

BOOKS 2024-25							
Department of Biological Sciences and Bioengineering							
S. No.	Book Title	Editor(s)/Author(s)	Publisher	Year	Place	ISBN.	
1	Emerging Materials and Technologies for Bone Repair and Regeneration	Ashok Kumar, Sneha Singh, Prerna Singh	Taylor & Francis/CRC Press, Boca Raton, USA	2024	USA	9781003307310 (ebk)	
Department of Chemical Engineering							
2	ChE Triad: Lecture Notes Series Chemical Engineering	Nishith Verma	Ane Books Pvt. Ltd., New Delhi;	2024		9788119662920	
3	ChE CRE: Homogeneous Chemical Reaction Engineering	Nishith Verma	Ane Books Pvt. Ltd., New Delhi	2024		9788197888694	
Department of Electrical Engineering							
4	FinFET/GAA Modeling for IC Simulation and Design: Using the BSIM-CMG Standard (Second Edition)	Yogesh Singh Chauhan, Girish Pahwa, Avirup Dasgupta, Darsen Lu, Sriram Venugopalan, Sourabh Khandelwal, Juan P. Duarte, Navid Paydavosi, Ali M. Niknejad, and Chenming Hu	Academic Press, Elsevier	2024			
5	GaN Transistor Modeling for RF and Power Electronics: Using The ASM-HEMT Model	Yogesh Singh Chauhan, Sheikh Aamir Ahsan, and Ahtisham Ul Haq Pampori	Woodhead Publishing, Elsevier	2024			
6	Artificial Intelligent Algorithms for Image Dehazing and Non-Uniform Illumination Enhancement	Teena Sharma , Nishchal K. Verma	Springer Nature	2024			
7	Constrained Reinforcement Learning with Average Reward Objective: Model-Based and Model-Free Algorithms	V. Aggarwal, W. U. Mondal, and Q. Bai	Now Publisher Inc.	2024			
Department of Humanities and Social Sciences							

8	Environmental and Ecological Sustainability Through Indigenous Traditions: Perspectives from the Global South	Binay Kumar Pattnaik	Springer	2024		978-981-19-7078-8	
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Department of Management Sciences

9	Optimization Essentials Theory, Tools, and Applications	Hamid F.	Springer Singapore	2024	Singapore	978-981-99-5491-9	
10	Gender and Power Sector Regulation	Salgotra A.; Singh A.	Centre for Energy Regulation (CER)	2025	IIT Kanpur	978-93-3414-231-0	

Department of Mechanical Engineering

11	Ammonia and Hydrogen for Green Energy Transition	Sudarshan Kumar, Avinash K. Agarwal, Bhupendra Khandelwal, Paramvir Singh		2024			
12	Decarbonization of Maritime Transport	Burak Zincir, Pravesh Chandra Shukla, Avinash Kumar Agarwal		2024			
13	Application of Clean Fuels in Combustion Engines	Gabriele Di Blasio, Avinash Kumar Agarwal, Giacomo Belgiorno, Pravesh Chandra Shukla		2024			
14	Challenges and Opportunities of Distributed Renewable Power	S De, AK Agarwal, P Kalita		2024			

Department of Sustainable Energy Engineering

15	Role of flavonoids in chronic metabolic diseases: From bench to clinic	Mishra N.;Ashique S.;Jaswanth Gowda B.H.;Farid A.;Garg A.		2024			
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BOOK CHAPTER 2024-25

Department of Biological Sciences and Bioengineering

S. No.	Book Title	Editor(s)	Author(s)	Publisher	Year	Page numbers (start to end)	ISBN.
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1	Recent Advances in Analytical Techniques to Analyse the Purity of Recombinant Proteins		Ujwalkumar Trivedi, Sakshi Keshari, Chitral Chatterjee, Saravanan Matheshwaran*, Nagarajan Kayalvizhi, Muthukaligan Khrishnan and Neelamegam Rameshkumar		2024		
2	Recent Advances in Analytical Techniques to Analyse the Purity of Recombinant Proteins		Ujwalkumar Trivedi, Sakshi Keshari, Chitral Chatterjee, Saravanan Matheshwaran*, Nagarajan Kayalvizhi, Muthukaligan Khrishnan and Neelamegam Rameshkumar		2024		
3	Chapter title: Recent Advances in Characterization Techniques for Bone Substitutes In: Emerging Materials and Technologies for Bone Repair and Regeneration	Ashok Kumar, Sneha Singh and Prerna Singh	Aman Nikhil, Ashok Kumar	Taylor & Francis/CRC Press, Boca Raton, USA	2024	129-149	9781003307310 (ebk)
4	Chapter title: Next-generation theranostic tool in bone repair and skeletal metabolism with Exosomes. In: Emerging Materials and Technologies for Bone Repair and Regeneration	Ashok Kumar, Sneha Singh and Prerna Singh	Sneha Gupta, Prerna Singh, Ashok Kumar	Taylor & Francis/CRC Press, Boca Raton, USA	2024	347-367	9781003307310 (ebk)

5	Chapter title: Recent advances in biodegradable implants in bone tissue engineering. In: Emerging Materials and Technologies for Bone Repair and Regeneration	Ashok Kumar, Sneha Singh and Prerna Singh	Shazia Shaikh, Rupita Ghosh, Ashiq Hussain Pandit, Shreya Mehrotra, Ashok Kumar	Taylor & Francis/CRC Press, Boca Raton, USA	2024	109-128	9781003307310 (ebk)
6	Chapter title: Clinically relevant bone diseases and bone fracture animal models. In: Emerging Materials and Technologies for Bone Repair and Regeneration	Ashok Kumar, Sneha Singh and Prerna Singh	Irfaan Qayoom, Ekta Srivastava, Ashok Kumar	Taylor & Francis/CRC Press, Boca Raton, USA	2024	368-386	9781003307310 (ebk)
Department of Chemical Engineering							
7	Graphene-based fiber shape supercapacitors for flexible energy storage applications		Tyagi A.;Balasubramanian B.;Gupta R.K.		2024	190-211	
Department of Chemistry							
8	A hydrogen atom under strong magnetic fields		Sadhukhan P.;Sadhukhan M.		2024	299-318	
Department of Civil Engineering							
9	The basic concept of 3d printing and its application in dermatological conditions		Sharma M.K.;Ajazuddin ;Vishwakarma U.;Devangan V.;Verma D.;Jain P.		2024	29	
10	Role of Biochar Technology in Carbon Sequestration and Agro-Environmental Sustainability		A Tripathi, PK Dubey, MK Upadhyay, P Bose	Springer Nature Switzerland	2024		

11	The panzootic spread of highly pathogenic avian influenza H5N1 sublineage 2.3. 4.4 b: a critical appraisal of One Health preparedness and prevention		Marion PG Koopmans, Casey Barton Behravesh, Andrew A Cunningham, Wiku B Adisasmito, Salama Almuhairi, P��p�� Bilivogui, Salome A Bukachi, Natalia Casas, Natalia Cedi��l Becerra, Dominique F Charron, Abhishek Chaudhary, Janice R Ciacci Zanella, Osman Dar, Nitish Debnath, Baptiste Dungu, Elmoubasher Farag, George F Gao, Margaret Khaita, Catherine Machalaba, John S Mackenzie, Wanda Markotter, Thomas C Mettenleiter	Elsevier	2024		
12	Construction Methods (Construction Engineering & Management)		C Kothari	All India Council for Technical Education			
13	On Applicability of Local Inertia Model for Integrated Surface-Subsurface Flow (Riverine, Estuarine and Marine Hydraulics)		A Kumar, G Pahar	Springer Nature	2024	465	

14	Seismic Collapse Risk of Stone Masonry Buildings in the Indian Himalayas (The International Conference on Net-Zero Civil Infrastructures: Innovations in Materials, Structures, and Management Practices (NTZR))		R Shastri, S Ray-Chaudhuri, Y Singh	Springer Nature Switzerland	2024	1395-1407	
15	Sustainable Preservation and Evaluation of Burnt Brick Masonry Structures Through Condition Assessment and Retrofitting Techniques(The International Conference on Net-Zero Civil Infrastructures: Innovations in Materials, Structures, and Management Practices (NTZR))		L Latha, S Ray-Chaudhuri	Springer Nature Switzerland	2025	1289-1299	
16	A simplified procedure for FE analysis of an earth dam under seismic loading (Geotechnical Engineering Challenges to Meet Current and Emerging Needs of Society)		A Choudhury, P Ghosh, SK Mishra	CRC Press	2024	1066-1071	
Department of Cognitive Science							
17	Being a Kalpwasi: Pilgrimage and Identity on the Banks of the Ganga		Hopkins N.;Reicher S.D.;Srinivasan N.		2024	147-164	
Department of Earth Sciences							
18	Geomorphological evidences of the Anthropocene: Deltaic landscapes. In: Encyclopaedia of the Anthropocene.	Scott Elias	Sinha, R.	Elsevier	2025		

28	Robust measures of goodness-of-fit and outlier detection in linear regression models		Shalabh T.;Dhar S.S.;Garg G.		2025	462-499	
29	Goodness of Fit Based and Variable Selection in Non-parametric Measurement Error Model	Chandra Shekhar and Raghaw Raman Sinha	Shalabh, Subhra Sankar Dhar, Chitradeepa Chakroborty and Prashant Jha	Taylor & Francis, CRC Press	2024	1--33	

Department of Materials Science and Engineering

30	Effect of External Magnetic Field on Grain Boundary Migration in Non-magnetic Systems: A Phase-Field Study		Bandyopadhyay, Soumya Bhowmick, Somnath Mukherjee, Rajdip	springer	2024	75--82	978-981-99-6862-6
31	Friction stir welding – a solution for dissimilar material joining: Advanced Joining Technologies		Sunil Sinhmar and K. Mondal	CRC Press	2024	27	9781003327769
32	Progress in Two-dimensional Ferroelectrics and Potential Applications		Ateeb Naseer, Yogesh Singh Chauhan, Amit Agarwal, Somnath Bhowmick	CRC Press	2024		

Department of Sustainable Energy Engineering

33	Role of flavonoids in ros-mediated cardiovascular disorders		Chenchula S.;Anitha K.;Garg A.;Ashique S.;Ghanta M.K.;Mishra N.		2024	417-457	
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CONFERENCE 2024-2025

Department of Aerospace Engineering

S. No.	Conference Name	Conference Title	Author(s)	Volume	Year	Page numbers (start to end)	Location
1	Proceedings of the International Conference on Advances in Aerospace and Energy Systems	Soot Emission Prediction of Hydrocarbon Fuels using Machine Learning and Deep Learning Algorithms	Goklani M.; Thaviti S.R.; Singh A.V.		2024		

2	Proceedings of the International Conference on Advances in Aerospace and Energy Systems	Effect of Flame Temperature and Particle Residence Time on Soot Particle Size Distribution Functions of Premixed Stretch-Stabilized Flat Ethylene-Oxygen-Nitrogen Flames	Thaviti S.R.; Singh A.V.		2024		
3	Proceedings of the International Conference on Advances in Aerospace and Energy Systems	Investigating Flame Streak Behavior in Turbulent Wind-Driven Fires	Srivastava A.; Singh A.V.		2024		
4	The 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)	Investigating the Chemical Length Scales of Fuel-Sensitized Hydrogen-air Detonations	Singh R.K.; Dahake A.; Singh A.V.		2024		
5	The 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)	Detonation Cell Size Correlation for Hydrogen-Oxygen Mixtures	Dahake A.; Singh R. K.; Singh A.V.		2024		
6	The 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)	Understanding the Behavior of Coherent Flame Streaks in Turbulent Boundary-layer Flames	Srivastava A.; Singh A.V.		2024		
7	The 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)	Distribution of Local Heat Fluxes in Turbulent Wind-Driven Fires	Sandeep B.V.; Srivastava A.; Singh A.V.		2024		
8	The 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)	Numerical Investigation on the Effect of Ozone Addition on Detonation Wave Structure Using Detailed Fuel Chemistry Model	Karthik A.S.; Singh R.K.; Dahake A.; Singh A.V.		2024		

9	The 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)	Assessment of Detonation Parameters of H ₂ -O ₂ /air Detonations in the Combined Presence of Inert Diluents and Ignition Promoters	Singh R. K.; Dahake A.; Singh A.V.		2024		
10	The 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)	Local Mass Burning Rate Correlation for Turbulent Boundary Layer Diffusion Flames Stabilized over a Condensed Fuel Surface	Srivastava A.; Singh A.V.		2024		
11	CI's 40th International Symposium – Emphasizing Energy Transition	Experimental investigation of flame morphology and instabilities in turbulent wind-driven flames	Srivastava A.; Sandeep B.V.; Singh, A.V.		2024		
12	High Speed Vehicle Science and Technology HiSST – 3	SWBLI effects of impinging shock on a flat plate in high Mach number flows	Aishwarya PS and Mohammed Ibrahim Sugarno		2024		
13	Lecture Notes in Mechanical Engineering	Damage Initiation and Strength Predictions of Randomly Oriented Strands of Prepreg-Based Discontinuous Composites	Bagla A.; Krishna Mohan P.R.; Mohite P.M.		2025	275-286	
14	Lecture Notes in Mechanical Engineering	A CDM-Based Modelling and Prediction of Progressive Damage in Z-Pinned Unidirectional Laminated Composites	Borchate S.; Bagla A.; Mohite P.		2025	365-377	

15	Lecture Notes in Mechanical Engineering	Thermomechanical Homogenization of Corrugated Core Sandwich Structure Using First Order Shear and Normal Deformation Theory	Khan N.;Chakraborty P.		2025	411-422	
16	The 16th International Conference on Fire Science and Engineering (Interflam 2025)	Characterization of Flame Geometry in Turbulent Wind-Driven Flames	Srivastava A.; Singh A.V.		2025		
17	The 16th International Conference on Fire Science and Engineering (Interflam 2025)	Effect of Unheated Starting Segment on Streak Behavior in Turbulent Boundary-Layer Flames	Sandeep B.V.; Srivastava A.; Singh A.V.		2025		
18	The 15th Asia-Pacific Conference on Combustion (ASPACC 2025)	Experimental Study of Detonation Wave Structure in the Presence of Inert Diluents	Singh R.K.; Dahake A.; Karthik A.S.; Singh A.V.		2025		
19	The 15th Asia-Pacific Conference on Combustion (ASPACC 2025)	Investigating the Effect of Ozonolysis on Ethylene - Oxygen Detonations	Dahake A.; Karthik A.S.; Singh R.K.; Singh A.V.		2025		
20	The 15th Asia-Pacific Conference on Combustion (ASPACC 2025)	Experimental Study of the Morphological Characteristics of Wind-Driven Flames under the Influence of Freestream Turbulence	Srivastava A.; Singh A.V.		2025		
21	The 15th Asia-Pacific Conference on Combustion (ASPACC 2025)	Experimental Study of Streak Behavior of Turbulent Wind-Driven Flames with Varying Unheated Starting Lengths	Sandeep B.V.; Srivastava A.; Singh A.V.		2025		

22	The 6th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2025)	The Effect of Initial Conditions on Hydrogen-Air-Diluent Detonations	Singh R.K.; Dahake A.; Karthik A.S.; Singh A.V.		2025		
23	The 6th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2025)	Numerical Investigation of the Inhibition of Hydrogen-Air Detonations Using Trimethyl Phosphate and Dimethyl Methyl Phosphonate	Dahake A.; Karthik A.S.; Singh R.K.; Singh A.V.		2025		
24	The 6th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2025)	Numerical Study of Ozone Sensitization and its Influence on the Detonation Wave Structure	Karthik A.S.; Singh R.K.; Dahake A.; Singh A.V.		2025		
25	The 6th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2025)	Experimental and Numerical Investigation of Soot Particle Size Distribution Functions in Premixed Burner-Stabilized Stagnation Flames	Thaviti S.R.; Singh A.V.		2025		
26	The 6th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2025)	Effect of Freestream Turbulence on Global Flame Geometry, Mass Burning Rate, and Puffing Frequency in Wind-Driven Boundary-Layer Flames	Srivastava A.; Singh A.V.		2025		
27	The 6th International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2025)	Experimental Study on the Effect of Varying Unheated Starting Segment on the Mass Burning Rate of Turbulent Wind-Driven Flames	Sandeep B.V.; Srivastava A.; Singh A.V.		2025		

28	30th International Colloquium on the Dynamics of Explosions and Reactive Systems "(30th ICDERS)	Enhancing the Lean Detonability Limit of Hydrogen-Oxygen Detonations using Ozone	Singh R.K.; Dahake A.; Karthik A.S.; Singh A.V.		2025		
29	30th International Colloquium on the Dynamics of Explosions and Reactive Systems (30th ICDERS)	Experimental and Numerical Analysis of the Cellular Detonation Structure for Ethylene-Oxygen Mixtures	Dahake A.; Karthik, A.S.; Singh R. K.; Singh A.V.		2025		
30	30th International Colloquium on the Dynamics of Explosions and Reactive Systems (30th ICDERS)	Inhibition of Hydrogen-air Detonations using Organophosphorus Compounds	Dahake A.; Karthik A.S.; Singh R.K.; Singh A.V.		2025		
31	30th International Colloquium on the Dynamics of Explosions and Reactive Systems (30th ICDERS)	Effect of Ozone Addition on the Detonation Wave Structure of Ethylene-Oxygen Systems	Karthik, A.S.; Dahake A.; Singh R.K.; Singh A.V.		2025		
32	30th International Colloquium on the Dynamics of Explosions and Reactive Systems (30th ICDERS)	Numerical Modeling of Vibrational Non-Equilibrium Detonations in Hydrogen-Oxygen Mixtures	Hussain M.; Dahake A.; Karthik A.S.; Singh R.K.; Singh A.V.		2025		
33	AIAA Science and Technology Forum and Exposition, AIAA SciTech Forum 2025	A highly automated unit-cell based brute-force approach for active metamaterials	Mondal S.;Mukhopadhyay T.;Naskar S.		2025		
34	Lecture Notes in Mechanical Engineering	Shock Mitigation Using a Wire Mesh Placed Outside the Shock Tube	Rajan R.;Sahoo A.K.;Javed M.;Poddar K.;Das D.		2025	661-667	
35	Lecture Notes in Mechanical Engineering	Insightful Perspective on Mist Film Cooling: Analysis of Turbulent Intensity and Momentum Flux	Verma A.;Kumar D.;Mishra D.P.		2025	607-624	

36	Lecture Notes in Mechanical Engineering	Numerical Study on Film Cooling: The Influence of Vortex Near Diffused Injection Exit	Verma A.;Kumar D.;Mishra D.P.		2025	625-639	
37	Lecture Notes in Mechanical Engineering	A Comparative Study of Swirl and Non-swirl Feed Injectors: Performance Analysis and Insights	Kumar D.;Verma A.;Kushari A.;Mishra H.;Kumar P.		2025	555-568	
38	Lecture Notes in Mechanical Engineering	A Fan-Shaped Twin-Fluid Nozzle for the FCC System: The Role of Impactor Bolt	Kumar D.;Verma A.;Kushari A.;Mishra H.;Kumar P.		2025	641-654	
39	Lecture Notes in Mechanical Engineering	Hydrokinetic Energy Utilization Assessment on Deployment of Circular Deflector for Savonius Turbine	Singh O.;Saini G.;De A.		2025	285-294	
40	Lecture Notes in Mechanical Engineering	Investigation of Low Emission Reverse Flow Combustors	Lakhiwal A.;Gupta S.;Nishad K.;Arghode V.		2025	579-591	
41	Lecture Notes in Mechanical Engineering	Flow-Field and Acoustic Characterization of Actively Controlled Jets via Steady Fluidic Injection	Singh A.;Perumal A.K.;Samanta A.		2025	295-307	
42	IndiaTrib 2024	A variable speed traction drive for rotary wing UAV applications	Sootail D.; Mathur T.D.; Thompson B.		2024		Kolkata
43	Vertical Flight Society 81st Annual Forum & Technology Display	Multi-objective Design Optimization of a Helicopter Tail Shaft	Sute P.P.; Verma P.; Mathur T.D.; Hajela P.		2025		Virginia Beach, VA, USA

44	AIAA Aviation Forum and Ascend 2024	Open-Source Parametric Airfoils to Study Geometric Effects on Buffet	Zauner M.; Lusher D.J.; Moise P.; Sansica A.; Hashimoto A.; Sandham N.D.		2024	3508	Las Vegas
45	AIAA Aviation Forum and Exposition 2024	Experimental Study on the Effect of Sinusoidal Trailing Edge for the Control of Reverse Flow on High-Speed Rotorcraft	Balasubramani R., Gokul R. S., Guha T. K.		2024		
46	IUTAM Transition 2024	Separation-bubble instability in transonic flows over symmetric airfoils	Das D.; Moise P.		2024		Nagano, Japan
47	Second Buffet Workshop	On the Sensitivity of Buffet and Separation-Bubble Modes to Geometric Properties of Airfoils	Zauner M.; Moise P.; Lusher D.J.; Sansica A.; Hashimoto A.; Sandham N.D.		2024		Chofu, Japan
48	Second Buffet Workshop	The link between transonic buffet on airfoils with low-frequency oscillations in the incompressible regime	Moise P.; Sandham N.D.; Rupini J.; Jain A.; Das D.		2024		Chofu, Japan
49	Lecture Notes in Mechanical Engineering	Evaluation of physics-informed machine learning approach for computation of fluid flows	Kumar P.; Ranjan R.		2025		
50	International Symposium on Experimental and Computational Aerothermodynamics of Internal Flows	Relaminarization Effects on SWTBLI Due to Upstream Expansion	Prabtani K.; Ranjan R.		2025		

51	31st ieee international conference on high performance computing, data, and analytics (HiPC)	Strategies for efficient gpu acceleration of a high-order 3d LES solver using openacc	Phirke Y.; Ranjan R.		2024		
52	Annual AeSI CFD symposium 2024	Simulations of propeller-wing interactions in a typical turboprop aircraft using virtual blade modeling	Srichaitanya K.; Pasupuleti P. K.; Ranjan, R.		2024		
53	Asian conference on gas turbines (ACGT) 2024	Predictions of heat-transfer on high-pressure turbine blades at varying turbulent intensities	Raj P.; Sethi V.; Ranjan, R.		2024		
54	Asian conference on gas turbines (ACGT) 2024	Numerical prediction and separation control of flows in a low-pressure turbine cascade at transonic conditions	Gupta R.; Jain A.; Ranjan, R.		2024		
55	10th symposium on applied aerodynamics and design of aerospace vehicles (SAROD) 2024	Passive flow control in realistic scramjets	Chauhan J.; Ranjan R.		2024		
56	10th symposium on applied aerodynamics and design of aerospace vehicles (SAROD) 2024	A GPU-enabled curvilinear LES solver for high-speed flows	Nidharia M.; Phirke Y.; Ranjan, R.		2024		
57	Proceedings of 12th international conference on computational fluid dynamics (ICCFD12)	Flow predictions behind naca 2412 aerofoil using physics-informed machine learning	Kumar P.; Ranjan R.		2024		
58	Proceedings of 12th international conference on computational fluid dynamics (ICCFD12)	Large-eddy simulations and reduced-order modeling for NACA4412 flow near the stall angle	Bajpai Y.; Ranjan R.		2024		

59	8th national symposium on shock waves (NSSW 2024)	Effect of curvature on thermal and pressure loads in hypersonic flow over double wedge	Aggarwal A.; Kushari A.; Ranjan, R.		2024		
60	8th national symposium on shock waves (NSSW 2024)	Effect of mach number on the stability of backward facing step flows	Nidharia M.; Ranjan, R.		2024		
61	8th national symposium on shock waves (NSSW 2024)	Accelerating supersonic flow simulations: Cuda optimization of the 'PRAVAH' LES solver	Patel V.; Jain A.; Ranjan R.		2024		
62	8th national symposium on shock waves (NSSW 2024)	Cavity-based passive control approaches for SWBLI in scramjets	Vanipenta S.; Chauhan J.; Ranjan, R.		2024		
63	International conference on sustainable aerospace technologies and innovations (ICSATI-2025)	Wake-blade interaction on a high-speed transonic LPT cascade	Menon T.; Ranjan R.		2025		
64	Annual Meeting of EMS activity group on Scientific Machine Learning	Prediction of shocks using a consistent PINN-based approach	Kumar P.; Ranjan R.		2025		
65	AIAA SCITECH 2025 Forum	Autonomous Precision Landing of Unmanned Aerial Vehicle using Visual Tracking by Ground based Camera	Prachand, C.; Rakshit, M. R.; Venkatesh, K. S.; Abhishek		2025		
66	AIAA SCITECH 2025 Forum	Vision-Based Autonomous Landing of an Unmanned Aerial Vehicle using Fractal ArUco Markers	Prachand, C.; Rustagi R.; Ritwik, S.; Singh, J.; Abhishek; Venkatesh, K. S.		2025		
67	AIAA SCITECH 2025 Forum	Model Based Transition Control for Biplane Tailsitter	Gupta, S.; Doranala, S.; Kothari, M.; Abhishek		2025		

68	AIAA/CEAS Aeroacoustics Conference (2024)	Effect of Fluidic Injection on the Radiated Sound in a Mach 0.5 Jet	Singh A.;Perumal A.K.;Samanta A.		2024		
Department of Biological Sciences and Bioengineering							
69	69th Annual Biophysical Society Meeting	BPS2025 - Mechanism of water and glycerol conduction in an aquaporin homolog of Trypanosoma brucei	Parsa, P. M.; Sankararamakrishnan, R.	124	2025	610a	Los angeles, USA
70	69th Annual Biophysical Society Meeting	BPS2025 - Intra-residue hydrogen bonds in cysteine, serine, and threonine residues in proteins: Structural bioinformatics and quantum chemical calculations	Singh, P.; Ramanathan, V.; Sankararamakrishnan, R.	124	2025	214A	Los angeles, USA
71	69th Annual Biophysical Society Meeting	BPS2025 - Mechanism of ion conduction in trimeric intracellular cation (TRIC) channels across prokaryotes and eukaryotes: Bioinformatics and molecular dynamics studies	Upadhyay, P.; Sankararamakrishnan, R.	124	2025	611A	Los angeles, USA
Department of Chemical Engineering							
72	2024 AIChE Annual Meeting	Extraction of Aggregation Kernel from DEM Simulations Using Sustained Contact: A New Kernel Extraction Methodology for Drum Granulators	A Karar, J Chakraborty, J Kumar, A Tripathi		2024		

73	2024 AIChE Annual Meeting	Decoupling Calibration and Coarse-Graining for DEM Simulation of Fine Particles	L Mahto, J Chakraborty, J Kumar, A Tripathi, M Sen, W Ketterhagen		2024		
74	2024 AIChE Annual Meeting	An Adaptive Acceleration Routine for Efficient MEP Discovery	SL Simon, N Kaistha, V Agarwal		2024		
75	Electrochemical Society Meeting Abstracts	Doping Induced Enhancement of Activity and Stability for Oxygen Evolution Reaction with Isomaterially Heterostructured MnO ₂	MM Sadiq, A Jha, R Pala	44	2024	2442	
76	Electrochemical Society Meeting Abstracts	Partial Applicability of Mixed Potential Theory in Unsteady Regime for Cu Electroless Deposition on Pt	M Gyanprakash, RG Pala	25	2024	1443-1443	
77	Electrochemical Society Meeting Abstracts	Activation/ Deactivation of Surface States of Heterostructure (Anatase-TiO ₂ /Au) Via Addition of Materials with High Band Gap, Rutile TiO ₂ (R-TiO ₂) or Low Band	M Gyanprakash, G Sharma, DK Behra, A Upadhyay, RG Pala	13	2024	1071	
78	Electrochemical Society Meeting Abstracts	Efficient Taste Analysis via Single-Channel Hybrid Electronic Tongue	S Yadav, RG Pala	49	2024	2669	

79	Electrochemical Society Meeting Abstracts	Convolution of Analyte-Electrode Interactions over Distinct Time-Scales Leading to Taste Discrimination in Single Response Electroplated Metal Microwires-Based Microfluidic	S Yadav, RK Sahu, RG Pala	49	2024	2664	
80	Electrochemical Society Meeting Abstracts	Estimation of Onset Potential for Oxygen Evolution Reaction at Platinum Surface Via Discharge of the Adsorption Capacitance of Intermediate Species	M Gyanprakash, R Srinivasan, RG Pala	34	2024	1675	
81	Electrochemical Society Meeting Abstracts	Energy Efficiency of Steady DC and Half Sine Pulsed DC in the High Voltage Pre-Plasma and Plasma Alkaline Water Electrolysis	RS Nehra, A Kumar, SS Lakesar, KP Rajeev, RG Pala	24	2024	1414	
82	Electrochemical Society Meeting Abstracts	Phase-Field Modeling of Electrolyte Transport Properties and Elasticity Modulus in Suppression of Dendrite Growth in Solid-State-Lithium-Ion-Batteries	RG Pala, K Kankani, P Chakraborty	245	2024	206	
83	Electrochemical Society Meeting Abstracts	Boosting Oxygen Electrocatalysis via Pre-Magnetized Multi Metallic Electrocatalyst	B Ghorui, H Vaidyanathan, IS Singh, M Chatterjee, RG Pala	245	2024	1427	

84	The 5th International Conference on Materials: Advances in Material Innovation	Additive engineering for the suppression of intermediate-phase formation in wide-bandgap perovskite solar cells	S Srivastava, S Ranjan, S Misra, A Singh, R Gupta, A Garg,		2024		
85	2024 AIChE Annual Meeting	Similarity-Based Machine Learning for Small Datasets; Application in Predicting Bio-Lubricant Properties	JY Kim, SA Khan, D Vlachos		2024		
86	2024 AIChE Annual Meeting	Distribution, Dynamics, and Reactivity, of Supported Sub-Nanometer Clusters	SA Khan, D Vlachos		2024		
87	2024 AIChE Annual Meeting	Inverse Effects in Catalysis: Impact of Metals on Supports	G Yan, SA Khan, D Vlachos		2024		
88	IEEE Journal on Flexible Electronics	Guest Editorial: Special Issue of Selected Extended Papers From the International Flexible Electronics Technology Conference (IFETC) 2023	S Saha, TN Ng, N El-Atab, S Panda, JS Chang, S Sambandan	3	2024	224-227	
89	The 3rd International Electronic Conference on Processes	Amplification of One- and Two-Photon Excited Emission of a Stilbazolium Dye–Laponite Hybrid	S GUPTA, GS He, A Pitter, M Trebbin, M Swihart, Y Joshi, R Vaia		2024		
Department of Civil Engineering							
90	E3S Web of Conferences	Soft-rigid granular mixtures: role of particle shape and rolling resistance in response under compressive loads	Alam M.;Das A.;Disfani M.M.	544	2024		

