave and RF Conference, IMARC 2021	2021 IEEE MTT-S International Microwave and RF Conference, IMARC 2021	2021	9781665458757	IFP, Gandhinagar	Institute of Electrical and Electronics Engineers Inc.
931	Sruva Kumar Pathak	Guided and Leaky Mode Radiation Characteristics of Solid Dielectric Pyramidal Horn Antenna	2021 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, APSURS 2021 - Proceedings	2021 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, APSURS 2021	2021	9781728146706	IFP, Gandhinagar	Institute of Electrical and Electronics Engineers Inc.
932	Sudhima Gupta	Incremental Real-Time Learning Framework for Sentiment Classification- Indian General Election 2019- A Case Study	2021 IEEE on International Conference on Big Data Analytics, ICDA 2021	4th IEEE International Conference on Big Data Analytics, ICDA 2021	2021	9780718116172	DMS, Chennai	Institute of Electrical and Electronics Engineers Inc.
933	Sudhima Gupta	Parameterized Complex of q-Hitting Set with Oracles	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	47th International Conference on Current Trends in Theory and Practice of Computer Science, ICTCS 2021	2021	9783030677305	DMS, Chennai	Springer Science and Business Media Deutschland GmbH
934	T A Divyakanth	Parameter Estimation and Calibration of Parallel Mechanism Based Robots	Lecture Notes in Mechanical Engineering	5th Asian Mechanism and Machine Science Conference, MMS 2018	2021	9789811544767	BARC, Mumbai	Springer
935	Tannusa Sree Rama Chandra Murthy	Structural and thermostructural ceramics	Encyclopedia of Materials: Technical Ceramics and Glasses		2021	9780128223311; 9780128185421	BARC, Mumbai	Elsevier
936	Tannu Ramesh Tani	Emerging Polymer-Based Nanomaterials for Cancer Therapeutics	Nanosubstrates in the Life Sciences		2021	2523-8037	TMC, Mumbai	Springer Science and Business Media B.V.
937	Venkatesh Raman	Parameterizing Role Coloring on Forests	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	47th International Conference on Current Trends in Theory and Practice of Computer Science, ICTCS 2021	2021	9783030677305	DMS, Chennai	Springer Science and Business Media Deutschland GmbH
938	Venkatesh Raman	Fast FFT Algorithms for Detection of Pairs of Graph Cluses	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2nd International Symposium on Fundamentals of Computational Theory, FCT 2021	2021	9783030869924	DMS, Chennai	Springer Science and Business Media Deutschland GmbH
939	Venkatesh Raman	Sublinear Space Approximation Algorithms for Max-iSAT	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	17th International Conference on Computing and Combinatorics, COCCON 2021	2021	9783030895426	DMS, Chennai	Springer Science and Business Media Deutschland GmbH
940	Venu Bhaskar Chandrase	Electronics and DAQ for the Magnetized mini ICAL Detector at ICRHEP	Seminor Proceedings in Physics	12th DAE-BRNS High Energy Physics Symposium, 2018	2021	978911344075	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
941	Vinod Singh Rawat	Multilayer Dielectric Thin Film Optical Coating Design for Single Wavelength Operation of Intensity Dual Wavelength Copper Vapor Laser	Seminor Proceedings in Physics	International Conference on Optics and Electronics, ICVOE, 2019	2021	9789111592584	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
942	Vinodh Kothan	The white beam station at imssrb beamline BE-4, India-2	Journal of Synchrotron Radiation		2021	0909-4245	BARC, Mumbai	International Union of Crystallography
943	Yashu Pundarik	Flow Response Spectra Generation Considering Nonlinearity of Reinforced Concrete Shear Walls	Lecture Notes in Civil Engineering	7th International Congress on Computational Mechanics and Simulation, 2019	2021	97898111581373	BARC, Mumbai	Springer Science and Business Media Deutschland GmbH
944	Zaidi Khan	Out-gassing measurement of air-baked SS 304L material by gravimetric method	Materials Today: Proceedings	11th International Conference on Materials Processing and Characterization	2021	2214-7855	IFP, Gandhinagar	Elsevier Ltd
945	Prof. Aswari D Rath	Laser based Isotope Selective Photoionization for Enrichment of ¹⁰⁰ Yb, ¹⁰¹ Yb and ¹⁰² Yb	BARC Newsl. no. 2022, 381, pp3-17		2022	ISSN 0976-2108	BARC & HINI	
946	Prof. Aswari D Rath	Development and Application of Single-Longitudinal Mode Optical Parametric Oscillator for Selective Photoionization Studies on Lu-176 Isotopes	BARC Newsl. no. 2022, 381, pp9-17		2022	0976-2108	BARC & HINI	
947	Prof. Aswari D Rath	Three step three colour selective photoionization of natural ytterbium for enrichment of ¹⁰⁰ Yb	DAE-BRNS NLS-30	National Laser Symposium	2022	NA	BARC & HINI	
948	Prof. Aswari D Rath	Efficient generation of Laser radiation in the range 605-620 nm using 532 nm pumped Rhodamine Dyes in aqueous medium	DAE-BRNS NLS-30	National Laser Symposium	2022	NA	BARC & HINI	
949	Prof. Aswari D Rath	Special characteristics of the 535 nm pumped tunable SLM OPO for selective photoionization studies	DAE-BRNS NLS-30	National Laser Symposium	2022	NA	BARC & HINI	
950	Prof. Aswari D Rath	Characterization of atomic vapour source for ytterbium by mass spectroscopic detection in OMS	DAE-BRNS VSTAA-2022	VSTAA	2022	NA	BARC & HINI	
951	Prof. Aswari D Rath	TOPMS for RIMS and related applications	DAE-BRNS VSTAA-2022	VSTAA	2022	NA	BARC & HINI	
952	Prof. Anup Kumar Bera	Book Chapter "Neutron Scattering Program at Dhruva Reactor: Applications to Advanced Materials Research" in Book "Non-power Application of Nuclear Technologies" Edited by A. K. Tyagi and A. K. Mohanty			2021	978-81-954733-3-5	BARC	SRD, BARC
953	Prof. Anup Kumar Bera	Book Chapter "Functional Properties: Structure-Properties Correlations" in Book "Framework crystals: new trends and perspectives" Edited by: Pierre Saint-Gregoire and Mikhal Szwarc			2021	978981112	BARC	Publisher: Collaborating Academics, FRANCE
954	Prof. Debasis Sen	Drying of Tiny Colloidal Droplets: A Novel Synthesis Strategy for Nanostructured Microparticles			2022	978-9-81-161805-4, 978-9-81-161805-1	BARC	Springer Nature Singapore Pte. Ltd., Editors: A. K. Tyagi, Raghunath S. Nigroshojam, pp 143-174 (2022)
955	Prof. Debasis Sen	Neutron Scattering program at Dhruva Reactor: Application to Advanced Materials Research			2021	978-81-954733-2-8	BARC	SRD, BARC/Editors: A.K. Tyagi, A.K. Mohanty
956	Prof. Parashottam Ha	Process Development for Lab-Scale Fabrication of Plastic Scintillators from Commercial Polyethylene Resin	Proceedings of the DAE Symp on Nucl. Phys., 65 (2021), 762-763.	DAE symposium on Nuclear Physics	2021	Proceedings of the DAE Symp on Nucl. Phys., 65 (2021), 762-763.	BARC & HINI	http://www.sympo.org/proceed
957	Prof. Parashottam Ha	Study of recombination mechanisms in organic solar cells by electrochromance and light stability factor	AIP Conference Proceedings	ADVANCED MATERIALS AND RADIATION PHYSICS (AMPF-2020) 5th National e-Conference on Advanced Materials and Radiation Physics	2021	978-0-7354-4105-7	BARC & HINI	AIP Publishing LLC
958	Prof. Parashottam Ha	Improvement in the performance of perovskite solar cells by reducing defect density with antiolevent treatment	Proceedings of the DAE Symp on Nucl. Phys., 65 (2021), 762-763.	First International Conference on Technologies for Smart Green Connected Society 2021	2021	https://psat.org/techrep/article/view/2015	BARC & HINI	
959	Prof. R. C. Das	Beam Technology Development in BARC Laser & Plasma, (eds. Manin Macrae and Acham Sharma)	TOPMS: Some Basic Concepts and Applications		2022	978-81-954733-0-4	BARC	SPAST Abstracts
960	Prof. R. C. Das	Time-of-flight Mass Spectrometer for RIMS and Related Applications	Book of Abstracts IVS Symposium VSTAA-2022	IVS Symposium VSTAA-2022	2022		BARC	SRD