91	AIP Conference Proceedings	Fuzzy reliability of a multi-state system using Fuzzy Universal Generating Function	Yadav H.;Vandana ;Mishra V.N.;Sharma M.K.;Dhiman N.	3005	2024		
92	International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives	Unsupervised Clustering-based 3D Static Scene Construction Using LiDAR Channel and Azimuth Angle	Rajput R.;Goel S.;Medury A.	48	2024	381-387	
93	International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives	Modified ICP based Framework for 3D Localization and Mapping in GNSS-denied Environments using LiDAR	Koshti M.;Barnwal S.;Goel S.	48	2024	275-282	
94	ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences	Automated Pipeline for Multi-LiDAR Extrinsic Calibration: Experimental Evaluation and Performance Analysis	Barnwal S.;Koshti M.;Goel S.	10	2024	37-44	
95	Lecture Notes in Electrical Engineering	Development of Enhance-Net Deep Learning Approach for Performance Boosting on Medical Images	Manoharan G.;Solanke D.R.;Acharjee P.B.;Nayak C.K.;Sharma M.k.;Sahu D.N.	1273 LNEE	2025	420-428	
96	Lecture Notes in Civil Engineering	Performance Assessment of Existing Railway Track Subjected to Varying Train Speed	Soundararajan S.;Raychowdhury P.;Nimbalkar S.	407 LNCE	2025	129-136	
97	Lecture Notes in Civil Engineering	Regression-Based Analysis of Strain Softening in Triaxial Response of Indian Coal Ashes Using Hyperbolic Model	Malviya S.;Raychowdhury P.	538 LNCE	2025	323-337	

98	Lecture Notes in Civil Engineering	Application of Tuned Inerter Dampers for Improved Vibration Control of the Bridge Structure	De P.;Pandey D.K.;Mishra S.K.	550 LNCE	2025	205-214	
99	Lecture Notes in Civil Engineering	Development of Local Meteoric Water Line for Kanpur, Uttar Pradesh	Singh P.;Balan D.;Ojha R.;Srivastava R.;Tripathi S.;Guha S.;Krishan G.;Rao M.S.;Thakur P.	397 LNCE	2025	39-49	
100	Lecture Notes in Civil Engineering	Performance Evaluation of Green and Ampt Time of Ponding Models	Songa U.M.R.;Ojha R.	410 LNCE	2025	111-120	
101	Lecture Notes in Civil Engineering	A Statistical Inverse Methodology for Identifying Bucket Contributions During Recession Flows	Rashid O.;Apuv T.	410 LNCE	2025	25-33	
102	Lecture Notes in Civil Engineering	Coupled Computational Model for Channel-Floodplain Interaction	Shukla R.;Pahar G.	560 LNCE	2025	129-141	
103	Lecture Notes in Civil Engineering	Dynamic Characterization of Indian Pond Ash Through Cyclic Simple Shear Tests	Sireesha G.N.;Raychowdhury P.	237	2025	511-523	
104	Lecture Notes in Civil Engineering	Seismic Collapse Risk of Stone Masonry Buildings in the Indian Himalayas	Shastri R.;Ray-Chaudhuri S.;Singh Y.	237	2025	1395-1407	

105	Lecture Notes in Civil Engineering	Sustainable Preservation and Evaluation of Burnt Brick Masonry Structures Through Condition Assessment and Retrofitting Techniques	Latha L.;Ray-Chaudhuri S.	237	2025	1289-1299	
106	Lecture Notes in Civil Engineering	Prediction of Aggregate Gradation from Two-Dimensional (2-D) Image of Aggregates—A Simple Approach	Mandal S.;Bandyopadhyaya R.;Das A.	417 LNCE	2025	287-304	
107	Lecture Notes in Civil Engineering	Understanding the Role of Land-Atmosphere Interaction on Soil Moisture Persistence	Ul Haq M.F.;Apurv T.	561 LNCE	2025	35-40	
108	Geotechnical Special Publication	Effect of OCR on Torsional Capacity of Single Pile and Pile Groups	Kumar J.;Patra N.R.	2025-March	2025	146-153	
109	Geotechnical Special Publication	Static and Cyclic Behaviour of Phosphogypsum-Stabilized Expansive Soil	Singh S.;Patra N.R.	2025-March	2025	365-376	
110	Geotechnical Special Publication	Numerical Analysis of a Group of Batter Piles Subjected to Lateral Loading for Different Batter Angles	Verma D.K.;Patra N.R.	2025-March	2025	242-251	
111	Geotechnical Special Publication	Effect of Piles Position on the Behavior of Model Rafts with Disconnected Settlement Reducing Piles in Sand	Sagi R.;Patra N.R.	2025-March	2025	124-133	

112	Geotechnical Special Publication	Investigation of Interference Effect of Adjacent Strip Footings on c- ϕ Soil Using the CEL Technique	Choudhury A.;Ghosh P.;Mishra S.K.	2025-March	2025	549-558	
113	Geotechnical Special Publication	Hydration Characteristics of Bentonite Core of Geosynthetic Clay Liner: Key Role of Wet-Dry Cycles and Hydrating Fluids	Khan V.;Sathiyamoorthy R.	2025-March	2025	406-417	
114	1st International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies, CE2CT 2025	Conventional and Intelligent Control Schemes for Handling A Helicopter's Pitch Axis	Chaudhary A.		2025	05-Jan	
115	18th World Conference on Earthquake Engineering	Development of an Unconditionally Stable Substructure Shake Table Testing Method	Kakoty, H, and C Kolay		2024		
116	18th World Conference on Earthquake Engineering	Seismic Performance of Viscous-Damped Buildings Using Large- Scale Real-Time Hybrid Simulations	Ricles, J, R Sause, B Dong, C Kolay, and T Marullo		2024		
117	18th World Conference on Earthquake Engineering	Real Time Hybrid Simulation (RTHS) of a 2-Story Building Equipped with Novel Base Isolation Systems.	Cao, Liang, Faisal Nissar Malik, Safwan Al-Subaihawi, Wendy Miao, James Ricles, Thomas M Marullo, Chinmoy Kolay, Austin Downey, and Simon Laflamme		2024		

118	7th International Conference on Geotechnical and Geophysical Site Characterization	Particle Crushing and Liquefaction Resistance of Crushable Aragonite Sands	M Alam, A Das, MM Disfani		2024		
119	Goldschmidt 2024	Role of Carbonate Minerals in Mobilization of Geogenic Contaminants in Indo-Gangetic Plain Groundwater	A Singh, SK Sharma, AK Mohapatra, S Sujathan...		2024		
120	2024 IEEE India Geoscience and Remote Sensing Symposium (InGARSS)	Terrestrial and Aerial LiDAR Dataset of Individual Trees in the Shivalik Range, India	Moonis Ali, Apratim Biswas, Anna Iglseder, Vinod Kumar, Shant Kumar, Bharat Lohani, Sandeep Gupta, Markus Hollaus, Norbert Pfeifer		2024		
121	14th International Conference on Simulation and Modeling Methodologies, Technologies and Applications	Toward Physics-Aware Deep Learning Architectures for LiDAR Intensity Simulation	V Anand, B Lohani, G Pandey, R Mishra		2024		
122	AGU Annual Meeting 2024	Strategies for NOx Control from Coal Power Plants in India: Cost Analysis	Sahu, R., Sharma, M., Nagar, P.K. and Saini, P.	NA	2024	NA	
123	AGU Annual Meeting 2024	Temporal Assessment of Air Pollutants and their Sources in Delhi, India	Saini, P., Nagar, P.K., Sharma, M., Sahu, R. and Kota, S.H.	NA	2024	NA	
124	In 8th International Conference on Data Science and Management of Data (12th ACM IKDD CODS and 30th COMAD) (CODS-COMAD Dec '24), December 18–21, 2024, Jodhpur, India.ACM, New York, NY, USA, 9 pages.	Spatio-Temporal Forecasting of PM2.5 via Spatial-Diffusion guided Encoder-Decoder Architecture	Malay Pandey , Vaishali Jain , Nimit Godhani , Sachchida Nand Tripathi and Piyush Rai		2024		

125	CONSEC24 (10th International Conference on CONcrete under SEvere Conditions – Environment and Loading)	Prediction of the Properties of Self-Consolidating Concrete Using Machine Learning Models	Sunil Kumar Vishwakarma, Manoj Kumar, K.V.Harish	10th	2024	4	
126	43rd Annual Cement & Concrete Science Conference	Machine Learning Models for Predicting the Heat of Hydration of Cement Blended with Supplementary Cementitious Materials	Sunil Kumar Vishwakarma, Manoj Kumar, K.V.Harish	43	2024	3	
127	CONSEC24 (10th International Conference on CONcrete under SEvere Conditions – Environment and Loading)	Effect of Pre-shear on Yield Stress and Viscosity of Cement Paste	Shubham Raj and K.V.Harish	10th	2024	6	
128	43rd Annual Cement & Concrete Science Conference, 9-10 September 2024, Queen's University Belfast UK	Combined and Individual Effect of Particle Size and Dosages of Fly Ash on the Rheological Properties of Cementitious Pastes	Shubham Raj and K.V.Harish	43	2024	3	
129	CONSEC24 (10th International Conference on CONcrete under SEvere Conditions – Environment and Loading)	Effect of silica fume and slag on compressive strength and pore structure of foam concrete for non-structural and structural applications	Arvind Vishavkarma and K.V.Harish	-	2024	1190-1195	
130	18th NCB International conference & Exhibition on Cement, Concrete and Building materials	Effect of silica fume on foam concrete for non-structural applications	Arvind Vishavkarma and K.V.Harish		2024	-	

131	Inter IIT tech meet	Influence of combined substitution of slag and fly ash in improving the pore structure and corrosion resistance of foam concrete mixtures used for reinforced concrete applications	Arvind Vishavkarma and K.V.Harish	-	2024	-	
132	Conference on Durability of Building Materials and Systems in the Transportation Infrastructure	Corrosion assessment of sustainable foam concretes incorporating binder and filler modification with slag and fly ash	Arvind Vishavkarma and K.V.Harish	-	2025	-	
133	Society of Civil Engineers and Department of Civil Engineering	Corrosion assessment of sustainable foam concretes for structural applications	Arvind Vishavkarma and K.V.Harish	-	2025	-	
134	CONSEC24 (10th International Conference on CONcrete under SEvere Conditions – Environment and Loading)	The Effect of grinding on the properties of pelletized aggregates made of AOD slag	Manoj Kumar and K.V.Harish	10th	2024	186-191	
135	43rd Annual Cement & Concrete Science Conference	Self-consolidating characteristics of concrete composites incorporating rounded AOD slag-based pelletized coarse aggregates	Manoj Kumar and K.V.Harish	43	2024	3	
136	CONSEC24 (10th International Conference on CONcrete under SEvere Conditions – Environment and Loading)	Behavior of Reinforced Concrete Deep Beams under Simultaneous Corrosion and Fatigue Loading	Aamna Sarfaraz and K.V.Harish	10th	2024	857	

137	CONSEC24 (10th International Conference on CONcrete under SEvere Conditions – Environment and Loading)	Towards carbon neutrality: A progressive path for sustainable development in the construction industry of a developing nation	Abhiram Shukla and K.V.Harish	10th	2024	971	
138	International Conference on Renewable Energy and Sustainable Technologies, New Delhi, India	From standards to sustainability: A framework for evaluating green buildings	Abhiram Shukla and K.V.Harish		2024		
139	CONSEC24 (10th International Conference on CONcrete under SEvere Conditions – Environment and Loading)	Application of Electrical Impedance Spectroscopy to Assess the Condition of the Blended System Exposed to Different Curing Conditions	Mahima Shrivastava and K.V.Harish	10th	2024	520	
140	8 th International Conference on Bituminous Mixtures and Pavements, June 12-14, 2024, .	Observations on bitumen globules during breaking of emulsion on aggregate surface	Mandal, S., Das, A.		2024	167-174	
141	14 th ISAP International Conference on Asphalt Pavement (ISAP 2024), June 2-7, 2024	Incorporation of loading sequence in computation of non-linear cumulative damage for asphalt pavement design	Pandey, A. D., and Das, A		2024	485-489	
142	Proceedings of the 37th International Technical Meeting of the Satellite Division of The Institute of Navigation (ION GNSS+ 2024)	Zero Velocity Detection Using Foot Mounted Ultra Wide Band for Pedestrian Positioning	Ashwani Kumar,Kourosh Khoshelham,Salil Goel				
143	XII International Conference on Structural	Bayesian updating of the displacement-strain transformation matrix	S Adarsh, J Panda, S Ray-Chaudhuri		2024		

144	IMPLAST 2022Springer Proceedings in Materials	A Visco-Damage- Plastic Model to Analyze the Impact Loading Response in Synthetic Rock. In: Dynamic Behavior of Soft and Hard Materials Volume 1	Kumar, S., Das, A., Tiwari, G.	34	2024		
145	Earth and Environmental Science	Numerical Simulation of Flexible-Bonded Granular Assembly Using DEM. In IOP Conference Series	Alam, M., Das, A., & Disfani, M. M.	1480	2025		
146	7th International Conference on Geotechnical and Geophysical Site Characterization (ISC 24)	Particle Crushing and Liquefaction Resistance of Crushable Aragonite Sands	M. Saqib*, A. Das, N. Ranjan, P. Patra				
147	In IOP Conference Series: Earth and Environmental Science	Numerical Investigation of Particle Crushing Effect on Pore Structure Evolution and Unsaturated Soil Characteristics.	Alam, M. S., Mufti, S., & Das, A.	1480	2025		

Department of Cognitive Science

148	Cognitive Science Society.	A high-dimensional semantic space of emotion representations support circumplex structure	Mishra, S., Srinivasan, N., & Tiwary, U.S		2024	4575-4581	
149	Cognitive Science Society.	Your intentions matter! The selection of an orthogonal feature of an intended object influences attentional control	Sharma, N.D., Kumar, D., & Srinivasan, N		2024	5580-5586	

150	Proceedings of the 32nd International Conference on Computers in Education	Who is a good computational thinker? Mapping Behavioral Dispositions of Middle-School Children Based on Real-Life, Algorithmic Tasks	Pinnamaraju, S., Tony, L., & Srivastava, A.		2024		Manila (Philippines)
151	Proceedings of the 32nd International Conference on Computers in Education.	Constructing desirable learning habits: Evidence from an Instructional System Design course based on the IDC theory	Srivastava, A., Yadav, S., Murthy, S., & Iyer, S.		2024		Manila (Philippines)
152	In 2024 IEEE 24th International Conference on Advanced Learning Technologies	Assessing the impact of an AR tool on middle graders' spatial problem-solving process	Srivastava, A., Murthy, S., & Dasgupta, C.		2024	124-125	
153	32nd ICCE Conference	Advanced Learning Technologies	Anveshna Srivastava		2024		Philippines (Manila)
154	International Conference on Cognitive Modeling	Do working memory constraints influence prediction in verb-final languages?	Himanshu Yadav, Apurva, Ishita Arun, and Samar Husain.		2024	245-251	Tilburg, the Netherlands
155	The Annual Meeting of the Cognitive Science Society	Naturalistic reading time data support information locality	Hailin Hao, Himanshu Yadav, and Elsi Kaiser	46	2024	1379-1386	Rotterdam, The Netherlands

156	International Conference on Brain Computer Interface & Healthcare Technologies	Towards Building Cognitive Brain Computer Interfaces for Controlling Neural Variability During Repetitive Transcranial Magnetic Stimulation Treatment in Depression	Pranjul Verma, Sanket Shiddaram Houde, Hari Prakash Tiwari, Jyoti Mishra, Dhakshin Ramanathan, Alok Bajpai, Sanjay Mahendru, Pragathi Priyadharsini Balasubramani		2024	201-206	
157	International Conference on Brain Computer Interface & Healthcare Technologies	Tapping the Differences Between Reward Processes and Executive Control for Efficient Brain-Machine Interfacing (BMI) Recovery in Post-Stroke Patients with Upper Limb Impairments	Gokul Krishna Raja Padmaja, Nikunj Arunkumar Bhagat, Pragathi Priyadharsini Balasubramani		2024	162-168	
Department of Computer Science and Engineering							
158	ACM Symposium on Theory of Computing, STOC 2024	Learning the Coefficients: A Presentable Version of Border Complexity and Applications to Circuit Factoring	Bhargav C.S.;Dwivedi P.;Saxena N.		2024	130-140	
159	International Colloquium on Automata, Languages, and Programming, ICALP 2024	Vital Edges for (s,t)-Mincut: Efficient Algorithms, Compact Structures, & Optimal Sensitivity Oracles	Baswana S.;Bhanja K.	297	2024		Tallin, Estonia
160	Proceedings - 2024 39th ACM/IEEE International Conference on Automated Software Engineering, ASE 2024	Program Synthesis Meets Visual What-Comes-Next Puzzles	Lahiri S.;Kalita P.K.;Chittora A.K.;Vankudre V.;Roy S.		2024	418-429	

161	SoCC 2024 - Proceedings of the 2024 ACM Symposium on Cloud Computing	PCLive: Pipelined Restoration of Application Containers for Reduced Service Downtime	Tripathi S.B.;Mishra D.		2024	284-301	
162	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	Maximizing Weighted Dominance in the Plane	Akram W.;Saxena S.	1537 3 LNCS	2025	153-163	
163	SIAM Symposium on Simplicity of Algorithms, SOSA 2025	The connectivity carcass of a vertex subset in a graph: both odd and even case	Baswana S.;Pandey A.		2025	385-422	New Orleans, USA
164	Proceedings - International Conference on Computational Linguistics, COLING	NYAYAANUMANA and INLEGALLLAMA: The Largest Indian Legal Judgment Prediction Dataset and Specialized Language Model for Enhanced Decision Analysis	Nigam S.K.;Patnaik B.D.;Mishra S.;Shallum N.;Ghosh K.;Bhattacharya A.	Part F206 484-1	2025	11135-11160	
165	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	Synthesizing Abstract Transformers for Reduced-Product Domains	Kalita P.K.;Reps T.;Roy S.	1499 5 LNCS	2025	147-172	
166	SIGCSE TS 2025 - Proceedings of the 56th ACM Technical Symposium on Computer Science Education	Feasibility Study of Augmenting Teaching Assistants with AI for CS1 Programming Feedback	Ahmed U.Z.;Sahai S.;Leong B.;Karkare A.	1	2025	17-Nov	
167	Lecture Notes in Computer Science	Relations Between Monotone Complexity Measures Based on Decision Tree Complexity	Byramji F.;Jha V.;Kayal C.;Mittal R.	1516 1 LNCS	2025	128-139	

168	Proceedings - International Conference on Computational Linguistics, COLING	Studying the capabilities of Large Language Models in solving Combinatorics Problems posed in Hindi	Kumar Y.;Roy S.		2025	90-99	
169	International Conference on Information Systems Security and Privacy	Attackers' Profiling Based on Multi-Attack Patterns in SSH Service	Majumdar K.;Kumar N.;Handa A.;Shukla S.K.	2	2025	150-159	
170	Lecture Notes in Computer Science	Masking Gaussian Elimination at Arbitrary Order with Application to Multivariate- and Code-Based PQC	Norga Q.;Kundu S.;Ojha U.K.;Ganguly A.;Karmakar A.;Verbauwhede I.	1559 8 LNCS	2025	249-272	
171	17th RECOMB-CCB Computational Cancer Biology	Intratumor Heterogeneity Through the Lens of Gene Regulatory Networks	Narein Rao, Nicolae Sapoval, Hamim Zafar, Luay Nakhleh		2025		
172	Proceedings of the JuliaCon Conferences	Julia for HPC: In Situ Data Analysis with Julia for Climate Simulations at Large Scale	Tang Li; Dutta Soumya; Klein Natalie; Wang Wayne Yu; Wolfe Jonathan David; Roekel Luke Van; Urban Nathan; Biswas Ayan; and Lawrence Earl	6	2024		
173	IEEE Workshop on Uncertainty Visualization: Applications, Techniques, Software, and Decision Frameworks	Uncertainty-Informed Volume Visualization using Implicit Neural Representation	Saklani Shanu; Goel Chitwan; Bansal Shrey; Wang Zhe; Dutta Soumya; Athawale Tushar M.; Pugmire David; Johnson Christopher R.		2024	62-72	
174	27th Euromicro Conference on Digital System Design (DSD)	Automatic Generation of Modular Multipliers Upon Pseudo-Mersenne Primes Using DSP Blocks on FPGAs	Shree Harish S; Debapriya Basu Roy		2024	145-152	

175	Proceedings of the Great Lakes Symposium on VLSI	Design of a Lightweight Fast Fourier Transformation for FALCON using Hardware-Software Co-Design	Suraj Mandal; Debapriya Basu Roy		2024	228-232	
176	Design, Automation and Test in Europe Conference	Three Eyed Raven: An On-Chip Side Channel Analysis Framework for Run-Time Evaluation	M Dhilipkumar, Priyanka Bagade and Debapriya Basu Roy		2025		
177	2025 Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics (NAACL)	Towards Quantifying Commonsense Reasoning with Mechanistic Insights	Abhinav Joshi, Areeb Ahmad, Divyaksh Shukla, Ashutosh Modi	-	2025	9633–9660	Albuquerque, New Mexico, U.S.A.
178	Advances in Neural Information Processing Systems (NeurIPS)	COLD: Causal reasOning in cLosed Daily activities	Abhinav Joshi, Areeb Ahmad, Ashutosh Modi	37	2024	5145-5187	Vancouver, Canada
179	Empirical Methods in Natural Language Processing (EMNLP)	Towards Measuring and Modeling "Culture" in LLMs: A Survey	Muhammad Farid Adilazuarda, Sagnik Mukherjee, Pradhyumna Lavania, Siddhant Shivdutt Singh, Fikri Alham Aji, Jacki O'Neill, Ashutosh Modi, Monojit Choudhury,	-	2024	15763–15784	Miami, U.S.A.
180	Empirical Methods in Natural Language Processing (EMNLP)	Towards Robust Evaluation of Unlearning in LLMs via Data Transformations	Abhinav Joshi, Shaswati Saha, Divyaksh Shukla, Sriram Vema, Harsh Jhamtani, Manas Gaur, Ashutosh Modi	-	2024	12100–12119	Miami, U.S.A.

181	62nd Annual Meeting of the Association for Computational Linguistics (ACL)	IL-TUR: Benchmark for Indian Legal Text Understanding and Reasoning	Abhinav Joshi, Shounak Paul, Akshat Sharma, Saptarshi Ghosh, Pawan Goyal, and Ashutosh Modi	-	2024	11460–11499	Bangkok, Thailand
182	62nd Annual Meeting of the Association for Computational Linguistics (ACL)	iSign: A Benchmark for Indian Sign Language Processing	Abhinav Joshi, Romit Mohanty, Mounika Kanakanti, Andesha Mangla, Sudeep Choudhary, Monali Barbate, Ashutosh Modi	-	2024	10827–10844	Bangkok, Thailand
183	2024 Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics (NAACL)	BookSQL: A Large Scale Text-to-SQL Dataset for Accounting Domain	Rahul Kumar, Amar Raja Dibbu, Shrutendra Harsola, Vignesh Subrahmaniam, Ashutosh Modi	-	2024	497–516	Mexico City, Mexico
184	IEEE/ACM International Symposium on Microarchitecture	Leveraging Cache Coherence to Detect and Repair False Sharing On-the-fly	Vipin Patel, Swarnendu Biswas, Mainak Chaudhuri		2024	823-839	Austin, USA
185	2024 Asian Hardware Oriented Security and Trust Symposium	Sorting Attacks Resilient Authentication Protocol for CMOS Image Sensor Based PUF	A. Kamal, V. Mishra, S. Mittal, M. Rathor, C. Kumar and U. Chatterjee		2024	1-6	Kobe, Japan
186	26th International Symposium on Quality Electronic Design	i-Know What You Do: Privacy Evaluation of Apple Smartphones with Remote Acoustic Side-Channels	Oswa Amro, Sanapala Jaswanth, Sai Dishanth Banoth, Urbi Chatterjee	-	2025	-	San Francisco, USA
187	2024 IEEE 20th International Conference on e-Science (e-Science)	Evaluating Active-learning Based Performance Prediction of Parallel Applications	Shivam Aggarwal, Preeti Malakar		2024	1-10	Osaka, Japan

188	Springer 14th International Conference on Security, Privacy and Applied Cryptographic Engineering (SPACE) conference, India, 2024	NID-TGN: Spatiotemporal Intrusion Detection System for IoT Networks	Jonna Likith Sai, Souptik Majumder, Rohit Verma, and Priyanka Bagade		2024		Kochi, India
189	19th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISAPP)	Attentive-YOLO: On-site Water Pipeline Inspection using Efficient Channel Attention and Reduced ELAN-based YOLOv7	Atanu Shuvam Roy and Priyanka Bagade				Rome, Italy

Department of Earth Sciences

190	Scientific Drilling	CALDERA: a scientific drilling concept to unravel Connections Among Life, geo-Dynamics and Eruptions in a Rifting Arc caldera, Okataina Volcanic Centre, Aotearoa New Zealand	Massiot C.;Adam L.;Boyd E.S.;Cary S.C.;Colman D.R.;Cox A.;Hughes E.;Kilgour G.;Lelli M.;Liotta D.;Lloyd K.G.;Marr T.;McNamara D.D.;Milicich S.D.;Miller C.A.;Misra S.;Nichols A.R.L.;Pierdominici S.;Rooyackers S.M.;Schmitt D.R.;Stefansson A.;Stix J.;Stott M.B.;Thomas C.;Villamor P.;Wang P.;Zarrouk S.J.	33	2024	67-88	
191	European Geosciences Union (EGU) conference	Insights into the Neoproterozoic Magmatic Evolution of the Western Nilgiri Block, Southern India.	VTM Shamil, C Ishwar-Kumar, M Satish-Kumar		2024		Vienna, Austria

192	Goldschmidt Conference	Extreme Post-Magmatic REE Enrichment Process in Kamthai Carbonatite Complex, India constrained by Combined Petrologic and Geochemical Studies	A Gupta, A Banerjee, D Paul, G Costin, T Sun, R Dasgupta		2024		
193	Goldschmidt Conference	Sr-Nd-Pb-Hf isotopic signatures in the rocks from the Rajmahal Traps Large Igneous Province, India	M Halder, D Paul, A Stracke		2024		
194	Rock Deformation and Structures 8	The probable direction of impact at Dhala impact structure, India deciphered from microfracture intensity and X-ray diffractometry: a new potential impact direction indicator	Behera S. S., Tiwari S., Pandey A. K., Agarwal A., Ojha A. K.	8	2024		IISER Bhopal
195	Europlanet Science Congress 2024	Efficacy of classical and spectroscopic techniques for strain quantification in weakly shocked rocks: results from experimentally impacted Taunus quartzite.	Das R., Agarwal A., Kenkmann T., Shitiri Y.S., Ojha A.K., Poelchau, M.H.		2024		Berlin, Germany.
196	Europlanet Science Congress 2024	Unraveling Double-Layered Ejecta: Lessons from Lonar Crater and Beyond.	Wilk J., Agarwal A., Dey G.		2024		Berlin, Germany.