961	Prof. R. C. Das	Augmentation of the Experimental Set-up for Laser National Laser Symposium (NLS-30)	Proceedings of 30th DAE-BRNS National Laser Symposium (NLS-30)	30th DAE-BRNS National Laser Symposium (NLS-30)	2022		BARC	
962	Prof. R. C. Das	Three-step three-colour selective photoionization of natural ytterbium for enrichment of Yb-100	Proceedings of 30th DAE-BRNS National Laser Symposium (NLS-30)	31st DAE-BRNS National Laser Symposium (NLS-30)	2022		BARC	
963	Prof. R. C. Das	Three-colour isotope selective photoionization of Ytterbium for Yb-174 enrichment	Proceedings of 30th DAE-BRNS National Laser Symposium (NLS-30)	32nd DAE-BRNS National Laser Symposium (NLS-30)	2022		BARC	
964	Prof. R. C. Das	98 100%o Enrichment by Infrared Multi-photon Dissociation of MOF6	Chem. Phys. Lett., 787, 139262		2021	ISSN 0976-2108	BARC	
965	Prof. Amit Kumar	Non-power applications of nuclear technologies / Neutron scattering program at Dhruva reactor			2021	ISBN 978-81-954733-3-5	BARC	Scientific Information Resource Division, BARC
966	Prof. S. M. Yusuf	Functional Properties: Structure-Properties Correlations Chapter in an Edited book on "Framework crystals: new trends and perspectives"			2021	ISBN 978-81-954733-3-5	BARC	Scientific Information Resource Division, BARC
967	Prof. S. M. Yusuf	Chapter in an Edited book on "Framework crystals: new trends and perspectives"			2021	ISBN 978983066497	BARC	Collaborating Academics, France
968	Prof. Rajeev Kumar	Experimental and operational reactor physics			2021	ISBN 978-0-12-822441-0	BARC	Academic Press(Elsevier)
969	Prof. Rajeev Kumar	Measurement of neutron fluxes incident on Neutron Transmission Doped Si samples irradiated in Apsara Reactor	DAE Solid State Physics Bulletin		2021		BARC	
970	Prof. Rajeev Kumar	Neutron flux attenuation measurements in borated polyethylene blocks at Apsara-U reactor	DAE Symposium on Nuclear Physics		2021		BARC	
971	Prof. Rajeev Kumar	Estimation of eq-thermal self-shielding factor for activation detectors at irradiation positions of Apsara Reactor	TOPMS: Some Basic Concepts and Applications		2022		BARC	
972	Prof. Rajeev Kumar	Headgroup-Specific Interaction of Biological Lipid Monolayer/Water Interface with Perfluorinated Persistent Organic Pollutant (PFOP): As Observed with Interface-Selective Vibrational Spectroscopy			2022	1520-6106	BARC, HINI	ACS

984	J A Mondal		Interaction of Zwitterionic Osmolyte Trimethylamine Oxide (TMAO) with Molecular Hydrophobes: An Interplay of Hydrophobic and Electrostatic Interactions			2021	1520-6107	BARC, HBNI	ACS
985	J A Mondal		Hydrophobic Electrolyte (NaXCl ₃ NaF) Perturbs Air/Water Interface through Anion Hydration Shell			2021	1520-6108	BARC, HBNI	ACS
986	K.K. Swain	Non-Power Applications of Nuclear Technologies		Natural Actinometer Analysis: A Versatile Nuclear Analytical Technique for Chemical		2021	ISBN: 978-81-954733-2-8	BARC	BARC
987	Mainak Roy		Molecular and FTIR studies on Antimony and Tellurium loaded Ion Phosphate Glass	8th Interdisciplinary Symposium on Materials Chemistry (ISM-C-2020)	National	2021	DOI:10.1515/nuka-2015-0028	BARC	
988	Mainak Roy		Effect of Neodymium Loading in Ion Phosphate Glass	60th IAEA Solid State Physics Symposium	National	2021	51088456	BARC	
989	Dr. R. S. Ningthoujam	Handbook on Synthesis Strategies for Advanced Materials: Volume C: Technology and Implementation (2021)			International	2021	9811618097	BARC	Springer Nature
990	R. S. Ningthoujam	Handbook on Synthesis Strategies for Advanced Materials: Volume B: Processing and Functionalization of materials			International	2021	981161802X	BARC	Springer Nature
991	R. S. Ningthoujam	Handbook on Synthesis Strategies for Advanced Materials: Volume III: Materials specific synthesis strategies (2021)			International	2021	9811618017	BARC	Springer Nature