197	Europlanet Science Congress 2025	Shaped by the Double: Investigating Double-Layered Ejecta at Ries and Lonar Craters (2025).	Wilk J., Agarwal A., Dey G.		2025		Helsinki, Finland
Department of Electrical Engineering							
198	IEEE International Symposium on Circuits and Systems	Flip-Around Level-Shifting for Switched-Capacitor Amplifiers to Improve the Closed-Loop Settling of Floating-Inverter Amplifiers	R. S. Ashwin Kumar		2024		
199	IEEE Asia Pacific Conference on Circuits and Systems	Low Noise Low Power Readout Circuit for Capacitance Based MEMS Accelerometers	Rakesh, R. S. Ashwin Kumar		2024		
200	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	swCNN: A Small World Convolutional Neural Network for Efficient Training	Dwivedi S.;Sandhan T.;Pandey O.J.;Hegde R.M.	1530 8 LNCS	2025	359-374	
201	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	Adaptive Refiner Based Few-Shot Font Generation	Ranjit P.;Gupta M.;von Gillern J.;Yetrintala V.;Arora V.	1530 6 LNCS	2025	206-221	
202	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	Severity of Flood Damage Estimation from Aerial Scenery	Landa T.R.;Sandhan T.	1531 8 LNCS	2025	46-61	

203	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	Bandwise Attention in CycleGAN for Fructose Estimation from Hyperspectral Images	Tyagi D.;Sandhan T.	1532 3 LNCS	2025	204-218	
204	Lecture Notes in Electrical Engineering	Maximizing Customer Satisfaction and Grid Resilience Through a Three-Tiered Energy Bidding Framework	Arora M.;Vishwanath G.M.;Sharma A.;Chilamkurthi N.	1294	2025	251-265	
205	AIAA Science and Technology Forum and Exposition, AIAA SciTech Forum 2025	Electromagnetic Refinement and Performance Characterization of a UAV BLDC Motor	Nayak S.M.;Kothari M.;Sahoo S.R.		2025		
206	AIAA Science and Technology Forum and Exposition, AIAA SciTech Forum 2025	Design of Radial Flux Outer-Runner BLDC Motor for Single-Rotor UAVs	Nayak S.M.;Jaiswal R.;Kothari M.;Sahoo S.R.		2025		
207	International Conference on Communication Systems and Networks, COMSNETS	ReputeStream: Mitigating Free-Riding through Reputation-Based Multi-Layer P2P Live Streaming	Kushwaha R.;Bhattacharyya R.;Singh Y.N.		2025	292-300	
208	Lecture Notes in Electrical Engineering	Multi-Objective Approach for Optimal Reactive Power Dispatch Employing Sine Cosine Optimization Algorithm	Kumar R.;Bohre A.K.;Kolhe M.L.;Singh S.N.	1296	2025	437-451	
209	IECON 2024- 50th Annual Conference of the IEEE Ind. Electron. Society	Precise Modeling Approach of Litz-Wire Based Planar Rectangular Spiral Coils with Lateral Misalignment for WPT Applications	A. Pandey, J. Kumar and S. Samanta		2024		Chicago, USA

210	IECON 2024- 50th Annual Conference of the IEEE Ind. Electron. Society	Analysis and Control of Three-Level Bidirectional DC-DC Converter for Battery Charging Application	S. Yamini, D. Kumar, A. Singh and S. Samanta		2024		Chicago, USA
211	IECON 2024- 50th Annual Conference of the IEEE Ind. Electron. Society	Modeling and Control of Three Level PFC Rectifier for lower THD	Y. Sharma, A. Singh and S. Samanta		2024		Chicago, USA
212	IEEE International Conf. on Power Electronics, Drives and Energy Systems (PEDES)	Control Strategies for 3L Inverter in Islanded and Grid-Tied Modes Using Controller-Hardware in the Loop	D. Kumar, Y. Sharma, A. Singh and S. Samanta		2024	1--6	Mangaluru
213	IEEE International Conf. on Power Electronics, Drives and Energy Systems (PEDES)	Accurate Modeling Approach of Litz-Wire based Planar DD Spiral Coils for WPT Applications	A. Pandey, S. Samanta and A. Edpuganti		2024	1--6	Mangaluru
214	IEEE International Conf. on Power Electronics, Drives and Energy Systems (PEDES)	Study and Performance Evaluation of Design and Control Methods for CC/CV based EV Charging in WPT Topologies	J. Kumar, R. Gupta, A. Pandey, S. Samanta and A. K. Rathore		2024	1--6	Mangaluru
215	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Polarization Insensitive Near Unity Absorption FSS for RF Energy Harvesting Application	Farheen Fatima, M. Jaleel Akhtar		2024	1--4	Hyderabad, India
216	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Circular SIW Microwave Sensor for Methanol Detection in Spurious Liquors	P. Azad, A. Kumari and M. J. Akhtar		2024	1--4	Hyderabad, India

217	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Design and Optimization of Featherweight, UltraThin, Flexible PET/CNF/PU Multilayered Sandwich Structure for Absorption-Dominant EMI Shielding	J. Tahalyani, M. J. Akhtar and K. K. Kar		2024	1--5	Hyderabad, India
218	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Silver Nanowire based Highly Flexible Lightweight Optically Transparent Thin Film for EMI Shielding Applications	A. Choudhary and M. J. Akhtar		2024	1--4	Hyderabad, India
219	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Improved RF Subsurface Imaging Under Complex Terrain by Synergistic Use of Radar and LiDAR	A. Swain, P. Gupta, A. Khanobish, C. Bhaumik, T. Chakravarty and M. J. Akhtar		2024	1--4	Hyderabad, India
220	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Metasurface Lens Antenna for Microwave Subsurface Anomaly Detection and Imaging	S. Chakravarty and M. J. Akhtar		2024	1--4	Hyderabad, India
221	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	AMC based Antenna Sensor for Wireless Testing and Monitoring of Dielectric Materials	A. Kumar, P. Azad and M. J. Akhtar		2024	1--4	Hyderabad, India
222	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Ultrawideband Metasurface Microwave Absorber based on Laser Induced Graphene	M. Shahnawaz, H. B. Baskey and M. J. Akhtar		2024	1--5	Hyderabad, India

223	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Automation of Conducted Susceptibility Testing According to IEC 61000-4-6	R. Roshan, S. Sharma, A. R. Harish and M. J. Akhtar		2024	1--4	Hyderabad, India
224	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Novel Probe-fed SIW to Dielectric Waveguide Transition for Ku-Band Applications	S. K. Sahoo, A. Biswas and M. J. Akhtar		2024	1--4	Hyderabad, India
225	2024 IEEE Asia-Pacific Microwave Conference (APMC)	Design of Wideband Class AB Power Amplifier Using Improved SRFT Matching for Low Power Applications	A. Ahsan, S. Sutradhar and M. J. Akhtar		2024	593-595	Bali, Indonesia
226	2024 IEEE Asia-Pacific Microwave Conference (APMC)	Integration of Triboelectric Nanogenerator Device with RF Rectifier for Hybrid Energy Harvesting	F. Fatima, B. Fatma and M. J. Akhtar		2024	1314-1316	Bali, Indonesia
227	2024 IEEE Asia-Pacific Microwave Conference (APMC)	Thermally Tunable Ultra-wideband Terahertz Absorber Using VO2 Based Novel Metasurface	M. Shahnawaz, H. B. Baskey and M. J. Akhtar		2024	154-156	Bali, Indonesia
228	2024 IEEE Asia-Pacific Microwave Conference (APMC)	ITO-PVB-Based Flexible Transparent Wideband Metamaterial Absorber for Radar Applications	A. Choudhary and M. J. Akhtar		2024	928-930	Bali, Indonesia
229	2024 IEEE Nanotechnology Materials and Devices Conference (NMDC)	Indium Tin Oxide Based Flexible Transparent Ultrawideband Metamaterial Absorber	A. Choudhary and M. J. Akhtar		2024	137-140	Salt Lake City, UT, USA
230	2024 IEEE INC-USNC-URSI Radio Science Meeting (Joint with AP-S Symposium)	Quad-Band RF Planar Sensor Using CSRR for Subsurface Imaging of Coated Composites	A. Kumari, G. Govind, S. P. Das and M. J. Akhtar		2024	312-313	Florence, Italy

231	2024 IEEE INC-USNC-URSI Radio Science Meeting (Joint with AP-S Symposium)	Glycemic Profile Monitoring Using CPW Line Excited Electric LC Resonator Based RF Biosensor	P. Azad, A. Kumari and M. J. Akhtar		2024	24--25	Florence, Italy
232	2024 IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Highly Selective Polarization Insensitive Wideband A-T-A Frequency Selective Resorber	A. K. Shahi, B. Bandyopadhyay, Aakash, R. K. Dutta, A. Biswas, and K. V. Srivastava		2024		Florence, Italy
233	2024 IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Single Layer Polarization Insensitive Wideband Time Modulated Frequency Selective Surface for Radar Countermeasure	B. Bandyopadhyay and K. V. Srivastava		2024		Florence, Italy
234	2024 IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Measurement Considerations of FSS Absorber in Free Space	S. Bhattacharya, K. Chaudhary, Aakash, and K. V. Srivastava		2024		Florence, Italy
235	2024 IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Transparent ITO-Coated PET based Wideband and Wideangle Microwave Absorber	J. Yadav, J. Ramkumar, and K. V. Srivastava		2024		Florence, Italy
236	2024 IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	77 GHz SISL based Dual-circularly Polarized Filtenna for Automotive Radar Applications	Aakash, A. K. Rai, and K. V. Srivastava		2024		Florence, Italy
237	2024 IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Wideband Dual-Polarized Antenna Array for Base Station Applications	R. K. Dutta, S. Singh, Aakash, R. K. Jaiswal, and K. V. Srivastava		2024		Florence, Italy

238	2024 IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	mm-wave Mobile Handset Antenna with Beam Steering Capability for 5G Application	A. K. Rai, R. K. Dutta, Aakash, and K. V. Srivastava		2024		Florence, Italy
239	2024 IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Design of Switchable AT/AR Frequency Selective Resorber with Transmission/Reflection in X Band	A. Gera, R. Vishwakarma, A. Dileep, and K. V. Srivastava		2024		Florence, Italy
240	2024 IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Design of Vertical SRR based Absorber for RCS Reduction of Aircraft Equipped with Lightning Strike Protection	R. Vishwakarma, A. Rana, M. Saikia, Aakash, and K. V. Srivastava		2024		Florence, Italy
241	2024 IEEE Space, Aerospace and Defence Conference (SPACE)	Design of AMC Backed Printed Monopole Antenna for GPS and Satellite Applications	B. Bandyopadhyay, R. K. Dutta and K. Vaibhav Srivastava		2024		Bangalore, India
242	2024 IEEE Space, Aerospace and Defence Conference (SPACE)	High Gain Fabry-Perot Cavity Antenna Using Single Layered Partially Reflective Surface	R. K. Dutta, B. Bandyopadhyay and K. V. Srivastava		2024		Bangalore, India
243	2024 URSI Regional Conference on Radio Science (URSI-RCRS)	A Double Slotted Antipodal Vivaldi Antenna for 5G mmWave MIMO Applications	S. Paul, R. K. Chaudhary, and K. V. Srivastava		2024		Nainital, India
244	2024 Asia-Pacific Microwave Conference (APMC-2024)	Design of a Polarization Insensitive Compact Absorptive Frequency Selective Reflector with Narrow Transition Band	A. Dileep, S. Paul, R. K. Chaudhary, and K. V. Srivastava		2024		Bali, Indonesia

245	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Broadband Time-Modulated FSS for C, X, and Ku Band Radar Countermeasures	B. Bandyopadhyay and K. V. Srivastava		2024		Hyderabad, India
246	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Design of a Multilayer Transmissive-Reflective Frequency Selective Surface with Wide Stop-Band for mmWave Applications	A. Dileep, S. Paul, R. K. Chaudhary, and K. V. Srivastava		2024		Hyderabad, India
247	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	A Double Slotted Antipodal Vivaldi Yagi-Uda Antenna for 5G mmWave MIMO Applications	S. Paul, R. K. Chaudhary, and K. V. Srivastava		2024		Hyderabad, India
248	IEEE International Conf. on Power Electronics, Drives and Energy Systems (PEDES)	Design of High-Frequency Current Transformer for Capacitive Wireless Power Transfer Systems	S. Basak, U. Kundu and L.Umanand		2024		Surathkal, India
249	IEEE International Conf. on Power Electronics, Drives and Energy Systems (PEDES)	Planar Litz Inductor Design for High-Frequency Soft-switched PWM Converter	Nithyadas P. V., U. Kundu, V. John and V. M. Iyer		2024		Surathkal, India
250	IEEE International Conf. on Power Electronics, Drives and Energy Systems (PEDES)	Power Electronic Implementation of Adjustable Finite Bandwidth Constant Power Loads	A. Dey, U. Kundu and V. John		2024		Surathkal, India
251	IEEE International Conf. on Power Electronics, Drives and Energy Systems (PEDES)	Soft and Hard-Switched Synchronous Buck Converter Comparison for USB Power Delivery	Harshada V. A., U. Kundu, V. John, A. Kamath and S. Ramkumar		2024		Surathkal, India
252	IEEE International Conf. on Power Electronics, Drives and Energy Systems (PEDES)	Learning-Platform for Mixed Domain Control of Power Electronics Converters	Sumedh A. A., A. Dey, Nithyadas P. V., V. Shahu, U. Kundu and V. John		2024		Surathkal, India

253	International Conference on Signal Processing and Communications (SPCOM)	Hybrid Transceiver Design and Sparse CSI Learning in MU THz Hybrid MIMO systems	Garg A.; Kumar A.;Srivastava S.; Jagannatham A.K.		2024		Bangalore, India
254	IEEE 99th Vehicular Technology Conference, VTC2024-Spring	Bayesian Learning (BL)-based Extended Target localization in mmWave MIMO OFDM JRC Systems in the presence of Doppler and clutter	Maity P.; Srivastava S.; Jagannatham A.K.		2024		Singapore, Singapore
255	IEEE 99th Vehicular Technology Conference, VTC2024-Spring	Bayesian Learning-Based Sparse Channel Estimation in Visible Light ADO-OFDM Systems	Saxena S.; Srivastava S.; Sharma S; Jagannatham A.K.		2024		Singapore, Singapore
256	2024 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit)	Bayesian Learning for Sparse Parameter Estimation in OTFS-Aided mmWave MIMO Radar Systems	Jafri M.;Srivastava S.; Jagannatham A.K.		2024		Antwerp, Belgium
257	2024 IEEE 99th Vehicular Technology Conference (VTC2024-Spring)	BLMS and BRLS-based adaptive CSI estimation for IRS-assisted SISO and MIMO systems	Mehrotra A.; Srivastava S.;Jagannatham A.K.		2024		Singapore, Singapore
258	2024 IEEE 99th Vehicular Technology Conference (VTC2024-Spring)	Energy-Efficient Hybrid Beamforming for Integrated Sensing and Communication Enabled mmWave MIMO Systems	Singh J.;Srivastava S.; Jagannatham A.K.		2024		Singapore, Singapore
259	29th IEEE Asia-Pacific Conference on Communications (APCC)	Dynamic User Clustering for mmWave-Based NOMA Networks	Rai S.; Sharma E.; Varshney N .; Jagannatham A.K.		2024		Bali, Indonesia

260	2025 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)	Hybrid Precoding in mmWave Multiuser MIMO Systems with Delay Alignment Modulation (DAM)	Maity P. ; Chakraborty M.; Srivastava S.; Jagannatham A.K.		2025		Hyderabad, India
261	IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)	MMV-Aided Bayesian Learning for Simultaneous Sparse Channel Estimation in Visible Light DCO-OFDM Systems	Saxena S.; Srivastava S.; Jagannatham A.K.		2024		Guwahati, India
262	2025 IEEE Wireless Communications and Networking Conference (WCNC)	Maximizing Geometric Mean Rate in RIS-Assisted Integrated Sensing and Communication Systems	Singh J.; Srivastava S.; Jagannatham A.K.		2025		Milan, Italy
263	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	A Novel Dual-Band Matching Circuit Covering Wide Frequency Ratio suitable for 5G applications	G. Samykutha, S. Sharma, N. Poluri, A. Lahgere and S. Kumar		2024		Hyderabad, India
264	2024 International Conference on Simulation of Semiconductor Processes and Devices (SISPAD)	Improved Compact Modeling of Snapback Behaviour in ESD MOSFETs	A. Singhal, G. Gill, A. Lahgere, G. Pahwa and H. Agarwal		2024		San Jose, CA, USA
265	2024 IEEE Latin American Electron Devices Conference (LAEDC)	Scalability Prespective of Nanotube TFET Capacitorless DRAM in Sub-20 nm Regime	A. K. Kamal, N. Kamal and A. Lahgere		2024		Guatemala City, Guatemala
266	IEEE Electron Devices Technology and Manufacturing Conference (EDTM), B2:J17	Compact Modeling of GaN Based RF Switches	Y. S. Chauhan, M. M. Shayoub, M. S. Nazir, and A. Pampori		2025		Hong Kong
267	IEEE Electron Devices Technology and Manufacturing Conference (EDTM),	Benchmarking of the BSIM-BULK for Cryo-CMOS Design	W. Manzoor, N. Manzoor, Y. H. Zarkob, D. Nandi, A. K. Dutta, and Y. S. Chauhan		2025		Hong Kong

268	IEEE Electron Devices Technology and Manufacturing Conference (EDTM),	Compact Modeling of Kink Effect in BULK MOSFETs at Cryogenic Temperatures	N. Manzoor, W. Manzoor, D. Nandi, A. K. Dutta, and Y. S. Chauhan		2025		Hong Kong
269	IEEE Electron Devices Technology and Manufacturing Conference (EDTM),	Performance Evaluation of 6T-SRAM in Sub-3 nm Complementary FET	A. Kar, M. Benkhelifa, Y. S. Chauhan, and H. Amrouch		2025		Hong Kong
270	IEEE Asia Pacific Conference on Circuits and Systems	Innovations in Hardware Security: Leveraging FeFET Technology for Future Opportunities	A. Kar, Y. S. Chauhan, and H. Amrouch	-	2024	-	Taipei, Taiwan
271	ACM/IEEE International Symposium on Machine Learning for CAD (MLCAD)	Enhancing the Capabilities of Quantum Transport Simulations Utilizing Machine Learning Strategies	A. Naseer, Y. H. Zarkob, M. Rafiq, M. S. Nazir, O. Ahmad, A. Agarwal, S. Bhowmick, and Y. S. Chauhan	-	2024	-	Snowbird, USA
272	International Conference on Simulation of Semiconductor Processes and Devices (SISPAD)	An Improved Overlap Capacitance Model for LDMOS Transistors based on the BSIM-BULK Framework	A. Sharma, A. Pampori, M. Tang, R. Goel, M. Ahmed, V. Kubrak, C. Hu, and Y. S. Chauhan	-	2024	-	San Jose, USA
273	IEEE Computer Society Annual Symposium on VLSI (ISVLSI)	Technology Mapping for Cryogenic CMOS Circuits	B. Hien, M. Walter, V. M. van Santen, F. Klemme, S. S. Parihar, G. Pahwa, Y. S. Chauhan, H. Amrouch, and R. Wille	-	2024	-	-

274	7th International Workshop on UV Materials and Devices (IWUMD 2024)	Investigations of Trapping and De-trapping Phenomena with Positive and Negative Gate Bias in β -Ga ₂ O ₃ MOSCAPs with ALD Al ₂ O ₃ Gate Dielectric	B.-N. Chu, K.-H. Lam, S. K. Singh, Y. S. Chauhan, H.-M. Chen, C.-H. Yen, and T.-L. Wu	-	2024	-	Taipei, Taiwan
275	82nd Device Research Conference (DRC)	A SPICE-Compatible Model for Ferroelectric GaN HEMTs	M. Rafiq, M. S. Nazir, S. Chatterjee, Y. S. Chauhan, and S. Sahay	-	2024	-	Washington DC, USA
276	82nd Device Research Conference (DRC)	Hybrid FETs Based on Monolayer ZrI ₂ for Energy-Efficient Logic Applications	A. Naseer, A. Agarwal, S. Bhowmick, and Y. S. Chauhan	-	2024	-	Washington DC, USA
277	82nd Device Research Conference (DRC)	Impact of Multi-Domain on Ferroelectric Tunnel Junction Design Metrics	N. Pandey, Y. S. Chauhan, L. F. Register, and S. K. Banerjee	-	2024	-	Washington DC, USA
278	82nd Device Research Conference (DRC)	Impact of Multi-Domain Microscopic Interactions on Magnetic Tunnel Junction's Static and Transient Characteristics	N. Pandey, Y. S. Chauhan, L. F. Register, and S. K. Banerjee	-	2024	-	Washington DC, USA
279	IEEE International Reliability Physics Symposium (IRPS)	On the Severity of Self-Heating in FDSOI at Cryogenic Temperatures: In-depth analysis from Transistors to Full Processor	A. Kar, F. Klemme, Y. S. Chauhan, and H. Amrouch	-	2024	-	Dallas, USA
280	IEEE International Reliability Physics Symposium (IRPS)	Impact of Self-Heating in 5 nm FinFETs at Cryogenic Temperatures for Reliable Quantum Computing: Device-Circuit Interaction	S. S. Parihar, G. Pahwa, Y. S. Chauhan, and H. Amrouch	-	2024	-	Dallas, USA

281	6th International Youth Conference on Radio Electronics, Electrical and Power Engineering (REEPE)	Verilog-A Based ANN Large Signal Modeling of GaN HEMTs	M. H. Ansari, A. Jarndal, Y. S. Chauhan	-	2024	-	Sharjah, UAE
282	2024 10th Indian Control Conference, ICC 2024 - Proc	Time Delayed Control for Maneuvering of Magnetic Micro/Nanorobots in Drug Delivering Applications	N. Yadav, A. Patel, and B. Subudhi		2024	12–17	Bhopal, India
283	2024 10th Indian Control Conference, ICC 2024 - Proc	Classical-Control-Centric Characterization of Conservativeness in Mixed-Sensitivity Synthesis for SISO Systems	P. Ramprasad and T. Vishnudatta		2024	238–243	Bhopal, India
284	2024 10th Indian Control Conference, ICC 2024 - Proc	Curved Platooning of Position-Controlled Vehicles with Two Communication Topologies	R. Bhaskar, P. Wahi, and R. Potluri		2024	6–11	Bhopal, India
285	2024 10th Indian Control Conference, ICC 2024 - Proc	Distributed Cooperative Laws for Simultaneous Interception in Ring Coupled Unicycles	K. P. Singh and T. Tripathy		2024	196-201	Bhopal, India
286	2024 Tenth Indian Control Conference (ICC), IEEE	Real Eventual Exponential Positivity of Complex-valued Laplacians: Applications to Consensus in Multi-Agent Systems	Saxena, T. Tripathy, and R. Anguluri		2024	226–231	Bhopal, India
287	2024 Tenth Indian Control Conference (ICC), IEEE	Consensus in Heterogeneous Higher-Order Agents Driven by Geometric Mean under Weight-Unbalanced Digraph	P. Sanskar, T. R, V. K. Dunna, S. R. Sahoo, and A. Sen		2024	178–183	Bhopal, India

288	2024 IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), IEEE	Faster Object Detection in Videos for Autonomous Vehicle Applications	P. Ranjit and S. R. Sahoo		2024	1–7	10.1109/AVSS61716.2024.10672573
289	2024 European Control Conference (ECC)	Enhancing 3D Trajectory Tracking of Robotic Manipulator Using Sequential Deep Reinforcement Learning with Disturbance Rejection	S. Majumder and S. R. Sahoo		2024	NA	Stockholm, Sweden
290	2024 8th International Conference on Green Energy and Applications (ICGEA), IEEE	DLMS/COSEM based Simulation Platform for Smart Meter Applications,	M. K. Gupta, S. P. Singh, A. Sharma, and S. Ranjan Sahoo		2024	126–130	Singapore
291	2024 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), IEEE	Robust Backstepping Controller with Adaptive Sliding Mode Observer for a Tilt-Augmented Quadrotor With Uncertainty Using SO(3)	S. Seshasayanan and S. R. Sahoo		2024	2223–2228	Abu Dhabi, United Arab Emirates
292	Sensing for Agriculture and Food Quality and Safety XVI, M. S. Kim and B.-K. Cho, Eds., SPIE	Non-destructive method for assessing fruit quality using modified depthwise separable convolutions on hyperspectral images	T. Tyagi, P. Duraisamy, and T. Sandan		2024	12	National Harbor, Maryland, United States
293	2024 3rd International Conference on 6G Networking (6GNet), 2024	DoA Estimation in RIS-Assisted Network via Element Sampling and Sparse Reconstruction	S. Tripathi, A. M. Elbir, T. Sandhan, and R. M. Hegde		2024	NA	Paris, France

294	International Conference on Signal Processing and Communications (SPCOM), IEEE	Anomalous Node Detection in Socially-Aware Mobile IoT Networks Using Q-Learning	S. Tripathi, R. M. Hegde, and T. Sandhan		2024	1–5	Bangalore, India
295	15th International Conference on Computing Communication and Networking Technologies (ICCCNT), IEEE	Comparative Analysis of Fractal and ArUco marker for Navigation and Landing of Drones	S. Verma, A. K. Sharma, and T. Sandhan		2024	1–7	Kamand, India
296	15th International Conference on Computing Communication and Networking Technologies (ICCCNT), IEEE	Detection of Irregular Shapes Resembling Non-Uniform Gaps for UAV Navigation	S. K. Singh, A. K. Sharma, and T. Sandhan		2024	1–7	Kamand, India
297	15th International Conference on Computing Communication and Networking Technologies (ICCCNT), IEEE	Gait Pattern Recognition via Fusing Static and Dynamic Features in Single Stream Network,	Jain, Navya, D. Reddy, V. K. Pandey, and T. Sandhan		2024	1–7	Kamand, India
298	15th International Conference on Computing Communication and Networking Technologies (ICCCNT), IEEE	Automated Segmentation of Lesions Associated with Tinea Pedis Disease	B. Rai, A. K. Sharma, A. Saraswat, and T. Sandhan		2024	1–6	Kamand, India
299	15th International Conference on Computing Communication and Networking Technologies (ICCCNT), IEEE	Localization through RGB-D Camera for the Quad-rotor	V. D. Prabhakar, V. K. Pandey, A. K. Sharma, and T. Sandhan		2024	1–7	Kamand, India
300	International Conference on Pattern Recognition, 2025	Bandwise Attention in CycleGAN for Fructose Estimation from Hyperspectral Images	Tyagi and T. Sandhan		2025	204–218	doi.org/10.1007/978-3-031-78347-0_14

301	IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), IEEE	Robustness of General Type-2 TSK Fuzzy Systems,”	J. Singh, M. Aquib, T. Sharma, and N. K. Verma		2024	1–6	Yokohama, Japan
302	IEEE International Conference on Computer Vision and Machine Intelligence (CVMI), IEEE	Enhancing Facial Expression Recognition by Integrating Global Dependencies with Modified Non-Local Convolutional Neural Networks	M. Aquib, N. K. Verma, and M. J. Akhtar		2024	1–6	Prayagraj, India
303	IEEE Electron Devices Technology & Manufacturing Conference (EDTM	Analysis and modeling of negative transconductance in zero-threshold voltage MOSFETs at cryogenic temperatures	Wajid Manzoor, A.K. Dutta, and Yogesh Singh Chauhan		2024	1–3	Bangalore, India
304	IEEE Electron Devices Technol. Manuf. Conf. Strength. Glob. Semicond. EDTM 2024	Performance Comparison of Transparent and Opaque substrate P3HT:PCBM Organic Solar Cells	H. Anil Kumar Panda and S. Sundar Kumar Iyer		2024	NA	Bangalore, India
305	International Workshop on the Physics of Semiconductor and Devices	Lower Drying Temperature Process for Hole Transport Layer PEDOT: PSS in PCDTBT: PCBM Devices	Rawat, M., Iyer, S.S.K.		2024	NA	Singapore, Singapore
306	2024 IEEE International Reliability Physics Symposium (IRPS)	Impact of Self-Heating in 5nm FinFETs at Cryogenic Temperatures for Reliable Quantum Computing: Device-Circuit Interaction	S. S. Parihar, G. Pahwa, Y. S. Chauhan, and H. Amrouch		2024	NA	Grapevine, TX, USA
307	2024 IEEE Computer Society Annual Symposium on VLSI (ISVLSI)	Technology Mapping for Cryogenic CMOS Circuits	B. Hien et al		2024	NA	Knoxville, TN, USA

308	IEEE Asia Pacific Conference on Circuits and Systems (APCCAS), IEEE	Innovations in Hardware Security: Leveraging FeFET Technology for Future Opportunities	Kar, Y. S. Chauhan, and H. Amrouch		2024	457–460	Taipei, Taiwan
309	2024 International Conference on Simulation of Semiconductor Processes and Devices (SISPAD)	An Improved Overlap Capacitance Model for LDMOS Transistors based on the BSIM-BULK Framework	Sharma et al		2024	NA	San Jose, CA, USA
310	Proceedings of the 2024 ACM/IEEE International Symposium on Machine Learning for CAD	Enhancing the Capabilities of Quantum Transport Simulations Utilizing Machine Learning Strategies	Naseer et al		2024	NA	New York, United States
311	2024 8th IEEE Electron Devices Technology & Manufacturing Conference (EDTM)	Characterizing Analog Figure of Merits of 5 nm Technology Node FinFETs from 10 K to 400 K	S. S. Parihar, A. Kar, W. Wang, K. Imura, and Y. S. Chauhan		2024	NA	Bangalore, India
312	IEEE Transportation Electrification Conference and Expo (ITEC), IEEE	De-skewing Algorithm for Accurate Switching Loss Calculation in GaN HEMT	Gangwar, A. Chanekar, S. Anand, and A. Verma		2024	1–6	Chicago, IL, USA
313	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON), IEEE	Bifunctional Metasurface for Linear Polarization Conversion and Absorption using Vanadium Dioxide	Borkotoky, A. Mishra, and A. Verma		2024	1–4	Hyderabad, India
314	2024 IEEE Asia Pacific Conference on Circuits and Systems (APCCAS), IEEE	Low Noise Low Power Readout Circuit For Capacitance Based MEMS Accelerometers	N. Rakesh and R. S. A. Kumar		2024	100–104	Taipei, Taiwan

315	IEEE International Symposium on Circuits and Systems (ISCAS), IEEE	Flip-Around Level-Shifting For Switched-Capacitor Amplifiers to Improve the Closed-Loop Settling of Floating-Inverter Amplifiers	R. S. Ashwin Kumar		2024	1–5	Singapore, Singapore
316	IEEE Latin American Electron Devices Conference (LAEDC), IEEE	Scalability Prespective of Nanotube TFET Capacitorless DRAM in Sub-20 nm Regime,	K. Kamal, N. Kamal, and A. Lahgere		2024	1–4	Guatemala City, Guatemala
317	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON), IEEE	A Novel Dual-Band Matching Circuit Covering Wide Frequency Ratio suitable for 5G applications	Samyutha, S. Sharma, N. Poluri, A. Lahgere, and S. Kumar		2024	1–5	Hyderabad, India
318	International Conference on Simulation of Semiconductor Processes and Devices (SISPAD), IEEE	Improved Compact Modeling of Snapback Behaviour in ESD MOSFETs	Singhal, G. Gill, A. Lahgere, G. Pahwa, and H. Agarwal		2024	1–4	San Jose, CA, USA
319	Digital Holography and Three-Dimensional Imaging	Neural network based subspace analysis for estimation of phase derivatives from noisy interferograms	Dhruvam Pandey, Viren S Ram, and Rajshekhar Gannavarpu		2024	NA	Paestum, Italy
320	Optica Imaging Congress	Non-destructive Surface Defect Metrology using Deep Learning and Diffraction Phase Microscopy	Subrahmanya Keremane Narayan, Dhruvam Pandey and Rajshekhar Gannavarpu		2024	NA	Toulouse, France
321	Optica Imaging Congress	Deep learning-based automated defect detection in digital holographic microscopy	Dhruvam Pandey, Subrahmanya Keremane Narayan and Rajshekhar Gannavarpu		2024	NA	Toulouse, France

322	41st UIT International Heat Transfer Conference	Background-oriented schlieren improved by machine learning for studying convective flows	D. Ambrosini, A. Cicciozzi, T. de Rubeis, Viren S. Ram and Rajshekhar Gannavarpu		2024	NA	Napoli, Italy
323	International Conference on Experimental Mechanics (ICEM 2024	Complex wave retrieval method for nanometric surface metrology	Subrahmanya Keremane Narayan, Dhruvam Pandey and Rajshekhar Gannavarpu		2024	NA	Chennai, India
324	International Conference on Experimental Mechanics (ICEM 2024),	Signal subspace approach for optical non-destructive deformation metrology	Dhruvam Pandey, Jagadesh Ramaiaha and Rajshekhar Gannavarpu		2024	NA	Chennai, India
325	47th OSI Symposium, International Conference on Advances in Optics and Photonics Instrumentation, CSIR-CSIO,	Deep Learning based phase extraction in digital holographic interferometry	Viren S Ram, Rajshekhar Gannavarpu		2024	NA	Chandigarh, India
326	2024 24th International Conference on Transparent Optical Networks (ICTON), IEEE	Hybrid metasurfaces for light processing	D. Ray, A. Kiselev, S. Boroviks, and O. J. F. Martin		2024	1–4	Bari, Italy
327	Plasmonics: Design, Materials, Fabrication, Characterization, and Applications XXII, Y.-J. Lu and T. Tanaka, Eds., SPIE	An unconventional take on plasmonic metasurfaces	D. Ray et al		2024	55	San Diego, United States
328	Proc. Int. Conf. Numer. Simul. Optoelectron. Devices, NUSOD	Refractive Index Sensing Using Cylindrical Photonic Metasurfaces,	V. Balan, D. Ray, and S. Kanakambaran		2024	15-16	New Delhi, India
329	IEEE Power Energy Soc. Gen. Meet.,	Transactive Electric Vehicle Agent: A Deep Reinforcement Learning Approach,	S. Sharma, S. Battula, and S. N. Singh		2024	NA	Seattle, WA, USA

330	2024 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	Transient Stability Enhancement of a Synchronous Generator Using DFIG Considering its LVRT Capability	Mahawar, Jitendra Kumar, Gururaj Mirle Vishwanath, and Saikat Chakrabarti		2024	1–5	Mangalore, India
331	National Power Systems Conference (NPSC 2024),	Conditions for failure of numerical estimation of decaying DC component in fault current	R. Kumar, A. Mohapatra, and S. Chakrabarti		2024	NA	New Delhi
332	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), IEEE	Minimum Pulse Width Adjustment in Duties of SVPWM Technique for Synchronous Motor Drives Using a 3 Level NPC Inverter	S. Kumar, S. P. Das, and P. Kant		2024	1–6	Mangalore, India
333	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	Wide Speed Range Operation of PMSynRM for Electric Vehicle Application	V. K. S, S. C. Kadupu, V. Chaudhary, and P. Kant		2024	1–6	Mangalore, India
334	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	Design of Compact Si-IGBT Module Based Power Converter Fed Vector Controlled IM Drives for EV Application	N. Pandey, V. K. S, and P. Kant		2024	1–6	Mangalore, India
335	2024 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	A Modified T-Type Based Single-Stage 3-Level Isolated Bidirectional Off-Board Charger for Electric Vehicles	N. Pandey, P. Kant, and S. K. Dube		2024	1–6	Mangalore, India

336	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	Modified MTPA Controlled Interior Permanent Magnet Synchronous Motor Drive for Electric Vehicle Application Considering Magnetic Saturation	S. C. Kadupu, K. Vaishnav, N. Pandey, and P. Kant		2024	1–6	Mangalore, India
337	IEEE PEDES, Surathkal, India	Design of High-Frequency Current Transformer for Capacitive Wireless Power Transfer Systems,	S. Basak, U. Kundu and L.Umanand		2024	NA	Mangalore, India
338	Proc. IEEE PEDES, Surathkal	Soft and Hard-Switched Synchronous Buck Converter Comparison for USB Power Delivery	Harshada V. A., U. Kundu, V. John, A. Kamath and S. Ramkumar		2024	NA	Mangalore, India
339	IEEE PEDES, Surathkal, India	Learning-Platform for Mixed Domain Control of Power Electronics Converters	Sumedh A. A., A. Dey, Nithyadas P. V., V. Shahu, U. Kundu and V. John		2024	NA	Mangalore, India
340	IEEE ECCE, Phoenix, USA, 2024	Comparison of Air Core versus Ferrite Core Inductors for Capacitive Wireless EV Charging Systems	S. Basak, U. Kundu and L. Umanand		2024	NA	Phoenix, AZ, USA
341	IEEE ECCE, Phoenix, USA, 2024	ZVS Operation and Current Ripple Minimization in a Capacitively Blocked Dual Active Half-Bridge Converter	Nithyadas P. V., U. Kundu and V. John		2024	NA	Phoenix, AZ, USA

342	IEEE ECCE, Phoenix, USA, 2024	Characteristics-based Design of a DC-DC Series Resonant Converter with Voltage Doubler Rectifier for Photovoltaic Applications	Ramakrishna, U. Kundu and V. John		2024	NA	Phoenix, AZ, USA
343	IEEE PES Innovative Smart Grid Technologies - Asia (ISGT Asia)	Linear Modified Distribution Power Flow Analysis	N. Kumar, A. Mohapatra, and P. Bajpai		2024	1–6	Bengaluru, India
344	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	Study and Performance Evaluation of Design and Control Methods for CC/CV Based EV Charging in WPT Topologies,	Kumar, R. Gupta, A. Pandey, S. Samanta, and A. K. Rathore		2024	1–6	Mangalore, India
345	2024 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	Control Strategies for 3L-T-Type Inverter in Islanded and Grid-Tied Modes Using Controller-Hardware in the Loop	Kumar, Y. Sharma, A. Singh, and S. Samanta		2024	1–6	Mangalore, India
346	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	Accurate Modeling Approach of Litz-Wire Based Planar DD Spiral Coils for WPT Applications,	Pandey, S. Samanta, and A. Edpuganti		2024	1–6	Mangalore, India
347	IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society, IEEE	Precise Modeling Approach of Litz-Wire based Planar Rectangular Spiral Coils with Ferrite Core and Lateral Misalignment for WPT Applications	Pandey, J. Kumar, and S. Samanta		2024	1–6	Chicago, IL, USA
348	IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society, IEEE,	Modeling and Control of Three Level TNPC PFC Rectifier for lower THD	Y. Sharma, A. Singh, and S. Samanta,		2024	1–5	Chicago, IL, USA

349	4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), IEEE	Implementation of TNPC-Based Shunt Active Power Filters for Grid Harmonic Mitigation	Y. Sharma, A. Singh, and S. Samanta		2024	1–5	Hyderabad, India
350	8th International Conference on Green Energy and Applications (ICGEA), IEEE	DLMS/COSEM based Simulation Platform for Smart Meter Applications	K. Gupta, S. P. Singh, A. Sharma, and S. Ranjan Sahoo		2024		Singapore, Singapore
351	1st International Conference on Smart Energy Systems and Artificial Intelligence (SESAT), IEEE	Optimization of Economic Dispatch Problem using Nature-Inspired Pelican Optimization Algorithm	S. P. Singh, R. Khan, S. Chakrabarti, A. Sharma, and V. P. Singh		2024	1–5	Mauritius
352	IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), IEEE	Load Restoration Approach in Biogas Powered Microgrid	S. Verma, A. Sharma, and P. Bajpai		2024	1–6	Hyderabad, India
353	IEEE Power & Energy Society General Meeting (PESGM), IEEE	A Modified Load Flow Method for Enhancing Resiliency of Islanded Active Distribution Networks,	Y. Bansal, K. Chauhan, R. Sodhi, S. Chakrabarti, and A. Sharma		2024	1–5	Seattle, WA, USA
354	IEEE Power & Energy Society General Meeting (PESGM), IEEE	Stability Analysis of Grid-Connected Microgrid Integrated with Biomass Plant	Kumari, A. Sharma, B. Tran, and D. Alahakoon		2024	1–5	Seattle, WA, USA
355	IEEE International Conference on High Voltage Engineering and Applications (ICHVE), IEEE	Thermo-Mechanical and Electrical Stress Analyses of HVDC Cable Joint with Load Cycle	P. Borthakur and A. R. Verma		2024	1–4	Berlin, Germany
356	7th International Conference on Condition Assessment Techniques in Electrical Systems (CATCON)	Detection of Interface Failure Based on Thermal Imaging in Outdoor Composite Insulators	N. Tripathi and A. R. Verma,		2024	216–219	Kolkata, India

357	2024 IEEE International Conference on High Voltage Engineering and Applications (ICHVE), IEEE	Thermal Investigations on Service Aged Composite Traction Insulators	N. Tripathi and A. R. Verma		2024	1–4	Berlin, Germany
358	14th International Conference on the Properties and Applications of Dielectric Materials (ICPADM), IEEE	Feature Extraction of Chalking in Silicone Rubber Insulators Using Digital Image Processing	R. Deb and A. R. Verma		2024	1–4	Phuket, Thailand
359	14th International Conference on the Properties and Applications of Dielectric Materials (ICPADM), IEEE	Failure Analysis of Field-Aged Composite Insulator Used in Traction Systems	N. Tripathi and A. R. Verma		2024	54–57	Phuket, Thailand
360	International Conference on Power Electronics Drives and Energy Systems (PEDES), NIT Karnataka	Transient Stability Enhancement of a Synchronous Generator Using DFIG Considering its LVRT Capability	Jitendra Kumar Mahawar, Gururaj Mirle Vishwanath, and Saikat Chakrabarti		2024	NA	Surathkal, iNDIA
361	National Power System Conference (NPSC), IIT Indore India	Optimizing Fairness in Peer-to-Peer Energy Systems for Effective Duck Curve Management	Mayank Arora, Gururaj M V, N Chilamkurti		2024	NA	IIT Indore India
362	13th International Conference on Renewable Energy Research and Applications (ICRERA)	A Novel Approach to Sustainable Energy Trading Optimizing Prosumer Incentives and Carbon Footprint,	Arora, G. M. Vishwanath, A. Sharma and N. Chilamkurti		2024	1022-1027	Nagasaki, Japan
363	23rd National Power Systems Conference (NPSC)	Diksha Singh, Vishnu Vardhan Gurralla, Abhishek Sharma, Gururaj M V	Diksha Singh, Vishnu Vardhan Gurralla, Abhishek Sharma, Gururaj M V		2024	NA	IIT Indore India

364	IEEE 11th Power India International Conference (PIICON),	Hardware Implementation and Validation of Suitable Control Algorithms to Improve Power Quality of a PV-Integrated Distribution System,	Sidhi Vishnu Vardhana Chary, M Maurya, Manoja Kumar Behera, Ankush Sharma, Gururaj M V		2024	1–6	Jaipur, India
365	IEEE Innovative Smart Grid Technologies - Asia (ISGT Asia)	Optimal Mobile Power Source Depot Placement for Resilient Coupled Power Transport Network	D. Singh, L. Behera, and G. M. Vishwanath		2024	NA	Bangalore, India
366	5th International Conference on Sustainable Energy and Future Electric Transportation (SEFET)	Boosting Solar Load Forecasting Using Artificial Intelligence and Hardware Prototype	Dannapaneni Sandeep, Abhishek Sharma, Mukesh Maurya, Vishnu Vardhan Chary, Gururaj M V		2024	NA	Hyderabad
367	IEEE Students Conference on Engineering and Systems (SCES),	Short-Term Load Forecasting for Indian Railways Using Machine Learning Models	V. V. Gurralla, A. Sharma and G. M. Vishwanath		2024	1–6	Prayagraj, India
368	IEEE Antennas Propag. Soc. AP-S Int. Symp	Highly Selective Polarization Insensitive Wideband A-T-A Frequency Selective Rasorber	K. Shahi, B. Bandyopadhyay, Aakash, R. K. Dutta, A. Biswas, and K. V. Srivastava		2024	1827–1828	Firenze, Italy
369	IEEE Microwaves, Antennas, Propag. Conf. MAPCON	Multilayer Fourth Order Single Band Aperture Coupled Bandpass Frequency Selective Surface	R. Srisatya, A. Biswas, S. Mukherjee, and P. Chongder		2024	NA	Hyderabad, India
370	IEEE Microwaves, Antennas, Propag. Conf. MAPCON	Novel Probe-fed SIW to Dielectric Waveguide Transition for Ku-Band Applications	S. K. Sahoo, A. Biswas, and M. J. Akhtar		2024	NA	Hyderabad, India

371	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	SIW Cavity-Backed Semi-array Antenna for Dual-band MIMO applications	V. C. Nare, R. K. Chaudhary, and A. Biswas		2024	NA	Hyderabad, India
372	IEEE Asia-Pacific Microwave Conference (APMC)	Design of Wideband Class AB Power Amplifier Using Improved SRFT Matching for Low Power Applications	Ahsan, S. Sutradhar, and M. J. Akhtar		2024	593–595	10.1109/APMC 60911.2024.10 867618
373	2024 IEEE Asia-Pacific Microwave Conference (APMC),	Integration of Triboelectric Nanogenerator Device with RF Rectifier for Hybrid Energy Harvesting	Fatima, B. Fatma, and M. J. Akhtar		2024	1314–1316	10.1109/APMC 60911.2024.10 867570
374	IEEE Asia-Pacific Microwave Conference (APMC)	Thermally Tunable Ultra-wideband Terahertz Absorber Using VO 2 Based Novel Metasurface	M. Shahnawaz, H. B. Baskey, and M. J. Akhtar		2024	154–156	10.1109/APMC 60911.2024.10 867756
375	Asia-Pacific Microwave Conference (APMC)	ITO-PVB-Based Flexible Transparent Wideband Metamaterial Absorber for Radar Applications	Choudhary and M. J. Akhtar		2024	928–930	10.1109/APMC 60911.2024.10 867522
376	IEEE Nanotechnology Materials and Devices Conference (NMDC)	Indium Tin Oxide Based Flexible Transparent Ultrawideband Metamaterial Absorber	Choudhary and M. J. Akhtar		2024	137–140	Salt Lake City, UT, USA
377	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Polarization Insensitive Near Unity Absorption FSS for RF Energy Harvesting Application	Fatima and M. J. Akhtar		2024	1–4	Hyderabad, India
378	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON),	Circular SIW Microwave Sensor for Methanol Detection in Spurious Liquors	Azad, A. Kumari, and M. J. Akhtar		2024	1–4	Hyderabad, India

379	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Design and Optimization of Featherweight, UltraThin, Flexible PET/CNF/PU Multilayered Sandwich Structure for Absorption-Dominant EMI Shielding	Tahalyani, M. J. Akhtar, and K. K. Kar		2024	1–5	Hyderabad, India
380	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Silver Nanowire based Highly Flexible Lightweight Optically Transparent Thin Film for EMI Shielding Applications	Choudhary and M. J. Akhtar		2024	1–4	Hyderabad, India
381	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Improved RF Subsurface Imaging Under Complex Terrain by Synergistic Use of Radar and LiDAR	Swain, P. Gupta, A. Khanobish, C. Bhaumik, T. Chakravarty, and M. J. Akhtar		2024	1–4	Hyderabad, India
382	2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Metasurface Lens Antenna for Microwave Subsurface Anomaly Detection and Imaging	Chakravarty and M. J. Akhtar		2024	1–4	Hyderabad, India
383	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON),	AMC based Antenna Sensor for Wireless Testing and Monitoring of Dielectric Materials	Kumar, P. Azad, and M. J. Akhtar		2024	1–4	Hyderabad, India
384	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Ultrawideband Metasurface Microwave Absorber based on Laser Induced Graphene	M. Shahnawaz, H. B. Baskey, and M. J. Akhtar		2024	1–5	Hyderabad, India

385	Automation of Conducted Susceptibility Testing According to IEC 61000-4-6	Automation of Conducted Susceptibility Testing According to IEC 61000-4-6	Roshan, S. Sharma, A. . Harish, and M. . Akhtar		2024	1–4	Hyderabad, India
386	IEEE International Conference on Computer Vision and Machine Intelligence (CVMI)	Enhancing Facial Expression Recognition by Integrating Global Dependencies with Modified Non-Local Convolutional Neural Networks	M. Aquib, N. K. Verma, and M. J. Akhtar		2024	1–6	Prayagraj, India
387	IEEE INC-USNC-URSI Radio Science Meeting (Joint with AP-S Symposium)	Quad-Band RF Planar Sensor Using CSRR for Subsurface Imaging of Coated Composites	Kumari, G. Govind, S. P. Das, and M. J. Akhtar		2024	312–313	Florence, Italy
388	IEEE INC-USNC-URSI Radio Science Meeting (Joint with AP-S Symposium)	Glycemic Profile Monitoring Using CPW Line Excited Electric LC Resonator Based RF Biosensor	P. Azad, A. Kumari, and M. J. Akhtar		2024	24–25	Florence, Italy
389	IEEE Space, Aerospace and Defence Conference (SPACE), IEEE	Metasurface Loaded Conformal Load-bearing Antenna Structure for Defence Aircraft	Kumar and R. K. Chaudhary		2024	298–300	Bangalore, India
390	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Widebeam Four-element Filtering Magneto-electric Dipole MIMO Antenna for X/Ku-bands	Kumar and R. K. Chaudhary		2024	1–4	Hyderabad, India
391	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Compact VHF/UHF Wideband Omnidirectional Antenna using a New Modified Reflective Ground Plane for Gain Enhancement	R. Raj, A. Kumar, and R. K. Chaudhary		2024	1–4	Hyderabad, India

392	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	Design of a Multilayer Transmissive-Reflective Frequency Selective Surface with Wide Stop-band for mmWave Applications	Dileep, S. Paul, R. K. Chaudhary, and K. V. Srivastava		2024	1–4	Hyderabad, India
393	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON), IEEE	A Double Slotted Antipodal Vivaldi Yagi-Uda Antenna for 5G mmWave MIMO Applications,	S. Paul, R. K. Chaudhary, and K. V. Srivastava		2024	1–4	Hyderabad, India
394	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON),	A Modified Octagonal Ring-Loaded Cross Dipole FSS for mmWave Electromagnetic Shielding,	Kumari, R. Sharma, H. Rahmani, and R. K. Chaudhary		2024	1–4	Hyderabad, India
395	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON),	Investigation of Dual-Band Dual-sense Circularly Polarized MIMO DRA for 5G millimetre wave Applications	Sanghmitra, T. Kumari, R. K. Gangwar, and R. K. Chaudhary		2024	1–4	Hyderabad, India
396	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON), IEEE	A Tilted-modified Phi-shaped Reflective Type Polarizer for V/W-Band Applications,	S. Pourush and R. K. Chaudhary		2024	1–4	Hyderabad, India
397	IEEE Asia-Pacific Microwave Conference (APMC),	A Low-Profile SIW-Based Self-Diplexing Antenna for DSRC and WiFi Applications in Vehicular Connectivity	K. Pandey, S. Kumari, K. K. Suman, R. K. Gangwar, and R. K. Chaudhary		2024	136–138	10.1109/APMC 60911.2024.10 867731
398	4th URSI Atlantic RadioScience Conference – AT-RASC 2024, Gent, Belgium: URSI – International Union of Radio Science	An Idea to Reduce the Mutual Coupling in Rectangular Dielectric Resonator Antenna for MIMO Applications	M. Mishra and R. K. Chaudhary		2024	1–4	10.46620/URSI ATRASC24/MS HS9073

399	IEEE International Symposium on Antennas and Propagation and INC/USNC-URSI Radio Science Meeting (AP-S/INC-USNC-URSI),	Mitigating Radiation Pattern Ripples Due to Edge Diffraction in Central Element of a Large Array Using Top Hat Loaded High Impedance Surface	S. Srivastava, S. M. S, and A. R. Harish		2024	2649–2650	Firenze, Italy
400	2024 IEEE International Symposium on Antennas and Propagation and INC/USNC-URSI Radio Science Meeting (AP-S/INC-USNC-URSI),	Ku-K Dual Band Antenna-In-Package Design of Array of Subarray for Beamforming Applications,	R. Mishra and A. R. Harish		2024	2757–2758	Firenze, Italy
401	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	1.5-bit Passive RIS for Single Beam Anomalous Reflection	S. Rana, Y. S. Sreenija, S. Kumar, and A. R. Harish		2024	1–4	Hyderabad, India
402	IEEE Space, Aerospace and Defence Conference (SPACE), IEEE	Multi-Beam Passive RIS for Simultaneous Multi-Target Connectivity Applications	S. Rana, Y. S. Sreenija, S. Kumar, and A. R. Harish		2024	741–745	Bangalore, India
403	IEEE Space, Aerospace and Defence Conference (SPACE)	Direction Finding Using Null Steering Technique,”	S. Kumar, R. Mishra, Y. S. Sreenija, S. Rana, and A. R. Harish		2024	746–749	Bangalore, India
404	IEEE Electron Devices Technol. Manuf. Conf. Strength. Glob. Semicond. EDTM 2024	Class B _{JF1} : Pushing the boundaries of the performance of RF Power Amplifiers	M. M. De Souza and N. Poluri		2024	NA	Bangalore, India
405	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON),	A Methodology to Characterize the Virtual Gate Effect in a Power Amplifier,	N. Poluri and M. M. DeSouza		2024	1–4	Hyderabad, India

406	2024 IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Highly Selective Polarization Insensitive Wideband A-T-A Frequency Selective Resorber	K. Shahi, B. Bandyopadhyay, Aakash, R. K. Dutta, A. Biswas, and K. V. Srivastava		2024	NA	Florence, Italy
407	IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Single Layer Polarization Insensitive Wideband Time Modulated Frequency Selective Surface for Radar Countermeasure	Bandyopadhyay and K. V. Srivastava		2024	NA	Florence, Italy
408	IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Measurement Considerations of FSS Absorber in Free Space	S. Bhattacharya, K. Chaudhary, Aakash, and K. V. Srivastava		2024	NA	Florence, Italy
409	IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting,	Transparent ITO-Coated PET based Wideband and Wideangle Microwave Absorber	Yadav, J. Ramkumar, and K. V. Srivastava		2024	NA	Florence, Italy
410	IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	77 GHz SISL based Dual-circularly Polarized Filtenna for Automotive Radar Applications,	Aakash, A. K. Rai, and K. V. Srivastava		2024	NA	Florence, Italy
411	IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Wideband Dual-Polarized Antenna Array for Base Station Applications	R. K. Dutta, S. Singh, Aakash, R. K. Jaiswal, and K. V. Srivastava		2024	NA	Florence, Italy
412	IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting,	mm-wave Mobile Handset Antenna with Beam Steering Capability for 5G Application,	K. Rai, R. K. Dutta, Aakash, and K. V. Srivastava		2024	NA	Florence, Italy

413	IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Design of Switchable AT/AR Frequency Selective Resonator with Transmission/Reflection in X Band	Gera, R. Vishwakarma, A. Dileep, and K. V. Srivastava		2024	NA	Florence, Italy
414	IEEE International Symposium on Antennas and Propagation and INTC-USNC-URSI Radio Science Meeting	Design of Vertical SRR based Absorber for RCS Reduction of Aircraft Equipped with Lightning Strike Protection	R. Vishwakarma, A. Rana, M. Saikia, Aakash, and K. V. Srivastava		2024	NA	Florence, Italy
415	IEEE Space, Aerospace and Defence Conference (SPACE)	Design of AMC Backed Printed Monopole Antenna for GPS and Satellite Applications,	Bandyopadhyay, R. K. Dutta and K. Vaibhav Srivastava		2024	282-285	Bangalore, India
416	IEEE Space, Aerospace and Defence Conference (SPACE)	High Gain Fabry-Perot Cavity Antenna Using Single Layered Partially Reflective Surface	R. K. Dutta, B. Bandyopadhyay and K. V. Srivastava		2024	252-254	Bangalore, India
417	URSI Regional Conference on Radio Science (URSI-RCRS),	A Double Slotted Antipodal Vivaldi Antenna for 5G mmWave MIMO Applications,	S. Paul, R. K. Chaudhary, and K. V. Srivastava		2024	NA	Nainital, India
418	Asia-Pacific Microwave Conference (APMC-2024),	Design of a Polarization Insensitive Compact Absorptive Frequency Selective Reflector with Narrow Transition Band	Dileep, S. Paul, R. K. Chaudhary, and K. V. Srivastava		2024	NA	Bali, Indonesia
419	Microwaves, Antennas, and Propagation Conference (MAPCON),	Broadband Time-Modulated FSS for C, X, and Ku Band Radar Countermeasures	Bandyopadhyay and K. V. Srivastava		2024	NA	Hyderabad, India

420	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON),	Design of a Multilayer Transmissive-Reflective Frequency Selective Surface with Wide Stop-Band for mmWave Applications	Dileep, S. Paul, R. K. Chaudhary, and K. V. Srivastava		2024	NA	Hyderabad, India
421	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON),	A Double Slotted Antipodal Vivaldi Yagi-Uda Antenna for 5G mmWave MIMO Applications,	S. Paul, R. K. Chaudhary, and K. V. Srivastava		2024	NA	Hyderabad, India
422	IEEE Conference on Artificial Intelligence (CAI)	An efficient TF-IDF based Query by Example Spoken Term Detection,	Singh, V. Arora, and Y.-P. P. Chen		2024	170–175	Singapore, Singapore
423	34th International Workshop on Machine Learning for Signal Processing (MLSP),	Meta-Learning-Based Supervised Domain Adaptation for Melody Extraction	R. Saxena and V. Arora		2024	1–6	London, United Kingdom
424	ICASSP 2024 - 2024 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), IEEE	Learning Ontology Informed Representations with Constraints for Acoustic Event Detection	Raina, S. I. Sheikh, and V. Arora		2024	1086–1090	Seoul, Korea, Republic of South Korea
425	IEEE International Symposium on Information Theory (ISIT)	Dense KO Codes: Faster Convergence and Reduced Complexity Through Dense Connectivity	S. Srivastava and A. Banerjee,		2024	1415–1420	Athens, Greece
426	International Conference on Signal Processing and Communications (SPCOM), IEEE	New Two-Dimensional Z-Complementary Array Sets with Low Column Sequence PMEPRs	S. Das and A. Banerjee		2024	1–5	Bangalore, India
427	IEEE International Conference on Machine Learning for Communication and Networking (ICMLCN)	Efficient Bidirectional RNNs for Substitution Error Correction in DNA Data Storage	S. Srivastava, K. G. Benerjee, and A. Banerjee		2024	434–439	Stockholm, Sweden

428	IEEE Wireless Communications and Networking Conference (WCNC),	On the Caching Performance of Vehicular Networks with Platooned Traffic	V. Sabu, K. Pandey, A. K. Gupta, and A. Banerjee		2024	1–6	Dubai, United Arab Emirates
429	International Conference on Signal Processing and Communications (SPCOM),	Impact of Directional Sensing on Cognitive mmWave Networks with Multiple Primary and Secondary Links	S. Tripathi, A. K. Gupta, and S. Amuru		2024	1–5	Bangalore, India
430	IEEE Wireless Communications and Networking Conference (WCNC),	On the Caching Performance of Vehicular Networks with Platooned Traffic	V. Sabu, K. Pandey, A. K. Gupta, and A. Banerjee		2024	1–6	Dubai, United Arab Emirate
431	International Conference on Signal Processing and Communications, SPCOM 2024	Anomalous Node Detection in Socially-Aware Mobile IoT Networks Using Q-Learning,	S. Tripathi, R. M. Hegde, and T. Sandhan		2024	1–5	Bangalore, India
432	International Conference on Signal Processing and Communications (SPCOM)	Anomalous Node Detection in Socially-Aware Mobile IoT Networks Using Q-Learning	S. Tripathi, R. M. Hegde, and T. Sandhan		2024	1–5	Bangalore, India
433	3rd International Conference on 6G Networking (6GNet),	DoA Estimation in RIS-Assisted Network via Element Sampling and Sparse Reconstruction	S. Tripathi, A. M. Elbir, T. Sandhan, and R. M. Hegde		2024	117–121	10.1109/6GNet63182.2024.10765606
434	NOMS 2024-2024 IEEE Network Operations and Management Symposium	Data Distribution-Aware Model Aggregation for non-IID Data in a Federated Learning Framework,	Kushwaha, A. Mehrotra, and R. M. Hegde		2024	1–7	Seoul, Korea, Republic of South Korea
435	29th IEEE Asia-Pacific Conference on Communications (APCC)	Dynamic User Clustering for mmWave-Based NOMA Networks	Sudhakar Rai, Ekant Sharma, Neeraj Varshney, and Aditya K. Jagannatham		2024	NA	Bali, Indonesia

436	IEEE 99th Vehicular Technology Conference (VTC)-Spring	Energy-Efficient Hybrid Beamforming for Integrated Sensing and Communication Enabled mmWave MIMO Systems	Jitendra Singh, Suraj Srivastava, and A. K. Jagannatham		2024	NA	Singapore, Singapore
437	99th Vehicular Technology Conference (VTC)-Spring,	BLMS and BRLS-based adaptive CSI estimation for IRS-assisted SISO and MIMO systems	Mehrotra, Suraj Srivastava, and A. K. Jagannatham		2024	NA	Singapore, Singapore
438	1) 2024 EuCNC& 6G Summit – PHY	Bayesian Learning for Sparse Parameter Estimation in OTFS-Aided mmWave MIMO Radar Systems	Meesam Jafri, Suraj Srivastava, and A. K. Jagannatham		2024	NA	Antwerp, Belgium
439	IEEE 99th Vehicular Technology Conference, VTC2024-Spring	Learning-Based Sparse Channel Estimation in Visible Light ADO-OFDM Systems	Shubham Saxena, Suraj Srivastava, Saurabh Sharma and A. K. Jagannatham		2024	NA	Singapore, Singapore
440	99th Vehicular Technology Conference, VTC2024-Spring	Learning (BL)-based Extended Target localization in mmWave MIMO OFDM JRC Systems in the presence of Doppler and clutter	Priyanka Maity, Suraj Srivastava, and A. K. Jagannatham		2024	NA	Singapore, Singapore
441	1) Signal Processing and Communications(SPCOM), 2024	Hybrid Transceiver Design and Sparse CSI Learning in MU THz Hybrid MIMO systems	Abhisha Garg, Akash Kumar, Suraj Srivastava and Aditya K. Jagannatham		2024	2231 - 2245	NA
442	International Conference on Pattern Recognition (ICPR), 2024.	CMAEH: Contrastive masked autoencoder based hashing for efficient image retrieval	Mehul Kumar, Aditya Sharma, Prerana Mukherjee, and Koteswar Rao Jerripothula		2024	NA	NA

443	SPIE: International Conference on Image, Video Processing and Artificial Intelligence (IVPAI)	TriMoFaceNet: A Trimmed MobileFaceNet Architecture for Resource-constrained Environments,	Pritesh Prakash, Prinsh Singh, and Koteswar Rao Jerripothula		2024	NA	NA
444	International Conference on Artificial Intelligence and Statistics (AISTAT)	Sharpened Lazy Incremental Quasi-Newton Method	S. Lahoti, S. Senapati, K. Rajawat, A. Koppel		2024	NA	Valencia, Spain
445	34th International Workshop on Machine Learning for Signal Processing (MLSP),	Non-Convex Constrained Stochastic Successive Convex Approximation	M. Idrees, L. Arora and K. Rajawat		2024	NA	London, United Kingdom
446	34th International Workshop on Machine Learning for Signal Processing (MLSP)	Analysis of Decentralized Stochastic Successive Convex Approximation for Composite Non-Convex Problems	S. D. Sharma, B. M. Idrees and K. Rajawat		2024	NA	London, United Kingdom
447	14th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP),	Enhanced XR Services: Performance Analysis with Integration of Passive Optical Networks (PONs),”	Patel, R. Bhattacharyya, and Y. N. Singh		2024	80–85	Rome, Italy
448	IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)	CLEAR: A Non-Linear Impairment-Aware Resource Allocation Algorithm for MultiBand Elastic Optical Networks	Kumari, S. Petale, S. Subramaniam, and Y. N. Singh		2024	NA	Guwahati, India
449	IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)	CLEAR: A Non-Linear Impairment-Aware Resource Allocation Algorithm for MultiBand Elastic Optical Networks	Kumari, S. Petale, S. Subramaniam, and Y. N. Singh		2024	1–6	Guwahati, India

450	IEEE Virtual Conference on Communications (VCC),	Multi-Channel RMSA Using Spectrum Partition and Split-Spectrum Approach in Elastic Optical Network	Srivastava, V. Lohani, A. Sharma, and Y. N. Singh		2024	1–6	NY, USA
451	IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom),	Augmenting eXtended Reality (XR) Performance Through Gated Bandwidth Allocation in EPON	Patel and Y. N. Singh		2024	84–89	Tbilisi, Georgia
452	IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom)	Optimizing Variance of Link Betweenness Centrality distributing among links in Elastic Optical Networks	P. Upadhyay and Y. N. Singh,		2024	386–389	Tbilisi, Georgia

Department of Humanities and Social Sciences

453	Proceedings of the Design Society	Application of universal design principles on computer mouse interface: developing a universal mouse pointing and control system to provide affordance to the left-handed users	Basak, A.; Roy, S.T.	4	2024	2317-2326	
454	IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops	Video Based Computational Coding of Movement Anomalies in ASD Children	Singh, P.; Pathak, A.; Ganai, U.J.; Bhushan, B.; Subramanian, V.K.		2024	400-409	

Department of Management Sciences

455	Strategic management forum 2024	Manging Post-Investment Relationships between Founders & Investors in New Venture Governance	Dwived M. S.; Phani B. V.		2024		IIM Mumbai
456	Technology Transfer Society (T2S) Annual Meeting 2024	Do specialised incubators outperform sector-agnostic ones? Evidence from Emerging Startup Ecosystem	Bhaskar R. A.; Phani B. V.; Thomas J.; Dutta S.		2024		Brussels , Belgium
457	45th IAEE International Conference	Benchmarking Operational and quality of service parameters for electricity distribution utilities: A three-stage data envelopment analysis approach	Sufia; Singh A.		2024		Bogazici University in Istanbul, Turkiye
458	45th IAEE International Conference	Market-Linked Futures Contract: A Stackelberg Game Theoretic Approach	Gupta G,; Singh A.		2024		Bogazici University Isatanbul, Turkey
459	45th IAEE International Conference	Telescopic Tariffs & Indian Consumers: A Smart Meter Investigation of Elasticity	Sharma M.; Singh A.		2024		Bogazici University Isatanbul, Turkey
460	The 33rd annual EURO Conference at DTU - Copenhagen, Denmark	A Strategic Framework for Maximizing Utilization of Minigrids in India: Achieving Financial Sustainability and Productive Energy Integration	Sharma M.; Singh A.		2024		DTU - Copenhagen, Denmark