992	R. S. Ningthoujam	Chapter: Hot injection method for nanoscale synthesis: Ink, complex, emulsion, and applications			International	2021	9811618097	BARC	Springer Nature
993	R. S. Ningthoujam	Chapter: Synthesis, characterization, physical properties and applications of metal borides			International	2021	9811618017	BARC	Springer Nature
994	R. S. Ningthoujam	Chapter: Synthesis and applications of borides, carbides, nitrides and silicides			International	2021	9811618017	BARC	Springer Nature
995	R. S. Ningthoujam	Chapter: Synthesis of nanostructured materials by thermolysis			International	2021	9811618097	BARC	Springer Nature
996	R. S. Ningthoujam	Chapter: Particle size and shape engineering for advanced materials			International	2021	981161802X	BARC	Springer Nature
997	R. S. Ningthoujam	Chapter: Synthesis and Processing of Magnetic based Nanomaterials for Biomedical Applications			International	2021	981161802X	BARC	Springer Nature
998	R. S. Ningthoujam	Chapter: Synthesis and Characterization of Quantum Carbon Dots/Graphene Materials			International	2021	9811618017	BARC	Springer Nature
999	Dr. Subir Kumar Gosh	Handbook on Synthesis on Synthesis Strategies for Advanced Materials, Vol. II: Processing and				2022	978-981-16-1802-4	BARC	Springer
1000	Subir Kumar Gosh		Evidence of rutile to anatase phase transition of TiO ₂ thin film electrode during 1st discharging cycle of Li-ion battery	Journal of Alloys and Compounds, 911, 169119		2022	0254-8338		
1001	Subir Kumar Gosh		Remarkably high capacity Li-ion batteries with of sputter deposited TiO ₂ thin film anodes on SS	Applied Surface Science, 592, 152373		2022	0169-4332		
1002	Subir Kumar Gosh	Deposition of Zirconium Nitride Thin Film by Reactive Sputtering and Its Characterization		DAE-BRNS International Symposium on Vacuum Science and Technology and its Applications in Accelerators (VSTAA-2022), February-2022		2022	1551-7616		
1003	Subir Kumar Gosh	Deposition and Characterization of Corrosion Resistant Al ₂ O ₃ Thin Film on KAlM Steel by RF Magnetron Sputtering		DAE-BRNS International Symposium on Vacuum Science and Technology and its Applications in Accelerators (VSTAA-2022), February-2022		2022			
1004	Subir Kumar Gosh	Microstructure and mechanical properties of SS304L/Nb vacuum brazed joint		Symposium on Vacuum Science and Technology and its Applications in Accelerators (VSTAA-2022),		2022			
1005	Suchismita Mishra	Development of a Machine Learning based Nuclear Forensic Analysis Tool		Proceedings of 15 th Biennial DAE BRNS Symposium Nuclear and Radiochemistry (NLCAR-2021)	International	2022		BARC	
1006	Suchismita Mishra	Study on Organic Carbon Dependency on Sorption of Uranium in Organic Rich Soil		Proceedings of 15 th Biennial DAE BRNS Symposium Nuclear and Radiochemistry (NLCAR-2021)	International	2022		BARC	
1007	Suchismita Mishra	Study on Sorption Kinetics of Cs for Estimation of Site Specific K _d in Soil Sample Collected near Waste Management Facility (WMP) at Rawarbhata.		Proceedings of 15th Biennial DAE BRNS Symposium Nuclear and Radiochemistry (NLCAR-2021)	International	2022		BARC	
1008	Suchismita Mishra	Study on kinetics and parameters influencing the cobalt sorption in soil samples collected from DAE site Visakhapatnam		Proceedings of DAE Second Symposium on Current Trends in Analytical Chemistry (CTAC-2021)	National	2021		BARC	
1009	Suchismita Mishra	Competitive Sorption among Pb, Cd and Cu in Soil Samples around Trombay Dumping Ground near BARC Trombay.		Proceedings of DAE Second Symposium on Current Trends in Analytical Chemistry (CTAC-2021)	National	2021	978-81-963920-6-7	BARC	
1010	Suchismita Mishra	Sorption behaviour and migration study of Cs in soil at New BARC Site Visakhapatnam.		Proceedings of DAE Second Symposium on Current Trends in Analytical Chemistry (CTAC-2021)	National	2021	978-81-963920-6-7	BARC	