461	Seventeenth Integrated Assessment Modeling Consortium Annual Meeting (IAMC) 2024	The Energy Storage Requirement for Decarbonizing Indian Power Sector: Analyzing Emission Cap Scenario through the MESSAGEix-FlexTool	Malode S. N.; Singh A.		2024		Yonsei University, Seoul, South Korea
462	Next Generation Challenges in Energy-Climate Modelling Workshop 2024	Emission Cap Scenarios for Indian Power Sector using MESSAGEix Modelling Framework	Malode S. N.; Singh A.		2024		University of Reading, Reading, Great Britain
463	IIASA Summer School for Systems Modeling 2024	Setting Emission Cap on Thermal Power Sector for Indian Carbon Market: A Scenario Analysis using MESSAGEix Modelling Framework	Malode S. N.; Singh A.		2024		International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria
464	23rd National Power Systems Conference (NPSC) 2024	Analyzing the Operational Behavior of Standalone Grid-Scale Battery Energy Storage System (BESS): A Chhattisgarh State Case Study	Marandi A.; Singh A.		2024		Indian Institute of Technology, Indore
465	DEA 2024: International Conference on Data Envelopment Analysis	Performance assessment of Indian electricity distribution utilities using reliability indices: A two-stage data envelopment analysis	Sufia; Singh A.		2024		Birla Institute of Management Technology, India
466	1st Modern Finance Conference	The Issue and Challenges of CBDC: Bibliometric Literature Review	Tripathi A.; Mishra L.		2024		Warsaw, Poland

467	11th International Conference on Sustainability	The Issues and Challenges of CBDC: Bibliometric Literature Review	Tripathi A.; Mishra L.		2024		IIM Shilong
468	11th Tunisian Society for Financial Studies (TSFS2024)	Online Conference Talk	Tripathi A.; Mishra L.		2024		Monastir (Tuunisia)
469	International Conference on Operations Research 2024	Quality Cost Information Asymmetry in Mobile Application Supply chain and Two Port Tariff Contract	Khanra A.; Khan Mo. K. R.		2024		Technical University of Munich
470	India Management Research Conference: IIM Ahmedabad (IMRC 2024)	Toward the measurement of remote psychological capital: scale development and validation	Arora V.; Shukla A.		2024		IIM Ahmedabad, Gujarat
471	POMS India International Conference	Information asymmetry about used product collector's efficiency in the reverse supply chain	Kumar A.; Venaktaraman S. V.		2024		IIM Ranchi
472	International Conference on Business Analytics & Management Sciences (BAMS-2024)	Optimal remanufacturing strategies of an OEM producing two competing products in a reverse supply chain	Kumar A.; Venaktaraman S. V.		2024		IIT Bombay
473	27th Annual International conference of the society of Operations Management (SOM 2024)	Policy mechanisms for decarbonisation through residue management	Samal P.; Venaktaraman S. V.		2024		IMT Ghaziabad
474	XXVII Annual International Conference of the Society of Operations Management (SOM 2024)	Enhancing EV Deployment with a Game Theoretic Model: A Case Study of Chandigarh, India	Mohd. Vaseem; Venaktaraman S. V.		2024		IMT Ghaziabad

475	SIMSARC (Won best paper award in faculty category)	Reexamining the relationship between creditor rights and corporate culture through cultural lens	Mulay H. R.; Ghosh A.; Seth R.		2024		Pune
476	2024 Annual Meeting of the International Indian Statistical Association	The Impact of Data Quality on Predictive Model Performance - A Simulation Study	Bhaktha N.; Bansal V.		2024		Kerala, India
477	2024 Annual Meeting of the American Educational Research Association	Identifiability and Interpretability of Excess Zero and Overdispersed Longitudinal Count Data Models.	Bhaktha N.; Ann A. O'Connell		2024		Philadelphia, USA
478	2024 Annual Meeting of the National Council on Measurement in Education	Susceptibility Of Data Quality Indicators To Prevalence Of Low Quality Responses	Bhaktha N.		2024		Philadelphia, USA
479	India-UK Symposium on Decarbonization and Sustainability: Engaging Academia and Industries for Net- Zero [Sustain-NZ]	Ethanol production in India: Learnings from global value chain"	Reddy D.; Prasad M.; Jindal R.		2024		Kanpur
480	IIPN (Indian Public Policy Network) 2024 Conference	Part Of Panal: - Climate Solutions For Tomorrow: Advancing Policy Design Capacities for Effective and Durable Outcomes	Bhattacharya P.; Prasad M.		2024		IIT Bombay
481	United Nations Climate Change Conference 29	panelist UN COP29 side events Global Pathways to Green Cities and Coastal Area: A vision for ocean health, climate resilience and community justice	Prasad M.		2024		Baku

482	Twelfth INSEE Biennial Conference SDGs and Climate Change: Understanding the Imperatives and Intersections,	Low carbon development in India: Role of institutions in the solar and wind energy,	Prasad M.		2024		BML Munjal University, India
483	International Indian Statistical Association (IISA Conference)2024	Recent Developments in Sequential Analysis and Statistical Reliability	Sengupta R. N.		2024		Cochin University of Science and Technology, Kochi, India
484	28th Cambridge Internantional Manufacturing Symposium: Future-Proofing Manufacturing Supply Chains	Harmonizing Foreign Trade and Domestic Production Policies in Global Agricultural Supply Chain	Sharma S.; Sengupta R. N.		2024		University of Cambridge , UK
485	GATES 2024 Indonesia Conference	Asean Incubation meeting sponserd by DST and coordinated by SIIC-attending as PIC of SIIC	Philip D.		2024		Discovery Plaza, Indonesia
486	India Management Research Conference	Digital vs Traditional: Does the mode of Financial Inclusion Influence Financial Resilience? Evidence from Emerging Markets	Verma R.; Chatterjee D.		2024		IIM Ahmedabad
487	International Conference on Recent Advances in Design and Manufacturing	Additive Manufacturing and Digital Manufacturing Supply Chain: and Abibiliometric and cluster Analysis	Misra S. C.		2024		Online Conference
488	OR2024	Exploring Sustainability in Patents using Natural Language Processing: An Application in Textile Sector	Padwekar K.; Misra S. C.		2024		Technical University of Munich, Germany

489	OR2024	Towards a Sustainable Agri-Food Supply Chain by Integrating Farm Management Decisions: Application of Hierarchical Reinforcement Learning	Padwekar K.; Misra S. C.		2024		Technical University of Munich, Germany
490	International Symposium on Business and Industrial Statistics	Statistical Arbitrage and Topological data Analysis	Majumdar S.; Laha A. K.		2024		Yogyakarta, Indonesia
491	2024 IMS International Conference on Statistics and Data Science (ICSDS)	Diffusions on the circle and a stochastic correlation model	Majumdar S.		2024		Nice, France
492	International Conference on Health Information Technology and Future Prospects - (ICHITFP-24)	Revolutionizing Phyigital Healthcare: The pioneering role of Information Systems in Driving Innovation	Ganji K.; Naskar S.		2024		Dammam, Saudi Arabia
493	International Conference VSSCM-2024 (Vietnam) Symposium in Supply Chain management	Enhancing Supply Chain Resilience: A study of Additive Manufacturing & Risk Mitigation Capabilities Through Grey Theory and Digraph Matrix Analysis	Naskar S.; Singh G.		2024		Hanoi, Vietnam
494	11th International Conference on Sustainability (SUSCON-XI)	Role of Digital Twins in Enhancing Sustainability and Resilience of Agrifood Supply Chains	Singh G.; Naskar S.		2024		IIM Shillong

495	POMS India International Conference 2024	Enhancing resilience and sustainability capabilities in food supply chains through digital twin technology	Naskar S.		2024		Ranchi
496	15th International Scientific Conference: Management of Technology- Step to Sustainable Production (MOTSP2024)	Technology or Organization: What is More Important For Artificial Intelligence Adoption	Pathak A.; Bansal V.		2024		Campus of University of Dubrovnik, Dubrovnik, Croatia
497	BAMS-ORSI 2024	Generative AI-enabled cloud platform adoption in SMEs: identifying determinants	Pathak A.; Bansal V.		2024		IIT Bombay
498	BAMS-ORSI 2024	Identifying Determinants for Generative AI-enabled Cloud Platform Adoption in SMEs	Pathak A.; Bansal V.		2024		IIT Bombay
499	ICMC-MICA-2024	Generative AI and Insurance: Critical Determinants for Adoption Intention	Pathak A.; Bansal V.		2024		Mudra Institute of Communications Ahmedabad,(MICA)
500	Behavioral Operations Conference 2024 (BOC 2024)	Prospect Theory and the Financially Constrained Newsvendor: An Experimental Analysis	Khan M. M.; Vipin B.		2024		University of Colorado, Boulder Country , USA
501	MSOM Conference 2024	Prospect Theory and the Capital-Constrained Newsvendor: An Experimental Study	Khan M. M.; Vipin B.		2024		University of Minnesota Country, USA

502	Univie : Summer School Behavioural Operations Research 2024	Balancing Risk and Inventory: An Experimental Analysis of Decision-Making in Financially Constrained Newsvenders	Khan M. M.; Vipin B.		2024		University of Vienna,Austria
503	Internatinal Conference on Emerging in Business Analytics and Management Science (BAMS-ORSI 2024)	The Emissions Dilemma in the Closed loop-acid Battery Supply Chain: Carbon Versus Lead	Sihag N.; Vipin B.		2024		IIT Bombay
504	Cybersecurity Resilience Conference	An Exploration of Phishing Intervention Effectiveness through the Information Processing -Habit Model	De S. J.		2025		IIM Nagpur
505	34th European Conference on Operational Research (EURO2025)	Minimizing Energy Consumption and Makespan for Unrelated Parallel Machines with Speed Scaling	Khanra A.		2025		University of Leeds, UK
506	Academy of Management's 58th Annual Meeting (AoM 2025)	The role of spirituality in remote workers' well-being and quiet quitting behaviours	Arora V.; Shukla A.		2025		Copenhagen, Denmark
507	American Academy of Management	Green Marketing Orientation Scale: Modification and Re-validation in the Ethiopian Context	Demessie G.; Shukla A.		2025		Chicago, USA
508	International Conference on Management , Engineering, Sciences and Humanities 2025 (MESH-2025)	When renting risk looms large: A community modle of rental luxury adoption	Kumar J.		2025		Bankok, Thailand, AIT, Bangkok

509	34th European Conference on Operational Research (EURO2025)	OEM's remanufacturing strategies under full and asymmetric Information on used Product collector's efficiency in a reverse supply chain	Kumar A.; Venaktaraman S. V.		2025		University of Leeds, UK
510	34th European Conference on Operational Research (EURO2025)	Effect of aggregations on market equilibrium and emission control in agriculture	Samal P.; Venaktaraman S. V.		2025		University of Leeds, UK
511	Presentation of Research Paper at LSO 2025 Conference	Solving Vehicle Routing Problem with Drones using Valid Inequalities	Hamid F.; Agarwal Y. K.		2025		IIT Roorkee
512	World Finance Conference Malta	Creditor Rights and Bank Liquidity Creation	Mulay H. R.; Ghosh A.; Seth R.		2025		Malta
513	Shark Tank at WFC Malta (Only 11 papers 600+ submissions selected)	Creditor Rights and Bank Liquidity Creation	Mulay H. R.; Ghosh A.; Seth R.		2025		Malta
514	Midwestern Economic Association Conference, USA	Impact of Economic Policy Uncertainty on financing infrastructure	Mulay H. R.; Tiwari P.; Seth R.		2025		Kansas USA
515	India Conference on Information Systems	Personalized Airline Itinerary Recommendation using Choice Modelling	Narayan P.; Chandrawacar A. S.; Prawesh S.		2025		IIM Calcutta
516	INDAM 2025 Conference (Indian Academician/researcher)	Waste Emissions and Climate Anomalies: Evidence from threshold indicators in Indian States	Bhattacharya P.; Prasad M.		2025		Kolkata
517	India Energy week 2025 , Delhi	Greening the grid: lessons from state level energy transition	Bhattacharya P.; Prasad M.		2025		Delhi

518	34th European Conference on Operational Research (EURO2025)	Life cycle assessment of ethanol from sugarcane in India: A comparative Analysis	Reddy D.; Prasad M.; Jindal R.		2025		University of Leeds, UK
519	India Energy Week 2025	Greening the electricity grid: Evidence from a comparative study of Indian states.	Bhattacharya P.; Prasad M.		2025		Dwarka, New Delhi.
520	National Seminar on Indian Diaspora: Paving the Path of Viksit Bharat by 2047	Leveraging the Indian Diaspora to Accelerate India's Energy Transition.	Bhattacharya P.; Prasad M.		2025		Jawaharlal Nehru University, New Delhi,
521	International Conference on Sustainable Business Practices (ICSBP 25)	How green electricity is driving regional energy transition: evidence from state level analysis in India.	Bhattacharya P.; Prasad M.		2025		International Management Institute Kolkata (IMI-K).
522	34th European Conference on Operational Research (EURO2025)	Coordinating Agricultural trade and production policies: A game-theoretic approach to global supply chain stability	Sharma S.; Sengupta R. N.		2025		University of Leeds, UK
523	4th International Marketing Conference - iMarc-IV	Like Parent, Like Child, Inter Generational Transfer of Money Attitudes, Risk Avoidance and investment Preferences	Kulshreshtha A.; Chatterjee D.		2025		IIM Shillong
524	21st Annual International Conference on Tourism	Does an Increase in Cost-of-Living at the Destination Impact International Tourism Flows and Accommodation Choices? A Panel Analysis	Chaturvedi S.; Chatterjee D.		2025		Athens, Greece

525	The GLOBAFA Conference	Does Financial Coping Strategies of Households Reflects Differences in Financial Resilience and Financial Worry? A Cross-country Analysis	Verma R.		2025		Mathias Corvinus Collegium, Budapest, Hungary
526	Conference on technology for Disable Persons (CTDP 2025)	A Real Time Dynamic Indian Sign Language Gesture Recognition system based on deep Learning	Bansal V.; Yadav A.		2025		IIM Ahamedabad

Department of Mechanical Engineering

527	SAE Technical Papers	Deep Learning-Based Digital Twining Models for Inter System Behavior and Health Assessment of Combat Aircraft Systems	Agrawal A.;Farid F.;Prabhu A.;Sudhakar V.;Vyas N.		2024		
528	Lecture Notes in Mechanical Engineering	Effects of the Bluff Body Shapes on the Stability Limit of Lean Premixed CNG-Air Swirl Flames	Huda N.;Yadav K.;Soni S.;De S.		2025	535-544	
529	FMFP 2024	Evaporative Crystallization of Sodium sulfate Droplets on Hydrophobic surfaces	Narendra Ch. Kumar and Virkeshwar Kumar		2024		
530	FMFP 2024	Numerical simulation of millimetric drop impact on micro-pillared surface	C Ramgopal, K. Muralidhar, and Virkeshwar Kumar		2024		

531	Active and Passive Smart Structures and Integrated Systems XVIII	Enhancing actuation frequency of shape memory alloy-based system with a novel evaporative cooling technique for fast cyclic applications	Kanhaiya Lal Chaurasiya, Navya Gupta, Fahad Javeed, Virkeshwar Kumar, and Bishakh Bhattacharya		2024		
532	Turbo Expo: Power for Land, Sea, and Air	Influence of Varying Freestream Turbulence on Flow Transition Over Distributed Surface Roughness	I. Jain, S. Katiyar, and S. Sarkar		2024		
533	Turbo Expo: Power for Land, Sea, and Air	Mitigation of Laminar Separation Bubble Through Leading-Edge Modification of an Aerofoil with Herringbone Riblet	R. Kumar,P. Singh, and S. Sarkar		2024		
534	Bulletin of the American Physical Society	Impact of Rib Spacing on Secondary Flows and Near-Wall Turbulence in Channel Flow: Insights from Large Eddy Simulation (LES)	J. R. Kushwaha, G. Biswas and S. Sarkar, S.		2024		
535	Lecture Notes in Mechanical Engineering, Springer	The Effect of Riblet Shapes on Flow Characteristics	I. Jain, I. Wajih, and S. Sarkar, S.		2024		
536	Lecture Notes in Mechanical Engineering, Springer	Transition of the Boundary Layer Subjected to Freestream Turbulence	R. Kumar and S. Sarkar		2024		
537	Lecture Notes in Mechanical Engineering, Springer	Control of Flow Separation Using Hemispherical Protuberance on the Leading Edge	P. Singh, R. Kumar, and S. Sarkar		2024		

538	Minerals, Metals and Materials Series	Solar Convective Furnace: System Dynamics and Operations Strategy	Kumar V.D.;Chandra L.;Shekhar R.		2025	131-139	
539	REWAS 2025, The Minerals, Metals and Materials Series	Metal Extraction Informatics: A Conceptual Framework for Sustainable Metal Extraction	Avijit Khanra, Arunabh Meshram, Yogesh Katariya, Siddhant Shikhar Gupta, Kali Sanjay, Rajiv Shekhar		2025	317-326	
Department of Physics							
540	Journal of Physics: Conference Series	A novel cryogenic acoustic microscope to evaluate electronic components	Bond, LJ;Barnard, D;Doran, S;Edayath, S;Feng, Y;Krennrich, F;Poonthottathil, N;Weinstein, A		2024		
541	OptoIn 2024, XLVII OSI symposium	Light-based experimental method to estimate the large groove depth of 1D sub-wavelength polymeric phase gratings	De D.; Vijaya R.		2024		Chandigarh
542	OptoIn 2024, XLVII OSI symposium	Optimized 1D and 2D Plasmonic Metagratings to Detect Micromolar Levels of Viral Load in Solutions	Biswas V.; Vijaya R.		2024		Chandigarh
543	Transfer of Technology conference	Multifunctional millimeter lens array for medical applications	Joshi G; Vijaya R.		2024		Chandigarh
544	Photonics 2024	Multifunctional millimeter lens array for visible range	Joshi G; Vijaya R.		2024		Kharagpur

545	Photonics 2024	Complementary nano-patterns on flexible dielectric metasurfaces for effective reduction of specular reflection	Biswas V.; Vijaya R.		2024		Kharagpur
546	8th Annual Conference of the Division of Plasma Physics of the Association of Asia Pacific Physical Society (AAPPS-DPP 2024)	Thermodynamics of magnetized plasma through experimental observations : superadiabaticity, entropy and energy content	Sudeep Bhattacharjee		2024		Malacca, Malaysia.
547	8th Annual Conference of the Division of Plasma Physics of the Association of Asia Pacific Physical Society (AAPPS-DPP 2024)	"Generation of high-intensity nano ion beams using plasma sheath nonlinearity and micro-glass capillary guiding" (Invited Talk)	Sushanta Barman and Sudeep Bhattacharjee,		2024		Malacca, Malaysia.
548	8th Annual Conference of the Division of Plasma Physics of the Association of Asia Pacific Physical Society (AAPPS-DPP 2024)	"Investigating cryoplasmas through molecular dynamics simulations" (Invited Talk),	Swati Swagatika Mishra, Sudeep Bhattacharjee, and Pascal Brault		2024		Malacca, Malaysia.
549	8th Annual Conference of the Division of Plasma Physics of the Association of Asia Pacific Physical Society (AAPPS-DPP 2024),	"Characterization of electric field fluctuations and turbulence under different flow modes in a cold micro-plasma jet" (Invited talk)	Deepika Behmani, Pawan K. Karn, Debopam Das, and Sudeep Bhattacharjee		2024		Malacca, Malaysia.
550	41st International Symposium on Lattice Field Theory (Lattice 2024)	Eigenspectra of Minimally Doubled Fermions	Abhijeet Kishore, Subhasish Basak, Dipankar Chakrabarti	355	2024		Liverpool, UK
551	41st International Symposium on Lattice Field Theory (Lattice 2024)	Chiral Lagrangian for Karsten-Wilczek Minimally Doubled Fermion,	Kunal Shukre, Dipankar Chakrabarti, Subhasish Basak	357	2025		Liverpool, UK

552	31st International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS2024),	Proton gluonic distributions in a light front spectator model,	P. Choudhary, D. Chakrabarti, B. Gurjar, T. Maji, C. Mondal and A. Mukherjee,	226	2024		Grenoble, France
553	41st International Symposium on Lattice Field Theory (Lattice 2024)	Improvement of Heatbath Algorithm in LFT using Generative models,	A. Faraz, A. Singha, D. Chakrabarti, S. Nakajima and V. Arora	36	2024		Liverpool, UK, 2024
554	Device Research Conference (DRC)	Hybrid FETs Based on Monolayer ZrI2 for Energy-Efficient Logic Applications	Ateeb Naseer, Keshari Nandan, Amit Agarwal, Somnath Bhowmick, Yogesh S Chauhan		2024	1-2	College Park, MD, USA

JOURNAL ARTICLES 2024-2025

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S. No.	Journal Name	Title of the Paper/Publication	Authors	Volume	Year	Page numbers (Start to End)	
1	Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment	Performance analysis of a horizontal axis current turbine blade section with inserted tube	Kundu P.;De A.	238	2024	640-655	
2	International Journal of Turbo and Jet Engines	Assessment of performance degradation of a mixed flow low bypass turbofan engine through GasTurb simulation	Rath N.;Mishra R.K.;Kushari A.	41	2024	407-419	
3	npj Computational Materials	Atomistic simulation assisted error-inclusive Bayesian machine learning for probabilistically unraveling the mechanical properties of solidified metals	Mahata A.;Mukhopadhyay T.;Chakraborty S.;Asle Zaeem M.	10	2024		

4	Journal of Aerospace Engineering	Nonlinear Stability of Curved Multiphase Composite Panels: Influence of Agglomeration in Randomly Distributed Carbon Nanotubes with Nonuniform In-Plane Loads	Chakraborty S.;Naskar S.;Dey T.;Kumar R.;Mukhopadhyay T.	37	2024		
5	International Journal of Plasticity	Micro-mechanisms of anisotropic deformation in the presence of notch in commercially pure Titanium: An in-situ study with CPFEM simulations	Sahu V.K.;Chakraborty P.;Yadava M.;Gurao N.P.	177	2024		
6	European Journal of Mechanics, B/Fluids	Characterization and low-order representation of the vortex meandering motion in upswept afterbody wakes	Ranjan R.;Robinet J.C.;Gaitonde D.	106	2024	166-180	
7	Shock Waves	Effect of initial conditions on the inhibition process of H ₂ –O ₂ /air detonations using CF ₃ I, CO ₂ , and H ₂ O	Dahake A.;Singh R.K.;Singh A.V.	34	2024	167-180	
8	Shock Waves	Detonation inhibition using retardant weight analysis for halogenated compounds	Singh R.K.;Dahake A.;Singh A.V.	34	2024	155-165	
9	Fuel	Atomization behavior of burning stable emulsion droplets	Priyadarshini S.;Kushari A.;Rao D.C.K.	371	2024		

10	Measurement Science and Technology	Development of a new class of temperature-sensitive paints operating in the green spectrum of light for aerodynamic flow applications	Singh Chandrasekaran K.;Mariappan S.;Das D.;Singh A.	35	2024		
11	Engineering Fracture Mechanics	Automated crack extension measurement method for fracture and fatigue analysis using digital image correlation	Chandra V.;Chakraborty P.	305	2024		
12	Energy and Fuels	Cobalt Promotion and Ni+Co Loading Effects of γ -Al ₂ O ₃ -Supported Ni-Co Catalysts for the Flue Gas Reforming of Methane	Gupta S.;Tiwari S.;Arghode V.K.;Deo G.	38	2024	11022-11036	
13	Physics of Fluids	Investigation of injector-coupled combustion dynamics in a methane-oxygen combustor using large eddy simulation and dynamic mode decomposition	Sharma A.;De A.;Kumar S.	36	2024		
14	Physics of Fluids	Optimization study of a Z-type airflow cooling system of a lithium-ion battery pack	Argade S.;De A.	36	2024		
15	Journal of Fluid Flow, Heat and Mass Transfer	A Computational Investigation of Mist Film Cooling Efficiency Using Novel Trench-Shaped Holes	Verma A.;Mishra D.P.	11	2024	197-209	

16	International Journal of Hydrogen Energy	Evaluating the effect of ignition energy on gaseous hydrogen–oxygen detonations	Singh R.K.;Dahake A.;Yadav C.K.;Singh A.V.	80	2024	322-331	
17	Machine Learning: Science and Technology	Explainable machine learning assisted molecular-level insights for enhanced specific stiffness exploiting the large compositional space of AlCoCrFeNi high entropy alloys	Gupta K.K.;Barman S.;Dey S.;Mukhopadhyay T.	5	2024		
18	Experiments in Fluids	Insights into bubble–droplet interactions in high-viscoelastic evaporating polymer droplets	Raghuram G.K.S.;Roy D.;Rao D.C.K.;Kumar A.;Basu S.	65	2024		
19	Scientific Reports	On exploiting nonparametric kernel-based probabilistic machine learning over the large compositional space of high entropy alloys for optimal nanoscale ballistics	Gupta K.K.;Barman S.;Dey S.;Naskar S.;Mukhopadhyay T.	14	2024		
20	Thin-Walled Structures	Constitutive behavior of asymmetric multi-material honeycombs with bi-level variably-thickened composite architecture	Awasthi M.;Naskar S.;Singh A.;Mukhopadhyay T.	203	2024		
21	Materials Today Communications	Investigating the spall phenomena in glass filler embedded epoxy composites using laser-induced stress wave	Singh S.S.;Kitey R.	40	2024		

22	Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences	Active mechanical cloaking for unsupervised damage resilience in programmable elastic metamaterials	Kundu D.;Naskar S.;Mukhopadhyay T.	382	2024		
23	Journal of Energy Storage	Quick charging adsorption-based thermal energy storage system	Vyas A.K.;Pahinkar D.G.;Arghode V.K.	98	2024		
24	International Journal of Multiphase Flow	Drop breakup in bag regime under the impulsive condition	Kumar S.;Sudama ;Tripathi S.N.;Kumar S.	181	2024		
25	International Journal of Fatigue	Assessing the influence of image capture frequency and asynchronicity on the accuracy of digital image correlation for fatigue analysis	Chandra V.;Chakraborty P.	189	2024		
26	Aerospace Science and Technology	Controller design and remote piloting training module development for unmanned cropped delta reflex wing configuration	Goswami S.;Kishore G.;Kumar N.;Saderla S.	153	2024		
27	International Communications in Heat and Mass Transfer	Evaluation of bubble column dehumidifier using magnesium chloride desiccant	Sharma K.;Pahinkar D.G.;Arghode V.K.	159	2024		
28	2D Materials	Multiscale computational modeling techniques in study and design of 2D materials: recent advances, challenges, and opportunities	Asle Zaeem M.;Thomas S.;Kavousi S.;Zhang N.;Mukhopadhyay T.;Mahata A.	11	2024		

29	Industrial Crops and Products	A green light-weight material for packaging and impact resistant structures	Maurya D.K.;Upadhyay C.S.;Kumari P.	216	2024		
30	Environment Conservation Journal	Polymer precursor method for the synthesis of zinc oxide nanoparticles: A novel approach	Kumar R.;Bhoj G.S.;Arya M.C.;Karmakar R.;Sharma P.K.;Tripathi V.	25	2024	710-716	
31	Physics of Fluids	Vortex-induced vibration of a circular cylinder in the supercritical regime	Sahu T.R.;Chopra G.;Mittal S.	36	2024		
32	Engineering Applications of Artificial Intelligence	Learning thermoacoustic interactions in combustors using a physics-informed neural network	Mariappan S.;Nath K.;Em Karniadakis G.	138	2024		
33	Physics of Fluids	Flow dynamics of the transversely oscillating tapered circular cylinder under vortex-induced vibrations at low Reynolds number	Verma M.;De A.	36	2024		
34	AIAA Journal	More General Wall Pressure Spectra Models: Combining Feature Engineering with Evolutionary Algorithms	Shubham S.;Sandberg R.D.;Kushari A.	62	2024	2622-2637	
35	Physics of Fluids	The effect of aspect ratio and mass ratio on the flow-induced flutter of a thin flexible sheet	Kumar D.;Poddar K.;Kumar S.	36	2024		

36	Physics of Fluids	Effects of confinement, impinging shock deflection angle, and Mach number on the flow field of a supersonic open cavity	Bhaduri S.;Sugarno M.I.;De A.	36	2024		
37	Physics of Fluids	An experimental and numerical study on the behavior of finite-length column vortex	Das S.;Yadav D.;Gupta A.K.;Das D.;De A.	36	2024		
38	Physics of Fluids	Evaporation of stable microemulsion droplets	Krishan B.;Rastogi P.;Rao D.C.K.;Kaisare N.S.;Basavaraj M.G.;Basu S.	36	2024		
39	Physics of Fluids	On the unsteady flow dynamics of a planar-plug nozzle with a semi-extended cowl	Bharathwaj M.;Krishna T.V.;Nanda S.R.;Karthick S.K.;Sugarno M.I.	36	2024		
40	Journal of Fluid Mechanics	Classifications and scaling of generic shaped, steady and unsteady water bells formed by a jet impinging onto a vial	Mohd J.;Yadav A.;Das D.	999	2024		
41	Journal of Thermal Science and Engineering Applications	Insights into the Role of Anti-Counter Rotating Vortices on Film Cooling Efficiency	Verma A.;Mishra D.P.	16	2024		
42	Journal of Spacecraft and Rockets	Effect of Leading Edge Bluntness on Shock Wave Boundary layer interaction in a Scramjet intake	Talluri Vamsi Krishna, Jithin Sreekumar, Mohammed Ibrahim Sugarno and Desikan. S. L. N	61	2024	1475-1486	

43	Journal of Spacecraft and Rockets	Experimental observation on film cooling effectiveness on aerodynamic heating in hypersonic flows	Jithin Sreekumar, Talluri Vamsi Krishna, Honhar Gupta and Mohammed Ibrahim Sugarno	62	2024	129-136	
44	International Journal of Non-Linear Mechanics	Nonlinear elasticity tailoring and failure mode manipulation of functionally graded honeycombs under large deformation	Ghuku S.;Sahoo S.;Mukhopadhyay T.	168	2025		
45	Engineering with Computers	Elementary-level intrusive coupling of machine learning for efficient mechanical analysis of variable stiffness composite laminates: a spatially-adaptive fidelity-sensitive computational framework	Garg A.;Naskar S.;Mukhopadhyay T.		2025		
46	Physics of Fluids	Study of auto-igniting spray flame in vitiated swirling hot coflow using flamelet generated model	Alam Z.;Bhatia B.;De A.	37	2025		
47	Journal of Fluid Mechanics	Twisted finite wing at low Reynolds number: cellular vortex shedding, wing-tip vortex and aerodynamic performance	Pandi J.S.S.;Mittal S.	1002	2025		

48	Journal of Thermal Engineering	Numerical investigation of hydrothermal performances of minichannel heat sink using porous media	KUMAR R.;ZUNAID M.;MISHRA R.S.	11	2025	141-158	
49	Composite Structures	Uncertainty quantification of residual strength post lightning strike: A coupled stochastic thermal–electrical–mechanical simulation framework for composite laminates	Chahar R.S.;Mukhopadhyay T.	357	2025		
50	Physics of Fluids	Impact of fuel injection temperature dynamics on the stability of liquid oxygen-methane supercritical combustion	Sharma A.;De A.;Sunil Kumar S.	37	2025		
51	Physical Review Fluids	Impact of a water drop on a water bed of varying depth	Naidu S R.;Poddar K.;Kumar S.	10	2025		
52	Mechanics of Advanced Materials and Structures	A multiscale damage-inelasticity model for unidirectional composites using micromechanics-based virtual testing	Yenike S.C.M.;Upadhyay C.S.		2025		
53	Meccanica	A nonlinear iterative approach to predict large deflections of a novel spring-loaded ornithopter wing	Bhowmik J.;Palika S.;Das D.		2025		

54	Journal of Fluids Engineering	Numerical Investigation of Unsteady Flow Characteristics of Planar Plug Nozzle in Over-Expanded Conditions	Rahul Trivedi, Sreejita Bhaduri, Mohammed Ibrahim Sugarno and Ashoke De	147	2025		
55	Polymer Composites	Fracture characteristics of short fiber-toughened matrix laminates	Singh M.K.;Kitey R.		2025		
56	Experimental Mechanics	A Combined Physical and Virtual Digital Image Correlation Technique for Calibration and Validation of Elasto-Plastic-Damage Models	Chandra V., Gurao N. P., Chakraborty P.		2024		
57	Sadhana	Numerical prediction of largely separated flows in low-pressure turbine blades with high loading	Sharma K.; Ranjan R.	49	2024		
58	Journal of Fluid Mechanics	Parametric study and scaling of a minijet-manipulated supersonic jet	Changhao Tan, Arun Kumar Perumal, Yu Zhou	1001	2024		
59	Computational Thermal Sciences	Primary Breakup instability of Liquid Jet in Cross Flow	<u>B. Bhatia, T. Johnny, A. De</u>	16	2024	15-31	
60	Ocean Engineering	Hydrodynamic performance enhancement of Savonius hydrokinetic turbine using wedge-shaped triangular deflector in conjunction with circular deflector	<u>O. Singh, G. Saini, A. De</u>	292	2024	116572	

61	International Journal of Green Energy	<u>Attention based Transformer coupled with convoluted neural network for ultra-short-and short-term forecasting of multiple wind farms</u>	<u>S. Mulewa, A. M Parmar, A. De</u>	21	2024	1238-1252	
62	International Journal of Green Energy	A novel Bagged-CNN architecture for short-term wind power forecasting	<u>S. Mulewa, A. M Parmar, A. De</u>	21	2024	2712-2723	
63	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	Enhancing hydrodynamic efficiency of Savonius hydrokinetic turbine through circular deflector flow augmentation	<u>O. Singh, G. Saini, A. De</u>	46	2024	3432-3453	
64	Frontiers in Mechanical Engineering	<u>Flow control in a confined supersonic cavity flow using subcavity</u>	<u>S. Bhaduri, A. Ray, A. De, M. I. Sugarno</u>	10	2024		
65	European Journal of Mechanics-B/Fluids	<u>Investigation of turbulent high-speed flow over the double wedge at varying aft-wedge deflections</u>	<u>A. A. Ray, A. De</u>	111	2025	20-41	
Department of Biological Sciences and Bioengineering							
66	Nature Communications	Structure-guided engineering of biased-agonism in the human niacin receptor via single amino acid substitution	Yadav M.K.;Sarma P.;Maharana J.;Ganguly M.;Mishra S.;Zaidi N.;Dalal A.;Singh V.;Saha S.;Mahajan G.;Sharma S.;Chami M.;Banerjee R.;Shukla A.K.	15	2024		

67	BMC Cancer	Regulation of metastatic potential by drug repurposing and mitochondrial targeting in colorectal cancer cells	Mathur S.;Srivastava P.;Srivastava A.;Rai N.K.;Abbas S.;kumar A.;Tiwari M.;Sharma L.K.	24	2024		
68	Neuroscience Research	Retinal vascular pathology in a mouse model of Lafora progressive myoclonus epilepsy	Patil R.P.;Kumar N.;Kaur A.;Munian R.K.;Bhattacharya B.;Ganesh S.;Parihar R.	204	2024	58-63	
69	Biofabrication	Polyhydroxybutyrate-based osteoinductive mineralized electrospun structures that mimic components and tissue interfaces of the osteon for bone tissue engineering	Sriram M.;Priya S.;Katti D.S.	16	2024		
70	BMC Nephrology	Heavy metal association with chronic kidney disease of unknown cause in central India-results from a case-control study	Atlani M.;Kumar A.;Ahirwar R.;Meenu M.N.;Goel S.K.;Kumari R.;Anirudhan A.;Vallamshetla S.;Reddy G.S.T.	25	2024		
71	Environmental Research	Remediation of pharmacophoric laboratory waste by using biodegradable carbon nanoparticles of bacterial biofilm origin	Savadiya B.;Pandey G.;Misra S.K.	252	2024		

72	Nanomaterials	Fluoride Removal Using Nanofiltration-Ranged Polyamide Thin-Film Nanocomposite Membrane Incorporated Titanium Oxide Nanosheets	Ali F.A.A.;Alam J.;Qaid S.M.H.;Shukla A.K.;Al-Fatesh A.S.;Alghamdi A.M.;Fadhilah F.;Osman A.I.;Alhoshan M.	14	2024		
73	Thrombosis Research	AAV mediated genome engineering with a bypass coagulation factor alleviates the bleeding phenotype in a murine model of hemophilia B	Sarangi P.;Kumar N.;Sambasivan R.;Ramalingam S.;Amit S.;Chandra D.;Jayandharan G.R.	238	2024	151-160	
74	Biofabrication	Functionally graded hydrogels with opposing biochemical cues for osteochondral tissue engineering	Mahajan A.;Zaidi Z.S.;Shukla A.;Saxena R.;Katti D.S.	16	2024		
75	Journal of Drug Delivery Science and Technology	Thermoresponsive polymer encapsulated HT1080 exosomes lyse localized blood clot: A preclinical evaluation in rat carotid artery thrombosis model	Das A.;Nikhil A.;Yadav B.;Jagavelu K.;Kumar A.	98	2024		
76	Journal of Cellular and Molecular Medicine	AAV mediated repression of Neat1 lncRNA combined with F8 gene augmentation mitigates pathological mediators of joint disease in haemophilia	Sarangi P.;Senthilkumar M.B.;Amit S.;Kumar N.;Jayandharan G.R.	28	2024		

77	Non-coding RNA Research	miRNA genetic variations associated with the predisposition of oral squamous cell carcinoma in central Indian population	Tiwari S.;Pandey R.;Kumar V.;Das S.;Gupta V.;Nema R.;Kumar A.	9	2024	1333-1341	
78	ACS Omega	Development of an Optimized Promoter System for Exosomal and Naked AAV Vector-Based Suicide Gene Therapy in Hepatocellular Carcinoma	Singh V.;Pathak S.;Kumar N.;Jayandharan G.R.	9	2024	30945-30953	
79	International Journal of Biological Macromolecules	3D-printed cellulose nanocrystals and gelatin scaffolds with bioactive cues for regenerative medicine: Advancing biomedical applications	Singh P.;Baniyadi H.;Gupta S.;Ghosh R.;Shaikh S.;Seppälä J.;Kumar A.	278	2024		
80	Journal of Materials Chemistry B	Fabrication and characterization of calcium peroxide and berberine loaded cryogels for enhanced wound healing	Dar L.A.;Manzoor T.;Shafi S.;Kumar A.;Ahmad S.M.	12	2024	8431-8443	
81	Proceedings of the National Academy of Sciences of the United States of America	Hippo effector, Yorkie, is a tumor suppressor in select Drosophila squamous epithelia	Bhattacharya R.;Kumari J.;Banerjee S.;Tripathi J.;Parihar S.S.;Mohan N.;Sinha P.	121	2024		

82	Journal of Drug Delivery Science and Technology	Unlocking the future of osteoarthritis: Material engineering and drug delivery confluence for advanced therapeutic approaches	Kumar B.;Jha L.A.;Pandey P.;Iqbal S.F.;Thaleshwari S.;Banerjee K.;Imran M.;Anwaar S.;Subedi L.;Dubey V.;Mohammed Y.;Panth N.;Hansbro P.M.;Paudel K.R.;Jha S.K.;Bandyopadhyay A.	101	2024		
83	Disease models & mechanisms	Neuromuscular junction dysfunction in Lafora disease	Shukla M.;Chugh D.;Ganesh S.	17	2024		
84	Microchemical Journal	Cu-Ag nanoparticles-dispersed and microchannel textured-laser induced graphene: A chemiresistive aptasensor for thrombin	Gupta R.;Santra T.;Misra S.K.;Verma N.	207	2024		
85	Scientific reports	Circulating thrombospondin 2 as a predictor of hepatocellular carcinoma in hepatitis B patients undergoing nucleos(t)ide analog therapy	Okumura T.;Kimura T.;Ichikawa Y.;Iwadare T.;Wakabayashi S.I.;Kobayashi H.;Yamashita Y.;Uchida T.;Pydi S.P.;Tanaka N.;Umemura T.	14	2024	25584	

86	ACS Applied Biomaterials	Asymmetric Janus nanofibrous Agar-based Wound Dressing Infused with Enhanced Antioxidant and Antibacterial Properties	1. Kalpana Rathore, Dhiraj Upadhyay, Noopur Verma, Ajay Kumar Gupta, Saravanan Matheshwaran, Sandeep Sharma, Vivek Verma		2024		
87	BBRC	Biochemical and steady-state kinetic analyses of arsenate reductases from an arsenic-tolerant strain of <i>Citrobacter youngae</i> IITK SM2	2. Verma, Hariharan Vedi Chinnasamy, Bhumika Biswas, Abhas Singh, Saravanan Matheshwaran		2024		
88	Royal Society Open Science	Deciphering the Influence of NaCl on Social Behaviours of <i>Bacillus subtilis</i> .	3. Prem Anand Murugan, Muktesh Kumar Sahu, Manish Kumar Gupta, T. Sabari Sankar, Sivasurender Chandran, and Saravanan Matheshwaran		2024		
89	Journal of Biological Chemistry	Anti-mutagenic agent targeting LexA to combat antimicrobial resistance in mycobacteria	4. Chitral Chatterjee, Gokul Raj Mohan, V C Hariharan, Bhumika Biswas, Vidya Sundaram, Ashutosh Srivastava, Saravanan Matheshwaran		2024		
90	Phys. Rev. E	Enhanced Activity Reduces the Duration of Intermittent Lévy Walks in Bacterial Turbulence.	5. S. Dhananjay, M Hemlata, Saravanan Matheshwaran and Sivasurender Chandran		2024		

91	Adv Healthc Mater.	Pyridine-2,6-Dicarboxamide Proligands and their Cu(II)/Zn(II) Complexes Targeting Staphylococcus aureus for the Attenuation of In Vivo Dental Biofilm.	6. Rajal Chaudhary, Bhumika Agrahari, Bhumika Biswas, Sidharth Chopra, Santosh Misra, Saravanan Matheshwaran, Ritika Gautam Singh		2024		
92	Protein Science	Self-contacting Cys, Ser, and Thr residues in high-resolution protein crystal structures: Tertiary constraints or hydrogen bonds?	Singh P.;Ramanathan V.;Sankararamakrishnan R.	33	2024		
93	Journal of Functional Biomaterials	Innovative Strategies and Methodologies in Antimicrobial Peptide Design	Verma D.P.;Tripathi A.K.;Thakur A.K.	15	2024		
94	Indian Journal of Surgery	Gastro-intestinal Surgery and Its Subspeciality: Present Status and Future in Indian Subcontinent	Kumar A.;Sarangi Y.		2025		
95	World Journal of Gastrointestinal Oncology	Clinicopathological and radiological characteristics and prediction of survival in colon cancer	Kumar A.;Kaw P.	17	2025		
96	Indian Journal of Surgery	Chronic Constipation: Patient Characteristics, Indications, and Outcome of Surgery—An Indian Study	Budhwani R.;Kumar A.;Sarangi Y.		2025		

97	Molecular Pharmaceutics	Nitroaromatic Compounds Dictate Electrochemical Properties of Escherichia coli by Manipulating the Cellular Membrane	Yadav N.;Misra S.K.	22	2025	1707-1724	
98	Organic and Biomolecular Chemistry	Disruption of fibrillar assemblies of L-phenylalanine using polyphenol-passivated nanocarbon as a potential therapeutic strategy against phenylketonuria	Chatterjee S.;Kumar K.;Kumar P.;Thakur A.K.;Misra S.K.	23	2025	2620-2624	
99	Biology Open	Glycogen synthase is required for heat shock-mediated autophagy induction in neuronal cells	Bhadauriya P.;Onkar A.;Nagarajan K.;Karuppusamy K.A.;Ganesh S.;Agarwal S.	14	2025		
100	Cancer biomarkers : section A of Disease markers	BUB1, miR-495-3p, and E2F1/E2F8 axis is associated with poor prognosis of breast cancer patients and infiltration of Th2 cells in the tumor microenvironment	Nema R.;Kumar A.	42	2025		
101	Molecular Neurobiology	Inactivation of Laforin Phosphatase and Increased Glucose Uptake Underlie Glycogen Synthase-Mediated Neuronal Survival Under Oxidative Stress	Onkar A.;Sheshadri D.;Nagarajan K.;Ganesh S.		2025		

102	iScience	An integrative proteomics approach identifies tyrosine kinase KIT as a therapeutic target for SPINK1-positive prostate cancer	Manzar N, Khan UK, Goel A, Carskadon S, Gupta N, Palanisamy N, Ateeq B	4;27(3)	2024	108794	
103	Biomaterials Science	A bacterial cellulose-polydopamine based injectable hydrogel for enhanced hemostasis in acute wounds	Kaushal R. Shakya, Niranjana Chatterjee, Santosh K. Misra, Vivek Verma		2025		
104	ACS Omega	Intrinsically Antibacterial Carbon Nanoparticles Optimally Entangle into Polymeric Film to Produce Composite Packaging	Neha Yadav, Debmalaya Roy and Santosh K. Misra	9, 45,	2024	45104-45116	
105	Langmuir	Suitably Incorporated Hydrophobic, Redox-Active Drug in Poly Lactic Acid-Graphene Nanoplatelet Composite Generates 3DPrinted Medicinal Patch for Electrostimulatory Therapeutics	Sandarbh Kumar, Niranjana Chatterjee, and Santosh Kumar Misra	40	2024	11858-11872	

106	iScience	Redox Modulator Iron Complexes Trigger Intrinsic Apoptosis Pathway in Cancer Cells	Sai Kumari Vechalapu, Rakesh Kumar, Niranjana Chatterjee, Sikha Gupta, Shweta Khanna, Pooja Yedehalli Thimmappa, Sathyapriya Senthil, Raju Eerlapally, Manjunath B Joshi, Santosh K Misra*, Apparao* Draksharapu, Dharmaraja Allimuthu	27,6	2024	109899	
107	Nanoscale	In situ carbonization metamorphoses porous silica particles into biodegradable therapeutic carriers of lesser consequence on TGF- β 1 mediated fibrosis	Akanksha Dohare ¹ , Niranjana Chatterjee ¹ and Santosh K. Misra	16	2024	8843-8850	
108	Stem Cell Research	Generation of two induced pluripotent stem cell lines (LVPEi004-A and LVPEi005-A) from probands with Leber Congenital Amaurosis 2 (LCA2) and harboring mutations in RPE65	Maddileti S, Mahato S, Agrawal T, Dave VP, Naik M, Ali MJ, Kannabiran C, Jalali S, Jayandharan GR	77	2024	103413	

109	Cancer Gene Therapy	AAV-mediated combination gene therapy of inducible Caspase 9 and miR-199a-5p is therapeutic in hepatocellular carcinoma	Pathak S, Singh V, Kumar N, Jayandharan GR	31	2024	1796-1803	
110	Biomaterials	Exosomal miRNA combined with anti-inflammatory hyaluronic acid-based 3D bioprinted hepatic patch promotes metabolic reprogramming in NAFLD-mediated fibrosis	Saha, T., Mehrotra, S., Gupta, P., & Kumar, A.	318	2025	123140	
111	Archives of Toxicology	Establishment of a human 3D in vitro liver-bone model as a potential system for drug toxicity screening	Chen, G., Xin, Y., Hammour, M. M., Braun, B., Ehnert, S., Springer, F., Vosough, M., Menger, M., Kumar, A., Nuessler, A., Aspera-Werz, R. H.	99	2024	333-356	
112	ACS Infectious Diseases	Local Delivery of Exosomes and Antibiotics in Hydroxyapatite-Based Nanocement for Osteomyelitis Management	Gupta, S., Qayoom, I., Mairal, A., Singh, S., & Kumar, A.	10	2024	3994-4008	
113	ACS Applied Materials & Interfaces	Osteoinductive Strontium-substituted Nanohydroxyapatite Containing Biodegradable 3D Printed Composite Scaffolds for Bone Regeneration	Shaikh, S., Mehrotra, S., Bochove, B. V., Teotia, A. K., Singh, P., Isabella, L., Lindfors, N. C., Seppälä, J., Kumar, A.	16	2024	65378-65393	

114	ACS Applied Biomaterials	Emerging technological advancement for chronic wound diagnosis and treatment	Ghosh, R., Singh, P., Hussain, P. A., Ubaid, T., Bibhas, B., Kumar, A.	7	2024	7101-7132	
115	ACS Applied Materials & Interfaces	Treatment of goat knee osteochondral injuries and cartilage phenotype maintenance using multi-layered scaffold laden with chondrocyte exosomes	Nikhil, A., Gugjoo, M. B., Das, A., Manzoor, T., Andrabi, S. M., Ganai, N. A., Kumar, A.	16	2024	64505-64521	
116	International Journal of Pharmaceutics	Osteo-Modulatory Potential of Biologically Synthesized cis-Resveratrol Passivated Gold Nanoparticles	Gupta, A., Madhyastha, H., Kumar, A., Singh, S.	664	2024	124637	
117	Surfaces and Interfaces	Rapid surface modification of PEEK by ambient temperature sulfonation for high shelf-life biomedical applications	Pandey, M., Mairal, A., Gupta, H., Kumar, A., Bhattacharya, S.	54	2024	105117	
118	Advanced Health Care Materials	3D-Printed-Cryogel-Impregnated Functionalized Scaffold Augments Bone Regeneration in Critical Tibia Fracture in Goat	Nikhil, A., Gugjoo, M. B., Das, A., Ahmad, S. M., Kumar, A.	13	2024	2402619	

119	ACS Applied Materials & Interfaces	Reduced graphene oxide substituted nanohydroxyapatite: rejuvenating bone nerve cross talk with electrical cues in fragility fracture rat model under hyperglycaemia	Srivastava, E., Qayoom, I., Kumar, A.	16	2024	59738-59751	
120	Journal of Materials Chemistry B	Fabrication and characterization of calcium peroxide and berberine loaded cryogels for enhanced wound healing	Dar, L. A., Manzoor, T., Shafi, S., Kumar, A., Ahmad, S. M.	12	2024	8431	
121	International Journal of Biological Macromolecules	3D-printed cellulose nanocrystals and gelatin scaffolds with bioactive cues for regenerative medicine: Advancing biomedical applications	Singh, P., Baniasad, H., Gupta, S., Shaikh, S., Seppälä, J., Kumar, A.	278	2024	134402	
122	International Journal of Biological Macromolecules	A multifunctional self-healing hydrogel laden with M2-derived exosomes reshape microenvironment of diabetic wound and accelerate healing	Banerjee, A., Singh, P., Sheikh, P. A., Kumar, A., Koul, V., Bhattacharyya, J.	270	2024	132384	
123	Biomaterial Advances	Simultaneous regulation of AGE/RAGE signaling and MMP-9 expression by an immunomodulating hydrogel accelerates healing in diabetic wounds	Banerjee, A., Singh, P., Shiekh, P., Kumar, A., Koul, V., Bhattacharyya, J.	163	2024	213937	

124	Journal of Drug Delivery Science and Technology	Thermosensitive polymer encapsulated exosomes for preventing cerebrovascular disease: A preclinical evaluation in rat carotid artery thrombosis model	Das, A., Nikhil, A., Yadav, B., Jagavelu, K., Kumar, A.	98	2024	105828	
125	Materialia	Self-Healing Property of a Gel-Elastomer Two Phase Composite Material	Bhowmick, T., Saha, P., Srivastava, E., Kumar, A., Ghatak, A.	35	2024	102129	
126	Chemical Communications	Nitric oxide-releasing 6,9-disubstituted purines as potent anticancer agents against hepatocellular carcinoma	Bormon, R., Srivastava, E., Ali, R., Singh, P., Kumar, A., Verma, S.	60	2024	3527	
127	Chemical Engineering Journal	Preventing septic implant failures in osteoporotic hip fractures using antibiotic-loaded functionalized nanocement	Nikhil, A., Qayoom, I., Das, A., Kumar, A.	486	2024	149908	
128	Colloids and Surfaces B	Laser-assisted rapid synthesis of biomimetic nano-hydroxyapatite and its functionalization with bone active molecules for in-vivo ectopic bone regeneration	Shaikh, S., Gupta, S., Mishra, A., Shiekh, P., Singh, P., Kumar, A.	237	2024	113859	

129	ACS Applied Materials & Interfaces	Silane-modified Diopside-PCL Injection Moulded Biopolymer Ceramic Composite: A Potential Composition for Orthopedic Applications	Ghosh, R., Gupta, S., Mehrotra, S., Kumar, A.	16	2024	7670-7685	
130	Dalton Transactions	Cytotoxic Ruthenium (II) N ^N -donor Polypyridyl Complexes of Oxalate: Synthesis, Characterization, DNA and BSA Interactions and Anticancer Activity against HepG2 Cells	Sayala, J., Srivastava, E., Kumar, P., Shukla, N., Kumar, A., Patra, A. K.	53	2024	4580-4597	
131	ACS Biomaterial Science & Engineering	Antioxidant and trilayered electrospun small-diameter vascular grafts maintain patency and promote endothelialisation in rat femoral artery	Das, A., Aman, N., Kumar, A.	10	2024	1697–1711	
132	ACS Applied Materials & Interfaces	Hyaluronic acid conjugated thermoresponsive polymer-based bioformulation enhanced wound healing and gut barrier repair of TNBS-induced colitis injury ex-vivo model in a dynamic perfusion device	Mairal, A., Mehrotra, S., Kumar, A., Maiwal, R., Marshal, J., Kumar, A.	16	2024	5382-5400	

133	Bioactive Materials	Ameliorating impaired cardiac function in myocardial infarction using exosome-loaded gallic-acid-containing polyurethane scaffolds coated with decellularized extracellular matrix	Das, A., Nikhil, A., Shiekh, P. A., Yadav, B., Jagavelu, K., Kumar, A.	33	2024	324-340	
134	Developmental Biology	Interplay of canonical and LIMK mediated non-canonical BMP signaling is essential for regulating differential thickness and invagination during chick forebrain roof plate morphogenesis	Zaidi M.A.A., Kushwaha S., Udaykumar N., Dethe P., Sachdeva M. and Sen J	520	2025	125-134	
Department of Chemical Engineering							
135	Surfaces and Interfaces	Confinement induced alteration in interfacial energy in aqueous surfactant systems	N Singh, A Roy, A Ghatak	54	2024	105289	
136	ACS Applied Optical Materials	Water Induced Reversible Switching of Optical Transparency of an Elastomer-Hydrogel Based Two-Phase Composite	K Kuhar, A Ghatak	2	2024	1854-1864	
137	Materialia	Self-healing property of a gel-elastomer two-phase composite material	T Bhowmick, P Saha, E Srivastava, A Kumar, A Ghatak	35	2024	102129	

138	Langmuir	Enhancement of the Rate of Surface Reactions by the Elastocapillary Effect	N Singh, A Ghatak	40 (17)	2024	8771-8780	
139	Chemistry–An Asian Journal	Electrospun Mesoporous Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ - CNT - Hollow Carbon Ternary Composite Nanofibers as High Performance Electrodes for Advanced Symmetric Supercapacitors	V Sudheendra Budhiraju, V Runkana, A Sharma, S Sivakumar	20	2025	e202400815	
140	Antimicrobial Materials and Coatings	Antimicrobial gum: a bio-based nanocomposite	Garima Dhanda, Ayushi Manjhani, Naina Miglani, Shashi Ranjan, Aman Prakash, Apoorva Verma, Ashutosh Sharma, Ambika Rajendran, Ayyagari Ramlal		2025	45352	
141	ACS Applied Materials & Interfaces	Development of MXene Composite Nanofiber-Based 3D Culture System for the Efficient Generation of MSC-Derived Functional Pancreatic β -Cells	Suraj Kumar Singh, Mouchandra Paul, Anshuman Singh, Ashutosh Sharma, Manoj Kumar, Jalaj Gupta, Sri Sivakumar, Vinod Verma	16	2024	67514-67522	

142	ACS Applied Materials & Interfaces	Enhanced performance of laser-induced graphene supercapacitors via integration with candle-soot nanoparticles	Arnab Ghosh, Sukhman Kaur, Gulshan Verma, Christian Dolle, Raheleh Azmi, Stefan Heissler, Yolita M Eggeler, Kunal Mondal, Dario Mager, Ankur Gupta, Jan G Korvink, De-Yi Wang, Ashutosh Sharma, Monsur Islam	16	2024	41313-40325	
143	Nanotechnology	The prospect of supercapacitors in integrated energy harvesting and storage systems	S Prerna, S Ashutosh	35	2024	382001	
144	ACS Applied Materials & Interfaces	Electrochemical and Plasmonic Detection of Myocardial Infarction Using Microfluidic Biochip Incorporated with Mesoporous Nanoscaffolds	Nawab Singh, Ajeet Kaushik, Inayathullah Ghori, Prabhakar Rai, Liang Dong, Ashutosh Sharma, Bansi D Malhotra, Renu John	16	2024	32794-32811	
145	MedComm–Biomaterials and Applications	Carbon nanomaterials-based electrically conductive scaffolds for tissue engineering applications	Genevieve Abd, Raquel S Díaz, Anju Gupta, Tagbo HR Niepa, Kunal Mondal, Seeram Ramakrishna, Ashutosh Sharma, Andrés D Lantada, Monsur Islam	3	2024	e76	
146	Journal of colloid and interface science	PDMS nanoparticles-decorated PDMS substrate promotes adhesion, proliferation and differentiation of skin cells	Auhin Kumar Maparu, Prerana Singh, Beena Rai, Ashutosh Sharma, Sri Sivakumar	659	2024	629-638	

147	Physical Review Fluids	Electric field-dependent scaling law for overdamped (di) electrowetting and dewetting on dielectric	S Goel, R Gowda BT, DS Pillai	10	2025	14201	
148	Journal of The Electrochemical Society	Electrokinetics-Driven Anodic Oxide Pore Formation: Linear and Weakly Nonlinear Analysis	S Wankhede, DS Pillai	171	2024	112501	
149	Langmuir	Harnessing Polar Interactions Tunes the Stability of Ultrathin Polymer Solution Films	S Bhuyan, S Chandran, DS Pillai	40	2024	17699-17709	
150	Chaos: An Interdisciplinary Journal of Nonlinear Science	Nature of instability in flow-driven porous anodic oxide	S Wankhede, DS Pillai	34	2024		
151	ACS Polymers Au	Pattern Formation in Evaporating Polymer Solutions– Interplay between Dewetting and Decomposition	P Mahawar, M Praveena, S Bhuyan, DS Pillai, S Chandran	4	2024	302-310	
152	Applied Catalysis A: General	Benchmarking potential catalysts and choice of descriptor for CO ₂ methanation using transition metal based catalysts	R Kumar, P Athira, JK Prabhakar, SC Nayak, PA Apte, G Deo, K Ray	687	2024	119957	
153	The Journal of Physical Chemistry C	Density Functional Theory-Driven Microkinetic Modeling and Experimental Validation Reveal the Promotional Effect of Cobalt in Ni Catalysts during Oxidative Dry Reforming of Methane	AS Russel, PK Yadav, G Deo	128(34)	2024	14259-14272	

154	ChemistrySelect	Effect of Contact Time on Carbon Deposition and Catalytic Activity of Nickel Alumina Catalysts for Dry Reforming of Methane	S Charan Nayak, S Sengupta, G Deo	9	2024	e202304841	
155	Energy & Fuels	Cobalt Promotion and Ni+Co Loading Effects of γ -Al ₂ O ₃ -Supported Ni–Co Catalysts for the Flue Gas Reforming of Methane	S Gupta, S Tiwari, VK Arghode, G Deo	38	2024	11022-11036	
156	Fuel	Exploring optimal total metal loading of Ni ₃ Fe/Al ₂ O ₃ catalyst for CO ₂ methanation and its kinetic model	Jitendra Kumar Prabhakar, Pankaj A Apte, Goutam Deo	367	2024	131447	
157	Special Issue: Physics of the Cytoskeleton	Prediction of the essential intermolecular contacts for side-binding of VASP on F-actin	Fikret Aydin, Harshwardhan H. Katkar, Alisha Morganthaler, Alyssa J. Harker, David R. Kovar, Gregory A. Voth	88	2024	81	
158	Energy & Fuels	PET-Derived Carbon Quantum Dots as Nano Tracers for Sandstone Reservoirs	M Farooq, S Bind, H Singh, S Das, H Sharma	38	2024	23407-23421	
159	Surfaces and Interfaces	Computational insights into the adsorption of organic compounds on peptide surfaces	MV Jyothirmmai, JK Singh	56	2025	105624	

160	Macromolecules	Effect of Block Copolymer Concentration and Water–Ethanol Ratio on Phase Transitions of Pluronic Using Molecular Dynamics Simulations	M Bhendale, R Sharma, JK Singh	57	2024	11576-11585	
161	Wiley Interdisciplinary Reviews: Computational Molecular Science	Catalysis in the digital age: Unlocking the power of data with machine learning	BM Abraham, MV Jyothirmai, P Sinha, F Viñes, JK Singh, F Illas	14	2024	e1730	
162	Materials Chemistry and Physics	Machine learning driven advancements in catalysis for predicting hydrogen evolution reaction activity	P Sinha, MV Jyothirmai, BM Abraham, JK Singh		2024	129805	
163	ACS Applied Materials & Interfaces	Large Area Film of Highly Crystalline, Cleavable, and Transferable Semi-Conducting 2D-Imine Covalent Organic Framework on Dielectric Glass Substrate	D Srivastava, V Mishra, SH Mir, J Dey, JK Singh, M Chandra	16	2024	30485-30495	
164	International Communications in Heat and Mass Transfer	Passive control techniques for heat exchangers: Permeability-driven modulation of vortex shedding and heat transfer enhancement	Jamshed S.;Tiwari N.	162	2025		
165	European Journal of Mechanics - B/Fluids	Coating flow of a liquid film with colloidal particles on a vertical fiber	Garima Singh, Nav een Tiwari	109	2025	271-283	