1011	Suchismita Mishra	Neutron activation Analysis Technique for development of Nuclear Forensic signatures for nuclear materials		Book of abstracts, DAE-BRNS Strategic Planning for Enhancing Research Reactor Utilization, RRU-2022	National	2021		BARC	
1012	Anand Badamannavar	Non-power Applications of Nuclear Technologies" (Eds. Tripathi A.K. and Mohapatra A.K.)		Radiation technology for genetic enhancement of crop plants	National	2021	978-81-954733-2-8	BARC Mumbai	SRD, BARC, Mumbai
1013	Anand Badamannavar	Genome: Designing for Better, Stress Resistant Cereals Crops (Ed. C. Kole)		Genomic Designing for Better, Stress Resistant Cereals	International	2021	ISBN 978-3-030-91034-1	BARC Mumbai	Springer Nature Switzerland AG
1014	Anand Badamannavar	Accelerated Plant Breeding, Vol. 4. (Eds. Goyal S.S., Wani J.H.)		Genetic Enhancement of Groundnut: Current Status and Future Prospects	International	2022	ISBN 978-3-030-81108-8	BARC Mumbai	Springer Nature Switzerland AG
1015	Archana N. Rai	The Brassicaceae Genome: Compendium of Plant Genomes		Transcriptomics Research and Resources in Brassica spp.		2022	DOI:10.1007/978-3-030-91507-0		Springer
1016	Devashish Rath	CRISPR-Cas system for functional genomics of filamentous fungi: applications and challenges				2021	978-0128210256	BARC HBNI	Academic Press Elsevier
1017	Devashish Rath	Studies on Type I-E CRISPR-Cas system: biology to application		Proceedings of National conference on CRISPR-Cas: From Biology to Technology	National	2021	https://doi.org/10.1178/mphere.00030.22	BARC HBNI	
1018	Ravindra D. Mohale		Single crystal X-ray diffraction and Single wavelength anomalous dispersion (SAD) of insecticidal toxin on protein crystallography beamline	48th National Seminar on Crystallography (NSE-48) Held during 25-27 November, 2021	National	2021		BARC HBNI	
1019	Ravindra D. Mohale		Crystallization Of Insecticidal Toxin, Tsp40 From <i>Nosema heliothidis</i>	60th IAEA Solid State Physics Symposium (DAE-SSPS), Held during 15-19 December, 2021	National	2021		BARC HBNI	
1020	Ravindra D. Mohale		X-ray diffraction and SAXS study on recombinant Heme detoxification protein.	48th National Seminar on Crystallography (NSE-48) Held during 25-27 November, 2021	National	2021		BARC HBNI	
1021	Ravindra D. Mohale		Investigation into Heme detoxification protein of <i>molitoria aeraria</i>	60th IAEA Solid State Physics Symposium (DAE-SSPS), Held during 15-19 December, 2021	National	2021		BARC HBNI	
1022	J. Sraffamann	Breeding for Enhanced Nutrition and Bio-Active Compounds in Food Legumes		Breeding for Low Phytates and Oligosaccharides in Mungbean and Blackgram	International	2021	978-3-030-59214-1	Bhabha Atomic Research Centre, Trombay, Mumbai 400085	Springer Cham
1023	Dr Rahul Paragane	PET/CT based Quantitative Parameters for Assessment of Treatment Response and Disease Activity in Glioma and Neuroendocrine Disorders				2022	PMID: 35717102	RMC, BARC, HBNI, Mumbai	Elsevier Inc.
1024	Dr Rahul Paragane	Peptide Receptor Radionuclide Therapy of Neuroendocrine Tumors				2020	PMID: 32768008	RMC, BARC, HBNI, Mumbai	Elsevier Inc.
1025	Dr Rahul Paragane	PET Computed Tomography in Treatment Response Assessment in Cancer: An Overview with Emphasis on the Evolving Role in Response Evaluation to Immunotherapy and Radiation Therapy				2020	PMID: 31752527	RMC, BARC, HBNI, Mumbai	Elsevier Inc.
1026	Dr Rahul Paragane	Surgical Feasibility, Determinants, and Overall Efficacy of Neoadjuvant ¹⁷⁷ Lu-DOTATATE PRRT for Locally Advanced Unresectable Gastroenteropancreatic Neuroendocrine Tumors				2021	PMID: 3367590	RMC, BARC, HBNI, Mumbai	Society of Nuclear Medicine and Molecular Imaging
1027	Dr Rahul Paragane	Long-term outcome of "Sandwich" chemo-PRRT: a novel treatment strategy for metastatic neuroendocrine tumes with both FDG- and SST2R-avid aggressive disease				2021	PMID 32876706	RMC, BARC, HBNI, Mumbai	Springer Nature