166	Journal of Energy Storage	External magnetic field and heating reduce the mass transport overpotential in a liquid metal battery	Vishal Ranawade, Naveen Tiwari, and Kanwar Singh Nalwa	114	2025		
167	Journal of Energy Storage	A comprehensive multiphysics approach to model solutal buoyancy, thermal convection, and electro-vortex flow phenomena for liquid metal batteries	Vishal Ranawade, Naveen Tiwari, and Kanwar Singh Nalwa	85	2024		
168	Physica of Fluids	Computational study of a thin film flow over a topographical feature using phase-field lattice Boltzmann method	Garima Singh, Naveen Tiwari	36	2024		
169	Physical Review F	Stability of traveling waves of a thermoviscous liquid film down the outer surface of a cylinder	Garima Singh, Naveen Tiwari	9	2024		
170	Environmental Science: Nano	A Micro-Nano Formulation of Multi-Micronutrients- and Carbon Nanofiber-Modified Biochar for Enhanced Plant Growth	A Gupta, R Gupta, N Verma	12	2025	2076-2090	
171	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Activated Carbon Fabric-Supported Laser Induced Graphene-Based Super-Hydrophobic Membrane for Microfiltration of Water-in-Oil Emulsion	R Gupta, A Gupta, JK George, N Verma	709	2025	136085	

172	Electrochimica Acta	Selective Detection of Riboflavin Biomolecule via Electroreduction over Laser Induced Graphene-Anchored Iron Nanoparticles using Spectroelectrochemistry	D Chauhan, R Gupta, N Verma	513	2025	145603	
173	Industrial & Engineering Chemistry Research	Process Intensification for Enhanced Photocatalytic Degradation of Aqueous Paracetamol Using Coiled Flow Inverter	SS Tomar, N Verma, KDP Nigam	64	2025		
174	ACS Applied Engineering Materials	S-Scheme-Mediated NiCo ₂ S ₄ -P-g-C ₃ N ₄ Heterojunction for Selective Nitrate Reduction to Ammonia	R Gupta, U Alam, R Kumar, S Kumar, N Verma	3	2025	187	
175	Microchemical Journal	Cu-Ag Nanoparticles-Dispersed and Microchannel Textured-Laser Induced Graphene: A Chemiresistive Aptasensor for Thrombin	R Gupta, T Santra, S Misra, N Verma	207	2024	111895	
176	Nanoscale	Carbon-Based Nanocarriers for Plant Growth Promotion: Fuelling When It Needs	MA Asfaq, G Gupta, N Verma	17	2024	616-634	
177	Chemical Engineering Science	Cu Nanowire - Impregnated Activated Carbon Fiber for Antibacterial Applications	RA Omar, SB Ranavare, N Verma	299	2024		

178	Catalysis Letters	Development of a Regenerable Fe-Ag/CNF Catalyst for the Oxidation of Organics-Laden Wastewater	H Ali, R Gupta, K Basak, N Verma	154	2024	5034-5044	
179	International Journal of Hydrogen Energy	Efficient spatial charge separation in the Ruddlesden-popper phase-based S-scheme Fe ₂ SnO ₄ -g-C ₃ N ₄	A Gupta, U Alam, N Verma	58	2024	69-78	
180	Materials Letters	Graphitic carbon nitride-immobilized bacterial endospores: Combined adsorptive- and bio-desulfurization of liquid fuels	RA Omar, B Bhaduri, N Verma	361	2024	136117	
181	Microchemical Journal	Detection of vanillin in food products over Cu - laser induced graphene nanocomposite using the combined electrochemistry and UV-Vis spectroscopy principles	R Gupta, H Ali, N Verma	199	2024	109984	
182	The Canadian Journal of Chemical Engineering	Fuzzy averaging level control for tight product quality control	A Gupta, P Srivastava, N Kaistha	103	2025	1295-1308	
183	Industrial & Engineering Chemistry Research	Leveraging Surge Capacity for Sustainable Process Operation: Control Structure	A Gupta, P Srivastava, N Kaistha		2025		

184	Industrial & Engineering Chemistry Research	Synthesis and Integrated Design of a Compact Azeotropic Process for EtAc–MeOH–Water Separation	P Srivastava, A Gupta, N Kaistha	63	2024	21466-21478	
185	Process Integration and Optimization for Sustainability	Plantwide Surge Capacity Control for Sustainable Process Operation	A Gupta, P Srivastava, N Kaistha		2024	01-17	
186	Journal of Environmental Chemical Engineering	Understanding the role of Mn in Ni-Mn/Al ₂ O ₃ and Ni ₃ Fe-Mn/Al ₂ O ₃ catalysts for enhanced CO ₂ methanation activity	JK Prabhakar, R Kumar, K Ray, PA Apte, G Deo	13	2025	115233	
187	Fuel	Exploring optimal total metal loading of Ni ₃ Fe/Al ₂ O ₃ catalyst for CO ₂ methanation and its kinetic model	Jitendra Kumar Prabhakar, Pankaj A. Apte and Goutam Deo	367	2024	131447	
188	Endocrine and Metabolic Science	CtBP: A mediator of a metabolic switch from homeostasis to carcinogenesis	Saumya Shukla, Raghvendra Singh	17	2025	100208	
189	npj systems biology and applications	A negative feedback loop underlies the Warburg effect	Alok Jaiswal & Raghvendra Singh	10	2024	55	
190	Catalysis Today	O ₂ and CO ₂ assisted oxidative dehydrogenation of propane using ZrO ₂ supported vanadium and chromium oxide catalysts	Rajvikram Singh , Sudhir Charan Nayak , Raghvendra Singh, Goutam Deo	432	2024	114617	
191	ACS Applied Engineering Materials	Tailoring the Coffee Ring Effect by Chemically Active Janus Colloids	K Singh, P Kumar, H Raman, H Sharma, R Mangal	3	2025	275-285	

192	Physical Review E	Motility and pairwise interactions of chemically active droplets in one-dimensional confinement	P Kumar, P Dwivedi, S Ashraf, D Pillai, R Mangal	110	2024	24612	
193	Indian Chemical Engineer	Electrochemical CO ₂ reduction on noble metals: parameters, performance, and practical pathways	V Kumar, MZ Iqbal, P Swarup Dash, RGS Pala		2024	01-34	
194	Physical Chemistry Chemical Physics	Rapid nucleation and optimal surface–ligand interaction stabilize wurtzite MnSe	SK Sharma, V Chaudhary, RGS Pala, S Sivakumar	26	2024	20837	
195	Catalysis Science & Technology	Increasing electrochemical chlorine selectivity over oxygen selectivity through the optimal weakening of oxygen bonds in transition metal-doped RuO ₂	S Saha, K Kishor, RGS Pala	14	2024	4566	
196	Energy Technology	Lead-Free, Ultrastable, Tungsten-Based Ruddlesden–Popper and Hybrid Perovskite Frameworks for Aqueous Pseudocapacitive Charge Storage	Sasmal S.;Roy S.;Gupta P.K.;Ramkumar K.;Biswas P.;Ghorui B.;Saju S.K.;Ajayan P.M.;Valiyaveetil S.;Pala R.G.S.;Sivakumar S.		2025	2400531	
197	IEEE Transactions on Instrumentation and Measurement	Taste Classification by Data Fusion at a Single-Channel Hybrid Potentiometric and Impedimetric Electronic Tongue	Yadav S.;Pala R.G.	74	2025	9517508	

198	Journal of Materials Engineering and Performance	Influence of feedstock on the excellent corrosion inhibition effect of cattle manure	S Mandal, B Bhushan, RK Gupta, K Mondal	34	2025	749-762	
199	Molecular Catalysis	Modeling the role of Ta-dopant and co-catalytic water for activation of CO2 on anatase TiO2 (101)	N Surya R., RK Gupta, V Agarwal	570	2025	114642	
200	Sustainable Materials and Technologies	Excellent corrosion inhibition efficiency of Catharanthus roseus (Nayantara or Sadabahar) leaf aqueous extract on mild steel in chloride-contaminated solutions at different pH	S Mandal, S Das, RK Gupta, K Mondal	41	2024	e01058	
201	Materials Today Energy	Waste-derived carbon quantum dots for improving the photostability of perovskite solar cells to > 1,000 h	Y Kumar, L Yadav, A Singh, RK Gupta, KS Nalwa, A Garg	44	2024	101654	
202	Oxford Open Materials Science	Scaling of inverted PTB7-Th: PC71BM organic solar cell for large area organic photovoltaic module	B Usmani, R Ranjan, RK Gupta, A Garg	4	2024		
203	Applied Biochemistry and Biotechnology	Sustainable Nanoparticles from <i>Stephania glabra</i> and Analysis of Their Anticancer Potential on 2D and 3D Models of Prostate Cancer	P Vaid, AK Saini, RK Gupta, ES Sinha, D Sharma, WF Alsanie, VK Thakur	196	2024	3511-3533	

204	ACS Sustainable Resource Management	Photoactive Graphene Aerogel from Biomass for the Visible-Light-Induced Degradation of Pharmaceutical Residues	N Dhiman, VK Tripathi, J Dwivedi, RK Gupta, KM Tripathi	1	2024	1068-1085	
205	Chemical Engineering Journal	Ruthenium doping of NASICON electrolyte augments the performance of solid-state sodium-ion batteries	MD Singh, DK Gorai, K Brajesh, P Singh, V Ranawade, AV Shinde, M Jareer, R Gupta, A Garg, V Agarwal, KS Nalwa	489	2024	151330	
206	Bioresource Technology Reports	From trash to treasure: Cattle manure as a potent green corrosion inhibitor	S Mandal, D Banik, S Banik, D Nandan, R. Ramapanicker, RK Gupta, K Mondal	26	2024	101841	
207	Batteries & Supercaps	Enhanced Oxygen Redox Kinetics and Stability in Li-O ₂ Batteries Using Trimetallic MnCo ₂ -xCu _x O ₄ Spinel Catalysts	P Kannan, SG Chandrappa, RK Gupta, AS Prakash		2024	e202400615	
208	The Journal of Physical Chemistry B	Similarity-Based Machine Learning for Small Data Sets: Predicting Biolubricant Base Oil Viscosities	JY Kim*, SA Khan*, DG Vlachos	128	2024	11963-11970	
209	The Journal of Physical Chemistry C	Structure, Stability, and Activity of Titania-Supported VO _x in the Presence of Oxygen Vacancies and Adsorbed Water or Atomic Oxygen	A Worrada, SA Khan, DG Vlachos, S Caratzoulas	128	2024	18933-18941	

210	ACS Catalysis	Charge Transfer Drives Hydrogen Adsorption, Spillover, and Hydroxylation at the Pt/ γ -Al ₂ O ₃ Interface	George Yan, Salman A Khan, Dionisios G Vlachos	14	2024	13579-13590	
211	Digital Discovery	Automated extraction of synthesis parameters of pulsed laser-deposited materials from scientific literature	Rajan Kumar, Ablokit Joshi, Salman A Khan, Shikhar Misra	3	2024	944-953	
212	Kinetics, Catalysis, and Reaction Engineering	Modeling Inhibitory Effects of Chlorogenic Acid on Amyloid Beta Aggregation	Abdul Majid, Sanjeev Garg	63	2024	7636–7645	
213	Journal of Applied Electrochemistry	Development of an electrochemical sensor based on aniline, N-phenylglycine, graphene oxide and p-tertbutyl-calix-[4]-arene for trace detection of uranium ion from water	K Dutta, S Panda	55	2025	203-216	
214	Carbohydrate Polymers	Probing the ionic activation enthalpies in anionic polysaccharide xerogel-based single ion conductor for temperature sensing	G Kumar, S Panda	340	2024	122258	
215	Biomicrofluidics	pH effects on capture efficiency and deposition patterns in sessile droplet immunoassays: An XDLVO analysis	VS Rathaur, NA Gokhale, S Panda	18	2024	54103	

216	Chemical Papers	Development of a novel electrochemical sensor for the detection of U6+ ion with polyaniline, N-phenylglycine and graphene oxide based electrode	K Dutta, T Vincent, S Panda	78	2024	7667-7682	
217	Engineering Research Express	Dispersion frequency technique to explain the charge transfer process involved in cadmium detection using aniline, N-phenylglycine and graphene oxide based electrochemical sensor	K Dutta, S Panda	6	2024		
218	RSC Sustainability	A natural fibre based sustainable and high-performance platform for electrochemical sensors	NA Gokhale, CSR Vusa, S Panda	2	2024	1849-1858	
219	Microchemical Journal	Bio-inspired wettability patterning for flexible and wearable electrochemical immunosensors utilizing PDMS-TiO2 coating	SM Inukonda, S Panda	200	2024	110425	
220	ACS nano	Generation and Propagation of Flexoelectricity-Induced Solitons in Nematic Liquid Crystals	X Tang, N Atzin, A Mozaffari, S Das, NL Abbott, JJ de Pablo	18	2025	10768-10775	

221	Chemistry–A European Journal	Unravelling the Relaxation Pathway and Excited State Dynamics of Ruthenium (II) Polypyridyl Complexes Incorporating Phosphorus-Based Monodentate Ligands	R Mishra, A Saha, P Chatterjee, S Kundu, M Verma, S Sarkar, S Sivakumar ...,	31	2025	e202404231	
222	ChemCatChem	Amorphous Al ₂ O ₃ -Supported NiMo Nanocatalysts: Boosting Type 2 Sites for Hydrodesulfurization Reaction	S Arora, R Khan, S Sivakumar	17	2025	e202401673	
223	Chemistry–An Asian Journal	Electrospun Mesoporous Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ - CNT - Hollow Carbon Ternary Composite Nanofibers as High Performance Electrodes for Advanced Symmetric ...	V Sudheendra Budhiraju, V Runkana, A Sharma, S Sivakumar (2025)	20	2025	e202400815	
224	Nanoscale	Active tumor targeting by core–shell PDMS–HA nanoparticles with sequential delivery of doxorubicin and quercetin to overcome P-glycoprotein efflux pump	M Verma, K Yadav, R Parihar, D Dutta, S Chaudhuri, S Sivakumar	17	2025	5033-5055	

225	Journal of the Indian Chemical Society	Exploring the potential of Ni-doped CuO nanoparticles as a promising electrode material for asymmetric supercapacitors	B Mahalakshmi, S Sivakumar, NA Mala, E Manikandan	102	2025	101589	
226	International Journal of Nanomedicine	Resveratrol-Ampicillin Dual-Drug Loaded Polyvinylpyrrolidone /Polyvinyl Alcohol Biomimic Electrospun Nanofiber Enriched with Collagen for Efficient Burn Wound Repair	S Kanaujiya, DK Arya, P Pandey, S Singh, G Pandey, S Anjum		2024	5397-5418	
227	Materials Today Communications	In vitro evaluation of decellularized floral scaffold with surface nanotopography for skin tissue engineering	P Singh, AK Maparu, M Mishra, B Rai, S Sivakumar	41	2024	111056	
228	Journal of Inorganic and Organometallic Polymers and Materials	Enhanced sun light driven photocatalytic activity of silver tungstate/reduced graphene oxide nanocomposites for methylene blue dye degradation	A Malathi, A Priyadharsan, S Ragupathy, S Sivakumar, P Vadivel, V Arun	34	2024	1181-1192	
229	Ionics	Boosted solar-driven photocatalysis: silver molybdate/reduced graphene oxide nanocomposites for methylene blue decomposition	A Malathi, A Priyadharsan, M Handayani, I Hasan, G Divya, K Sivaranjani	30	2024	1603-1614	

230	Journal of Catalysis	Suppression of inactive sites in NiMo@ amorphous alumina catalysts for hydrodesulfurization reaction: Effect of Ga doping	S Arora, S Sivakumar	434	2024	115501	
231	Journal of Colloid and Interface Science	PDMS nanoparticles-decorated PDMS substrate promotes adhesion, proliferation and differentiation of skin cells	AK Maparu, P Singh, B Rai, A Sharma, S Sivakumar	659	2024	629-638	
232	The Journal of Physical Chemistry C	Theoretical Investigation of Solvated Electron Chemistry in Molten CaCl ₂	DK Gorai, H Metiu, V Agarwal	129	2025	4907-4914	
233	ChemPhysChem	Role of H ₂ O ₂ as Oxidant and H ₂ O as Co-catalyst over Anatase-TiO ₂ (101) for Conversion of Methane to Methanol	K Charakhwal, V Agarwal	26	2024	e202400708	
234	Journal of Non-Newtonian Fluid Mechanics	Master curves for unidirectional flows of FENE-P fluids in rectilinear and curvilinear geometries	PSDSP Tej, PK Mohanty, V Shankar	334	2024	105332	
235	Physics of Fluids	Transient shear banding during startup flow: Insights from nonlinear simulations	S Sharma, YM Joshi, V Shankar	36	2024	194135	
236	Current Opinion in Colloid & Interface Science	Linear Viscoelasticity of Physically Aging Soft Glassy (Thixotropic) Materials	YM Joshi	76	2025	101896	

237	Nanoscale	Two-photon pumped forward, backward and random lasing in a stilbazolium dye nanocomposite solution containing LAPONITE® as a scattering center	GS He, S Gupta, RA Vaia, YM Joshi, PN Prasad	17	2025	2292-2303	
238	The Journal of Physical Chemistry C	Dramatic Enhancement of One and Two Photon-Excited Emission of a Stilbazolium Dye Coupled to Laponite Platelets	S Gupta, GS He, V Kumar, A Pitter, M Trebbin, MT Swihart, RK Kumar,	128	2024	17961-17970	
239	Journal of Rheology	PERSPECTIVE: Analysis of thixotropic timescale	YM Joshi	68	2024	641-653	
240	Physics of Fluids	Harmonic balance for differential constitutive models under oscillatory shear	S Mittal, YM Joshi, S Shanbhag	36	2024	53104	
241	Soft Matter	Ductile-to-brittle transition and yielding in soft amorphous materials: perspectives and open questions	T Divoux, E Agoritsas, S Aime, C Barentin, JL Barrat, R Benzi, L Berthier	20	2024	6868-6888	
Department of Chemistry							
242	Chem Asian J	Robust Cd(4,5-Imdb)-MOF for Lewis-Acid Assisted Catalysis and Selective Sensing of 2,4,6-Trinitrophenol.	Sachan, S. K.; Rajora, A.; Ojha, S.; Anantharaman, G.		2024		

243	Dalton Transactions	Not so Inert Mer-Tris-Chelate Cobalt(III) Complex of a Hydroxy-Pyridine Functionalized NHC Ligand for Cyclic Carbonate Synthesis.	Chowdhury, R.; Bhat, I. A.; Sachan, S. K.; Anantharaman, G.		2024		
244	Inorganica Chim Acta	Metal and Solvent Dependent Formation of Imidazolidine or Hemiaminal Ether Complexes.	Ghosh, S.; Butcher, R. J.; Angamuthu, R.	570	2024		
245	Chemical Communications	Direct Observation of Arene...sulphur Dioxide Interaction: Role of Metal Ions in Electronic Modulation for Binding and Activation.	Singh, S.; Dinesh, S.; Yadav, A.; Raje, S.; Butcher, R. J.; Sundararajan, M.; Angamuthu, R.		2024		
246	Organometallics	Protic Ru(II)-NHC Pincer Catalyst for the Catalytic Hydrogenation of CO ₂ and Its Derivatives to Methanol.	Bhattacharya, A.; Kaur, M.; Kumar, R.; Choudhury, J.; Bera, J. K.	44 (1)	2025	244–254	
247	Polyhedron	Synthesis and Structural Studies of 1-Naphthyl and Mesityl Ligand Bearing Organotellurium(II and IV) Derivatives.	Tripathi, A. K.; Singh, P.; Anamika; Bera, J. K.; Duthie, A.; Butcher, R. J.	272	2025		
248	Main Group Chemistry	Synthesis and Single Crystal X-Ray Studies of Bis-(Trimethylsilylmethyl) Tellurium Diiodide through an Insertion Route.	Tripathi, A. K.; Singh, P.; Butcher, R. J.; Bera, J. K.; Singh, P.		2024	1–8	

249	ACS Catal	Hyper-Cross-Linked Polymer-Based Self-Supported Reusable Ru-NHC Catalyst for Amine-Assisted Hydrogenation of CO ₂ to Methanol	Kumar, R.; Mandal, T.; Bhattacherya, A.; Pandey, M. K.; Bera, J. K.; Choudhury, J.	14 (17)	2024	13236–13245	
250	Chemistry - A European Journal	A Single Terminal [NiII–OH] Catalyst for Direct Julia-Type Olefination and α -Alkylation Involving Sulfones and Alcohols.	Pandey, P. K.; Patra, M.; Ranjan, P.; Kumar Pal, N.; Choudhary, S.; Bera, J. K.	30 (35)	2024		
251	ACS Appl Nano Mater	Multimetallic Prussian Blue Analogue Nanoparticles for Oxygen Evolution Reaction and Efficient Benzyl Alcohol Oxidation.	Singh, B.; Kumar, R.; Draksharapu, A.	7 (13)	2024	15763–15771	
252	ACS Appl Nano Mater	Electronic Feature Modification of Ni and Co Free Metal-Organic Framework Nanoparticles by Vanadium Introduction for Water Oxidation.	Singh, B.; Verma, N.; Arora, P.; Draksharapu, A.		2024		
253	J Photochem Photobiol A Chem	Dual Function Schiff-Base as a Selective Fluorescence “Turn-on” Sensor for Zn ²⁺ and a Colorimetric Sensor for Cu ²⁺ and Fe ³⁺ Ions.	Gangatharan Vinoth Kumar, G.; Awasthi, A.; Draksharapu, A.	454	2024		
254	Mater Lett	A Schiff Base Functioning as a Highly Selective Colorimetric Sensor for Cu ²⁺ Ion.	Vinoth Kumar, G.; Arora, P.; Draksharapu, A.	371	2024		

255	Eur J Inorg Chem	Exploring the Reactivity of High Valent Iron Intermediates in Water	Sharma, P.; Kumar, R.; Awasthi, A.; Draksharapu, A.		2024		
256	Dalton Transactions	Amphoteric Reactivity of a Putative Cu(II)–mCPBA Intermediate.	Kumar, R.; Maji, A.; Biswas, B.; Draksharapu, A.	53 (12)	2024	5401–5406	
257	Chemical Communications	Nitrate-Coordinated FeNi(OH) ₂ for Hydrazine Oxidation Assisted Seawater Splitting at the Industrial-Level Current Density.	Singh, B.; Kumar, R.; Ansari, T.; Indra, A.; Draksharapu, A.	60 (70)	2024	9432–9435	
258	Royal Society of Chemistry	Exploring Hybrid Seawater Electrolysis with Anodic Oxidation Reactions (AORs): Recent Progress and Prospects. Sustainable Energy and Fuels.	Singh, B.; Goyal, A.; Verma, S.; Singh, L.; Draksharapu, A.		2024		
259	Eur J Inorg Chem	Pivotal Role of Salicylates in Tuning the Formation and Reactivity of Mn(V)=O's.	Arora, P.; Kumari Vechalapu, S.; Duraisamy, S.; Allimuthu, D.; Draksharapu, A.	27 (17)	2024		
260	J Am Chem Soc	Formation and Reactivity of a MnIV(O)(μ-O)CeIV Species: A Closest Mimic of Photosystem II.	Gupta, S.; Arora, P.; Aghaei, Z.; Singh, B.; Jackson, T. A.; Draksharapu, A.		2024		
261	Chemistry – A European Journal	Altering the Localization of an Unpaired Spin in a Formal Ni(V) Species.	Awasthi, A.; Mallojjala, S. C.; Kumar, R.; Eerlapally, R.; Hirschi, J. S.; Draksharapu, A.	30 (4)	2024		

262	Inorg Chem Front	A Cu(II) Pseudopeptide Complex: A Surrogate to a Formal Cu(III) Species in Water and an Inhibitor of Cancer Cell Proliferation.	Eerlapally, R.; Vechalapu, S. K.; Duraisamy, S.; Hareendran, D. L.; Debnath, J.; Allimuthu, D.; Draksharapu, A.	11 (16)	2024	5172–5184	
263	ACS Appl Bio Mater	Copper and Manganese Complexes of Pyridinecarboxaldimine Induce Oxidative Cell Death in Cancer Cells.	Vechalapu, S. K.; Kumar, R.; Sachan, S. K.; Shaikh, K.; Mahapatra, A. Das; Draksharapu, A.; Allimuthu, D.		2024		
264	Chemical Communications	Structural and Reactivity Insights into High-Valent Co(III)-(μ-Peroxo)-Co(IV) and Its Electromer Co(III)-(μ-Superoxo)-Co(III).	Sharma, P.; Gupta, S.; Kumar, R.; Charisiadis, A.; Sauvan, M.; Velasco, L.; Saini, A.; Moonshiram, D.; Draksharapu, A.		2024		
265	Angewandte Chemie - International Edition	Formation of a Reactive [Mn(III)–O–Ce(IV)] Species and Its Facile Equilibrium with Related Mn(IV)(OX) (X = Sc or H) Complexes.	Gupta, S.; Arora, P.; Kumar, R.; Awasthi, A.; Chandra, B.; Eerlapally, R.; Xiong, J.; Guo, Y.; Que, L.; Draksharapu, A.	63 (3)	2024		
266	ACS Catal	Capturing the Elusive [RuV=O] ⁺ Intermediate in Water Oxidation.	Phapale, D.; Sharma, V.; Saini, A.; Sharma, S.; Kumar, P.; Kumar, R.; Shanmugam, M.; Draksharapu, A.; Dutta, A.; McInnes, E. J. L.; Collison, D.; Rajaraman, G.; Shanmugam, M.		2024	11893–11904	

267	iScience	Redox Modulator Iron Complexes Trigger Intrinsic Apoptosis Pathway in Cancer Cells.	Vechalapu, S. K.; Kumar, R.; Chatterjee, N.; Gupta, S.; Khanna, S.; Thimmappa, P. Y.; Senthil, S.; Eerlapally, R.; Joshi, M. B.; Misra, S. K.; Draksharapu, A.; Allimuthu, D.	27(6)	2024		
268	Chemistry - A European Journal	Synthesis and Reactivity of a Non-Heme μ -Oxodicobalt(IV) Complex.	Kaur, S.; Keshari, K.; Sauvan, M.; Velasco, L.; Arora, P.; Santra, A.; Charisiadis, A.; Ugale, A. D.; Draksharapu, A.; Moonshiram, D.; Paria, S.		2025		
269	Inorg Chem	Electron Shuttling in High-Valent Heterobimetallic NiFe-Porphyrin Dimers: Stabilization of Ni(III) and Fe-Phenoxy Radicals.	Banerjee, S.; Awasthi, N.; Roychowdhury, A.; Samanta, D.; Arora, P.; Dutta, N.; Draksharapu, A.; Garribba, E.; Rath, S. P.		2025		
270	bioRxiv	Small Molecule Promoters of Endogenous Lipid Droplet Accumulation Drive Lysophagy.	Vechalapu, S. K.; Duraisamy, S.; Senthil, S.; Kumar, R.; Ajnar, D.; Draksharapu, A.; Kumar, S.; Allimuthu, D.		2025		
271	Inorg Chem	Impact of Lewis Acids on the Reactivity of a High-Valent Cu(III) Complex.	Eerlapally, R.; Hareendran, D. L.; Velasco, L.; Charisiadis, A.; Sauvan, M.; Debnath, J.; Moonshiram, D.; Draksharapu, A.		2025		

272	biorxiv	Small Molecule Promoters of Endogenous Lipid Droplet Accumulation Drive Lysophagy.	Vechalapu, S. K.; Duraisamy, S.; Senthil, S.; Kumar, R.; Ajnar, D.; Draksharapu, A.; Kumar, S.; Allimuthu, D.		2025		
273	Inorg Chem	3d-2p-5d Orbital Synergy in Electrocatalytic Hydrazine Oxidation Assisted Water Splitting with Industrial Scale Current Density.	Arora, P.; Bhadauriya, K.; Singh, L.; Goyal, A.; Verma, S.; Singh, B.; Draksharapu, A.		2025		
274	Chemical Communications	Prussian Blue Analogue Heterointerface on a Pre-Oxidized Copper Foam Surface for Enhanced Anodic Oxidation Performance.	Goyal, A.; Verma, S.; Singh, L.; Singh, B.; Draksharapu, A.		2025		
275	ACS Appl Mater Interfaces	Introducing Sulfur in VNi-Layered Double Hydroxide Enables Efficient Electrocatalytic Oxidation of Benzylamine with High Current Densities.	Singh, B.; Kumar, R.; Verma, N.; Draksharapu, A.		2025		
276	Coordination Chemistry Reviews.	Correlating Structure-Activity-Stability Relationship of High-Valent 3d-Metal-Based MOFs and MOF-Derived Materials for Electrochemical Energy Conversion and Storage.	Singh, B.; Kumar, R.; Draksharapu, A.		2025		

277	Small	Long-Lived Charge Separation Enabled by Molecular Engineering of Phenazine-Based Hole Transport Materials.	Aggarwal, P.; Chaudhary, A.; De, S.; Singh, R. G.; Govind Rao, V.		2025		
278	J Med Chem	De Novo 3-(Phenylcarbamoyl) Benzoate Analogues: Efficacy against Multidrug-Resistant S. Aureus and Elucidation of the Biodistribution Profile.	Sonker, H.; Chaudhary, K.; Agrahari, B.; Dewan, S.; Ankit; Chaudhary, A.; Kumar, A.; Swain, N.; Singh, R. G.		2025		
279	ACS Organic and Inorganic Au	Zinc(II) Complexes of SIRT1/2 Analogues Transmetallating with Copper Ions and Inducing ROS Mediated Paraptosis.	Kumar, A.; Chaudhary, A.; Sonker, H.; Subhadarshini, S.; Jolly, M. K.; Singh, R. G.	4 (3)	2024	319–328	
280	Small	Endocytic Uptake of Self-Assembled Iridium(III) Nanoaggregates for Holistic Treatment of Metastatic 3D Triple-Negative Breast Tumor Spheroids.	Chaudhary, A.; Kumar, A.; Swain, N.; Chaudhary, K.; Sonker, H.; Dewan, S.; Patil, R. A.; Singh, R. G.		2024		

281	Adv Healthc Mater	Pyridine-2,6-Dicarboxamide Proligands and Their Cu(II)/Zn(II) Complexes Targeting Staphylococcus Aureus for the Attenuation of In Vivo Dental Biofilm.	Chaudhary, K.; Agrahari, B.; Biswas, B.; Chatterjee, N.; Chaudhary, A.; Kumar, A.; Sonker, H.; Dewan, S.; Saxena, D.; Akhir, A.; Malhotra, N.; Chopra, S.; Misra, S.; Matheswaran, S.; Singh, R. G.	13 (20)	2024		
282	Nat Protoc	The Use of Methanol as a C1 Building Block.	Paul, B.; Kundu, S.	19 (8)	2024	2358–2385	
283	Nat Protoc	Synthesis of N-Heterocycles through Alcohol Dehydrogenative Coupling.	Paul, B.; Panja, D.; Kundu, S.		2024		
284	Org Biomol Chem	Visible Light-Mediated Synthesis of Quinazolinones and Benzothiadiazine-1,1-Dioxides Utilizing Aliphatic Alcohols.	Kumari, S.; Roy, S.; Arora, P.; Kundu, S.	22 (20)	2024	4172–4178	
285	J Catal	Visible Light Induced Cooperative Catalysis by 4CzIPN and Mg(NO ₃) ₂ ·6H ₂ O to Furnish C-P Functionalization of Alkenes and Indoles.	Banu, S.; Kumari, S.; Roy, S.; Kundu, S.	438	2024		

286	ChemCatChem	Regioselective Ring Opening of Epoxide with Alcohols: A Selective Route to α -Alkylated Ketones and β -Alkylated Secondary Alcohols.	Nandi, S.; Borthakur, I.; Mandal, A.; Kundu, S.	16 (16)	2024		
287	Chemistry – A European Journal	Metal-Free Visible-Light Induced Oxidative Cleavage of C(Sp ³)-C, and C(Sp ³)-N Bonds of Nitriles, Alcohols, and Amines.	Borthakur, I.; Joshi, A.; Kumari, S.; Kundu, S.	30 (14)	2024		
288	ChemCatChem	(NHC)Mn(I) Complex Catalyzed Selective Transfer Hydrogenation of Epoxides, Azoarenes and Nitroarenes Utilizing Ammonia Borane.	Kumari, S.; Roy, S.; Saha, K. R.; Kundu, S.		2024		
289	ACS Appl Nano Mater	Nanoparticles of Cobalt for the Reversible (De)Hydrogenation and Oxidative Dehydrogenation of N-Heterocycles under Mild Conditions.	Mandal, A.; Pradhan, M.; Maji, A.; Debnath, R.; Kundu, S.	7 (9)	2024	10182–10193	
290	ACS Catalysis	Reductive Aminomethylation Using Ammonium Formate and Methanol as N1 and C1 Source: Direct Synthesis of Mono- and Di-Methylated Amines.	Borthakur, I.; Nandi, S.; Bilora, Y.; Sadhu, B.; Kundu, S.	14 (8)	2024	5847–5857	

291	Org Lett	Co(II)-Catalyzed Additive-Free Transfer Hydrogenation of N-Heteroarenes at Room Temperature.	Mahapatra, D.; Sau, A.; Ghosh, T.; Roy, A.; Kundu, S.		2024		
292	ACS Catal	Pincer-(NHC)Mn(I) Complex-Catalyzed Selective α -Alkylation of Ketones and Nitriles Using Unactivated Alkenyl Alcohols.	Mandal, A.; Pradhan, M.; Mitra, C.; Nandi, S.; Sadhu, B.; Kundu, S.		2024	706–718	
293	Org Lett	Methyl Formate, an Alternative Transfer Hydrogenating Agent for Chemoselective Reduction of N-Heteroarenes and Azoarenes.	Sau, A.; Mahapatra, D.; Maji, A.; Dey, S.; Roy, A.; Kundu, S.	26 (21)	2024	4486–4491	
294	J Catal	Cobalt Catalyzed Condensation Interrupted Selective Transfer Hydrogenation Using Methanol.	Dey, S.; Thakur, S. D.; Sau, A.; Panja, D.; Roy, T.; Zhang, J.; Annadata, H. V.; Kundu, S.	439	2024		
295	Chemistry – A European Journal	. Reusable CuO NPs Catalyzed Chemodivergent Transfer Hydrogenation of Azoarenes to Hydrazoarenes and Aniline Derivatives.	Thakur, S. D.; Gupta, S.; Dey, S.; Kundu, S.		2025		

296	Organic Chemistry Frontiers	Ligand-Modulated Phosphine-Free Ni(II) Complexes for Z-Selective Semi- Transfer Hydrogenation of Alkynes and Dual Transfer Hydrogenation of α,β -Unsaturated Ketones Using Ammonia Borane.	Ghosh, T. K.; Sau, A.; Mahapatra, D.; Kundu, S.		2025		
297	Adv Funct Mater	Chemical Functionalization Meets Enhanced Electrical Conductivity in Iron Oxide Nanoparticles.	Singh, N.; Pritam, A.; Fransson, J.; Mondal, P. C.		2025		
298	J Photochem Photobiol A Chem	Effect of Halogenation on the Photophysics of Salicylideneimine- Boron Compound: An Unusual Behaviour with Bromination.	Bhowmik, S.; Mondal, D.; Arora, K.; Neelakandan, P. P.; Sen, P.		2025		
299	J Mater Chem C Mater	A Twist in the Molecular Memory Function: Chemical Compositions of Different Redox Couples Control the Resistive Switching Bias Polarity.	Ghoshal, A.; Kaur, R.; Sanju, S.; Singh, A. K.; Mondal, P. C.	466	2025		
300	Small Methods	Electrosynthesis of Ru (II)-Polypyridyl Oligomeric Films on ITO Electrode for Two Terminal Non- Volatile Memory Devices and Neuromorphic Computing.	Sachan, P.; Sharma, P.; Kaur, R.; Manna, D.; Sahay, S.; Mondal, P. C.		2025		

301	Chem Sci	Electrochemically Grafted Molecular Layers as On-Chip Energy Storage Molecular Junctions.	Kaur, R.; Malik, A.; Gupta, R.; Kumari, K.; Singh, S. K.; Bueno, P. R.; Chandra Mondal, P.		2025		
302	Small	Programmed Heterostructures for Enhanced Electrical Conductivity.	Singh, N.; Malik, A.; Sethi, P.; Mondal, P. C.		2024		
303	J Mater Chem C Mater	“All-Organic” Electrode Materials toward High-Performing Rigid to Flexible Supercapacitor Devices.	Sachan, P.; Makkar, P.; Malik, A.; Mondal, P. C.	12 (34)	2024	13639–13650	
304	Chem Asian J	Electrochemical Charge Transfer Kinetics of Ferrocene in the Light of Different Working Electrodes.	Kaur, R.; Ghoshal, A.; Galav, P.; Mondal, P. C.		2024		
305	Chemical Communications	Ruthenium-Infused Nickel Sulphide Propelling Hydrogen Generation via Synergistic Water Dissociation and Volmer Step Promotion.	Nasrin Banu, G.; Rama Prakash, M.; Sengeni, A.; Neppolian, B.		2024		
306	ChemCatChem	Co-W (Hydr)Oxide with Ultralow Ru Promotes Water Dissociation Coupled H ⁺ Abstraction in Alkaline HER.	Neppolian, B.; Sengeni, A.; M, R. P.; G, N. B.		2024		
307	Angewandte Chemie International Edition	Metal-organic Frameworks in Semiconductor Devices.	Parashar, R. K.; Jash, P.; Zharnikov, M.; Mondal, P. C.	63 (15)	2024		

308	Coordination Chemistry Reviews. Elsevier B.V.	Metal-Polypyridyl Complexes Mimicking Electronic Functions. Coordination Chemistry Reviews.	Kaur, R.; Singh, B.; Singh, V.; Zharnikov, M.; Chandra Mondal, P.		2024		
309	Chem Sci	Metal-Free Platforms for Molecular Thin Films as High-Performance Supercapacitors.	Gupta, R.; Malik, A.; Kumari, K.; Singh, S. K.; Vivier, V.; Mondal, P. C.	15 (23)	2024	8775–8785	
310	Chemical Science. Royal Society of Chemistry	The Chirality-Induced Spin Selectivity Effect in Asymmetric Spin Transport: From Solution to Device Applications. Chemical Science.	Gupta, R.; Balo, A.; Garg, R.; Mondal, A. K.; Ghosh, K. B.; Mondal, P. C.		2024		
311	Adv Funct Mater	Unlocking the Potential of Redox-Active Copper Complexes in Thin Films via Proton-Coupled Electron Transfer for Enhanced Supercapacitor Performance.	Gupta, R.; Malik, A.; Sachan, P.; Ghoshal, A.; Kumari, K.; Singh, S. K.; Mena, L. D.; Mondal, P. C.		2024		
312	Asian Journal of Organic Chemistry	Wormhole Mesoporous Silica Framework with Enhanced Thiol Loading for Improved Hg ²⁺ Sequestration.	Ghosh, S.; Mondal, S.; Kaur, R.; Mondal, D.; Daripa, B.; Prasanta, J.; Sinha, K.; Prakash, J.; Mondal, C.; Das, S.; Dhar, A.		2024		

313	Brain Behav Immun	MCC950 Reduces Autophagy and Improves Cognitive Function by Inhibiting NLRP3-Dependent Neuroinflammation in a Rat Model of Alzheimer's Disease.	Naeem, A.; Prakash, R.; Kumari, N.; Ali Khan, M.; Quaiyoom Khan, A.; Uddin, S.; Verma, S.; AB Robertson, A.; Boltze, J.; Shadab Raza, S.	116	2024	70–84	
314	ACS Appl Nano Mater	Enhanced Photostability of the Colloidal Ruddlesden-Popper Perovskite Nanoplate through 4-Fluorobenzylammonium Iodide-Mediated Surface Engineering for Photoluminescent Application.	Sen, A.; Sarkar, P.; Sen, P.	7 (9)	2024	10408–10418	
315	ACS Appl Nano Mater	Suppression of Thermally Assisted Photoluminescence Quenching in CsPbBr ₃ Nanocrystals via Surface Engineering: Implications for Optoelectronic Devices.	Sen, A.; Karmakar, P.; Sarkar, P.; Sen, P.		2024		
316	Chemical Communications	Luminescent Terbium(III) Probes Containing an Aromatic Amino Acid-Based Antenna for Discrimination between Adenine and Guanine Nucleotides.	Pradhan, S.; Shukla, N.; Panigrahi, G.; Patra, A. K.		2024		

317	Dalton Transactions	A Serendipitous Crossed Aldol Reaction in the Ligand Periphery of a Ru(II) Polypyridyl Complex in Silica Bed: Prospects for Delivering Anticancer Agents for Photoactivated Chemotherapy.	Mishra, R.; Chatterjee, P.; Butcher, R. J.; Patra, A. K.		2024		
318	Dalton Transactions	Photocytotoxic Kinetically Stable Ruthenium(II)-N,N-Donor Polypyridyl Complexes of Oxalate with Anticancer Activity against HepG2 Liver Cancer Cells.	Sayala, J.; Srivastava, E.; Kumar, P.; Shukla, N.; Kumar, A.; Patra, A. K.	53 (10)	2024	4580–4597	
319	Dalton Transactions	Photocytotoxic Kinetically Stable Ruthenium(II)-N,N-Donor Polypyridyl Complexes of Oxalate with Anticancer Activity against HepG2 Liver Cancer Cells.	Sayala, J.; Srivastava, E.; Kumar, P.; Shukla, N.; Kumar, A.; Patra, A. K.	53 (10)	2024	4580–4597	
320	Inorg Chem	Dual Photoreactive Ternary Ruthenium(II) Terpyridyl Complexes: A Comparative Study on Visible-Light-Induced Single-Step Dissociation of Bidentate Ligands and Generation of Singlet Oxygen.	Chatterjee, P.; Mishra, R.; Chawla, S.; Sonkar, A. K.; De, A. K.; Patra, A. K.	63 (32)	2024	14998–15015	

321	Dalton Transactions	Hyphenation of Lipophilic Ruthenium(II)-Diphosphine Core with 5-Fluorouracil: An Effective Metallodrug against Glioblastoma Brain Cancer Cells.	Saha, A.; Mondal, I.; Kumari, A.; Sonkar, A. K.; Mishra, R.; Kulshreshtha, R.; Patra, A. K.	53 (4)	2024	1551–1567	
322	Journal of Physical Chemistry C	Pivotal Role of Binding in Ultrafast Hole Transfer from CsPbBr ₃ Nanocrystals to Isomeric Diaminobenzenes	Sarkar, P.; Sen, A.; Dutta, A.; Kumar, R.; Sen, P.	129 (2)	2025	1252–1259	
323	Inorg Chem	A Multifaceted Luminescent Europium(III) Probe for the Discrimination of Nucleoside Phosphates and Detection of Organophosphate Nerve Agents.	Shukla, N.; Singhmar, V.; Sayala, J.; Patra, A. K.		2025		
324	Chemistry - A European Journal	Unravelling the Relaxation Pathway and Excited State Dynamics of Ruthenium(II) Polypyridyl Complexes Incorporating Phosphorus-Based Monodentate Ligands.	Shukla, N.; Singhmar, V.; Sayala, J.; Patra, A. K.		2025		
325	Chemistry - A European Journal	Spin-Flip via Subtle Electronic Perturbation in Axially Ligated Diiron(III) Porphyrin Dimer.	Chakraborty, P.; Ghosh, N.; Awasthi, N.; Rath, S. P.		2024		

326	Chemistry – A European Journal	Conformational Switching of A Nano-Size Urea-bridged Zn(II)Porphyrin Dimer by External Stimuli.	Saha, B.; Pal, C.; Malik, H.; Gopakumar, T. G.; Rath, S. P.		2024		
327	Inorg Chem Front	Modulating Magnetic Exchange, Spin Dynamics and Intermacrocyclic Interactions via an Oxo-Bridge in Dihemes through Stepwise Oxidations.	Banerjee, S.; Tiwari, R. K.; Chakraborty, P.; Rajaraman, G.; Rath, S. P.		2024		
328	Chemistry – A European Journal	Conformational Switching of A Nano-Size Urea-bridged Zn(II)Porphyrin Dimer by External Stimuli.	Saha, B.; Pal, C.; Malik, H.; Gopakumar, T. G.; Rath, S. P.		2024		
329	Chem Sci	Probing Substrate Binding inside a Paramagnetic Cavity: A NMR Spectroscopy Toolbox for Combined Experimental and Theoretical Investigation.	Sarkar, S.; Wu, C. Q.; Manna, S.; Samanta, D.; Chen, P. P. Y.; Rath, S. P.		2024		
330	Inorg Chem	Metal vs Ligand Oxidation: Coexistence of Both Metal-Centered and Ligand-Centered Oxidized Species.	Sanfui, S.; Roychowdhury, A.; Usman, M.; Garribba, E.; Gómez-García, C. J.; Rath, S. P.	63 (12)	2024	5423–5431	

331	Inorg Chem	Bridge vs Terminal Cyano-Coordination in Binuclear Cobalt Porphyrin Dimers: Interplay of Electrons between Metal and Ligand and Spin-Coupling via Bridge.	Sanfui, S.; Usman, M.; Roychowdhury, A.; Pramanik, S.; Garribba, E.; Gómez García, C. J.; Chen, P. P. Y.; Rath, S. P.	63 (34)	2024	15619–15633	
332	Chemistry - A European Journal	Impact of Structural Subtleties on Chirality Induction and Amplification in Trizinc(II)Porphyrin Trimers.	Chandel, D.; Pal, C.; Rath, S. P.		2025		
333	J Porphyr Phthalocyanines	Green Light for Photoredox Catalysis by Corroles and Porphyrins.	Ianovici, T.; Sinha, W.; Sharma, V. K.; Manna, S.; Samanta, D.; Mahammed, A.; Rath, S. P.; Gross, Z.		2025		
334	Inorg Chem	Electron Shuttling in High-Valent Heterobimetallic NiFe-Porphyrin Dimers: Stabilization of Ni(III) and Fe-Phenoxy Radicals.	Banerjee, S.; Awasthi, N.; Roychowdhury, A.; Samanta, D.; Arora, P.; Dutta, N.; Draksharapu, A.; Garribba, E.; Rath, S. P.		2025		
335	ACS Catal	Two-Legged Cp*Co(III)(N,O) Complex as Stable Precatalyst for Selective Catalytic Deoxygenation of Secondary Amides.	Chakraborty, P.; Dutta, S.; Pradhan, S.; Kumari, N.; Maity, B.; Cavallo, L.; Sundararaju, B.		2025	6275–6286	
336	Journal of Organic Chemistry	Manganese-Catalyzed Z-Selective Allylation of Indoles with Allenyl Derivatives.	Vineet Kumar, D.; Sundararaju, B.		2024		

337	Eur J Inorg Chem	Mechanistic Insights of the Ir-bipyridonate Catalyzed Aqueous Methanol Dehydrogenation and Transfer Dehydrogenation to Acetophenone: Experimental and DFT Study.	Garg, N.; Poli, R.; Sundararaju, B.	89 (14)	2024	10087–10092	
338	Eur J Inorg Chem	Mechanistic Insights of the Ir-bipyridonate Catalyzed Aqueous Methanol Dehydrogenation and Transfer Dehydrogenation to Acetophenone: Experimental and DFT Study.	Garg, N.; Poli, R.; Sundararaju, B.		2024		
339	Tetrahedron Green Chem	Chemoselective Hydrogenation of Nitroarenes over Highly Active 3D-COF Derived Co-Nanocarbon Catalyst.	Garg, N.; Chowdhury, A. H.; Sundararaju, B.		2024		
340	Chemical Communications. Royal Society of Chemistry	Enantioselective C-H Bond Functionalization under Co(III)-Catalysis.	Garai, B.; Das, A.; Kumar, D. V.; Sundararaju, B.		2024	3354–3369	
341	ACS Catal	Mechanistic Investigations on Cp*CoIII-Catalyzed Quinoline Transfer Hydrogenation with Formic Acid.	Garg, N.; Dahiya, P.; Mallet-Ladeira, S.; Poli, R.; Sundararaju, B.		2024	17556–17570	

342	Nature Communications	Reductive Coupling of Allenyl/Allyl Carbonate with Alkyne under Dual Cobalt-Photoredox Catalysis.	Pradhan, S.; Satav, D.; Dutta, S.; Maity, B.; Cavallo, L.; Sundararaju, B.	15 (1)	2024		
343	Angewandte Chemie - International Edition	A Dual Cobalt-Photoredox Catalytic Approach for Asymmetric Dearomatization of Indoles with Aryl Amides via C–H Activation	Das, A.; Kumaran, S.; Ravi Sankar, H. S.; Premkumar, J. R.; Sundararaju, B		2024		
344	Langmuir	Efficient Adsorptive Removal of Methylene Blue Dye from Aqueous Solution Using Eragrostis Teff Biomass-Derived Nitrogen and Phosphorus-Codoped Carbon Quantum Dots	Tafese, B. N.; Ganesh, T.; Solomon, A.; Sundararaju, B.; Garg, N.; Alebachew, B	40 (1)	2024	72–83	
345	Angewandte Chemie International Edition	Reversal of Regioselectivity in Asymmetric C–H Bond Annulation with Bromoalkynes under Cobalt Catalysis**	Das, A.; Mandal, R.; Ravi Sankar, H. S.; Kumaran, S.; Premkumar, J. R.; Borah, D.; Sundararaju, B	63 (6)	2024		
346	Catal Sci Technol	A Cobalt Molecular Catalyst for Hydrogen Evolution Reaction with Remarkable Activity in Phosphate Buffered Water Solution.	Trotta, C.; Dahiya, P.; Baldinelli, L.; Menendez Rodriguez, G.; Chakraborty, P.; Bistoni, G.; De Angelis, F.; Sundararaju, B.; Macchioni, A	14 (13)	2024	3699–3706	

347	Catal Sci Technol	How Reliable Are the Overpotentials Reported in Energy Conversion Electrocatalysis?	Sengeni, A		2024		
348	J Mater Chem A Mater	Noda, S. Prior Oxidation of Ni Substrates Increases the Number of Active Sites in Ni ₃ S ₂ Obtained by Sulfidation and Enhances Its Multifunctional Electrocatalytic Activity	Sengeni, A.	12 (10)	2024	5793–5804	
349	Dalton Transactions	An Advanced Ru-Based Alkaline HER Electrocatalyst Benefiting from Volmer-Step Promoting 5d and 3d Co-Catalysts	Ramaprakash, M.; Nasrin Banu, G.; Neppolian, B.; Sengeni, A	53 (17)	2024	7596–7604	
350	Dalton Transactions	Achieving the Optimal Ni(OH) ₂ : Pt Ratio for Enhancing Electrocatalytic Water-Dissociation and H ₂ delivery in Proton-Deficient Environments	Arulraj, R.; Sadhukhan, T.; Sengeni, A		2025		
351	J Mater Chem A Mater	The 250 MV Barrier”: A Thermodynamic Ceiling That Every OER/ORR Researcher Must Know!	Trivedi, P.; Minj, N. C.; Mittal, S.; Kamaraj, B.; Yadav, S.; Sengeni, A	2025	2024		

352	Cell Rep Phys Sci	Tuning Isatoic Anhydrides' Lysine Ligation Chemistry for Bioconjugation and Drug Delivery.	Tiwari, S.; Senthil, S.; Khanna, S.; Duraisamy, S.; Vechalapu, S. K.; Chandra Mallojjala, S.; Allimuthu, D		2024		
353	Inorg Chem Front	A Cu(Ii) Pseudopeptide Complex: A Surrogate to a Formal Cu(Iii) Species in Water and an Inhibitor of Cancer Cell Proliferation	Eerlapally, R.; Vechalapu, S. K.; Duraisamy, S.; Hareendran, D. L.; Debnath, J.; Allimuthu, D.; Draksharapu, A	11 (16)	2024	5172–5184	
354	ACS Appl Bio Mater	Copper and Manganese Complexes of Pyridinecarboxaldimine Induce Oxidative Cell Death in Cancer Cells	Vechalapu, S. K.; Kumar, R.; Sachan, S. K.; Shaikh, K.; Mahapatra, A. Das; Draksharapu, A.; Allimuthu, D		2024		
355	Chemical Communications	Diazepam-Based Covalent Modifiers of GPX4 Induce Ferroptosis in Liver Cancer Cells	Yadav, D. K.; Tiwari, S.; Senthil, S.; Vechalapu, S. K.; Duraisamy, S.; Rawat, V.; Rahman, M. I.; Khanna, S.; Allimuthu, D	60 (14)	2024	1928–1931	
356	iScience	Redox Modulator Iron Complexes Trigger Intrinsic Apoptosis Pathway in Cancer Cells	Vechalapu, S. K.; Kumar, R.; Chatterjee, N.; Gupta, S.; Khanna, S.; Thimmappa, P. Y.; Senthil, S.; Eerlapally, R.; Joshi, M. B.; Misra, S. K.; Draksharapu, A.; Allimuthu, D	27 (6)	2024		

357	Org Lett	Ru(II)-Catalyzed C-H Activation/[4+2] Annulation of Sulfoxonium Ylide with Maleimide: Access to Fused Benzo[e]Isoindole-1,3,5-Trione	Dethe, D. H.; Kumar, V.; Das, R	26 (32)	2024	6830–6834	
358	Org Biomol Chem	Total Synthesis of Diplofuranone A and Diapolic Acid A	Dethe, D. H.; Kumar, V.; Beeralingappa, N. C	22 (18)	2024	3589–3591	
359	Org Lett	Ru(II)-Catalyzed Deoxygenative Formal [3 + 1 + 2] Benzannulation of Allyl Alcohols and Acetylenediester via C–H Activation and Selective Carbon–Carbon Triple Bond Cleavage	Dethe, D. H.; Uike, A.; Beeralingappa, N. C.	26 (10)	2024	2013–2017	
360	Org Lett	Asymmetric Total Synthesis of (+)-Verrubenzospinolactone and (+)-Capillobenzopyranol	Dethe, D. H.; Juyal, S.; Sharma, N.; Kundu, U	26 (15)	2024	3010–3013	
361	Journal of Organic Chemistry	Ruthenium-Catalyzed Interrupted Transfer Hydrogenation: An Approach for Reductive Functionalization of Quinolinium and Naphthyridinium Salts	Dethe, D. H.; Singh, P.; Joshi, A.; Biswas, P		2024		
362	Food Hydrocoll	Rheological Investigation of the Network Structure in Mixed Gels of Kappa and Iota Carrageenan	Bhattacharyya, T.; Palla, C. S.; Dethe, D. H.; Joshi, Y. M	146	2024	109298	

363	Chemical Communications	Enantioselective Total Synthesis of Atisane Diterpenoids: (+)-Sapinsigin H, (+)-Agallochaol C, and (+)-16 α , 17-Dihydroxy-Atisan-3-One	Dethe, D. H.; Sharma, N.; Juyal, S.; Singh, P.; Siddiqui, S. A	60 (61)	2024	7866–7869	
364	Angewandte Chemie - International Edition	Concise Enantioselective Total Syntheses of Rearranged Ent-Trachylobane Diterpenoids (–)-Wallichanols A and B	Dethe, D. H.; Sharma, N.; Juyal, S		2025		
365	Chem Sci	Biomimetic Syntheses of Kadcoccitane H and Kadcotrione C Methyl Ester	Dethe, D. H.; Siddiqui, S. A.; Singha, C		2025		
366	Org Lett	Biomimetic Synthesis of Cucurbalsaminone A	Dethe, D. H.; Singha, C.; Siddiqui, S. A		2025		
367	J Mater Chem A Mater	Synergizing Hydrazine Co-Crystals with Hydrazine Salt of TNAE: A Novel Strategy for Developing Highly Insensitive Explosives	Banik, S.; Ghule, V. D.; Dharavath, S		2025		
368	Dalton Transactions	Exploring New Frontiers: Alliance of Pyrazole and Thiadiazole in Energetic Materials	Kumar, P.; Ghule, V. D.; Dharavath, S		2025		
369	JACS Au	Highly Promising Primary Explosive: A Metal-Free, Fluoro-Substituted Azo-Triazole with Unmatched Safety and Performance	Yadav, A. K.; Kukreja, S.; Dharavath, S		2025		

370	Chemical Communications	Revisiting the Sensitive Nature of H-FOX: Interplay of Nitro and Hydrazine Functionalities to Construct an Insensitive Energetic Material	Yadav, A. K.; Ghule, V. D.; Dharavath, S		2025		
371	Small	Exploring Green Pyrotechnic Formulations and Primary Explosives with 1,3,4-Oxadiazole-Based Micro and Submicron Energetic Coordination Polymers	Banik, S.; Rajak, R.; Shreeve, J. M.; Dharavath, S		2025		
372	Org Lett	Employing Nitrogen-Sulfur Synergy: 1,2,3-Triazole-Thiadiazole-Based Energetic Materials	Kukreja, S.; Yadav, A. K.; Ghule, V. D.; Dharavath, S		2025		
373	Green Chemistry	Biomass-Derived Sustainable Hypergolic Rocket Propellants with Hydrogen Peroxide	Chathoth, R. M.; Oommen, C.; Gozin, M.; Dharavath, S.; Jujam, M.; Chowdhury, D.; Das, J		2025		
374	Dalton Transactions	Advancing Energetic Chemistry: The First Synthesis of Sulfur-Based C-C Bonded Thiadiazole-Pyrazine Compounds with a Nitrimino Moiety	Kumar, P.; Ghule, V. D.; Dharavath, S		2024		

375	Journal of Organic Chemistry	Synthesis and Performance Evaluation of Zwitterionic C-N Bonded Triazole-Tetrazole-Based Primary Explosives	Banik, S.; Ghule, V. D.; Dharavath, S		2024		
376	Journal of Organic Chemistry	Synthesis and Performance Evaluation of Zwitterionic C-N Bonded Triazole-Tetrazole-Based Primary Explosives	Banik, S.; Ghule, V. D.; Dharavath, S		2024		
377	Mater Adv	One Step Synthesis of Nitrogen-Rich Green Primary Explosives from Secondary Explosives: Synthesis, Characterization, and Performance Study	Kumar, P.; Ghule, V. D.; Dharavath, S	5 (16)	2024	6399–6404	
378	Dalton Transactions	Elevating the Energetic Capabilities of Metal Coordination Compounds by Incorporating Nitrate Anions	Yadav, A. K.; Rajak, R.; Dharavath, S	53 (24)	2024	10093–10098	
379	Journal of Organic Chemistry	Elaborating NH-Bridged Nitrogen-Rich Energetic Materials via Base-Mediated Dimroth Rearrangement: Synthesis, Characterization, and Performance Study	Jujam, M.; Ghule, V. D.; Dharavath, S	89 (11)	2024	8192–8200	

380	Chem Asian J	Solvent Free Potassium 3,5-Dinitro-6-Oxo-1,6-Dihydropyrazin-2-Olate 3D EMOF as Thermally Stable Energetic Material	Yadav, A. K.; Ghule, V. D.; Dharavath, S	19 (14)	2024		
381	Comput Theor Chem	Elucidation of the Influence of Trinitro-Diazinotriazine Isomerism on the Energetic Properties and Stability: Insights from DFT Approach	Sharma, K.; Devi, R.; Ghule, V. D.; Dharavath, S	1241	2024		
382	ACS Appl Mater Interfaces	Skeletal Editing of Energetic Materials: Acid-Catalyzed One-Step Synthesis of Bridged Triazoles as High-Energy-Density Materials via the Nef Reaction	Banik, S.; Kumar, N.; Ghule, V. D.; Dharavath, S		2024		
383	Org Lett	Employing the Trifluoromethyl Group on a 5/5 Fused Triazolo[4,3-b][1,2,4]Triazole Backbone: A Viable Strategy for Attaining Balanced Energetics	Kukreja, S.; Yadav, A. K.; Nehe, S.; Dharavath, S		2024		
384	ACS Appl Mater Interfaces	Highly Dense N-N-Bridged Dinitramino Bistriazole-Based 3D Metal-Organic Frameworks with Balanced Outstanding Energetic Performance	Rajak, R.; Kumar, N.; Ghule, V. D.; Dharavath, S		2024		

385	J Mol Model	Bistriazolotriazole-Tetramine: Commendable Energetic Moiety and Cation	Devi, R.; Sharma, K.; Ghule, V. D.; Dharavath, S	30 (4)	2024		
386	Chemical Communications	Zwitterionic Fused Pyrazolo-Triazole Based High Performing Energetic Materials	Kumar, P.; Kumar, N.; Ghule, V. D.; Dharavath, S	60 (12)	2024	1646–1649	
387	J Mol Model	Bistriazolotriazole-Tetramine: Commendable Energetic Moiety and Cation	Devi, R.; Sharma, K.; Ghule, V. D.; Dharavath, S	30 (4)	2024	98	
388	Dalton Transactions	Synthesis of C-C Bonded Trifluoromethyl-Based High-Energy Density Materials via the ANRORC Mechanism	Kumar, P.; Mathpati, R. S.; Ghule, V. D.; Dharavath, S		2024		
389	J Heterocycl Chem	Amine and Nitramine Functionalization of Imidazole-Triazine and Triazole-Triazine Skeletons: Exploring for Potential Multipurpose Energetic Materials	Yadav, A. K.; Jujam, M.; Ghule, V. D.; Dharavath, S	61 (3)	2024	401–406	
390	Org Lett 2024	Exploring the Explosive Potential: Synthesis and Characterization of Ring-Fused Oxadiazolo[3,4-b]Pyrazine 1-Oxide Polymorphs with Balanced Energetic Properties	Yadav, A. K.; Devi, R.; Ghule, V. D.; Dharavath, S		2024		

391	J Heterocycl Chem	Amine and Nitramine Functionalization of Imidazole-triazine and Triazole-triazine Skeletons: Exploring for Potential Multipurpose Energetic Materials	Yadav, A. K.; Jujam, M.; Ghule, V. D.; Dharavath, S	61 (3)	2024	401–406	
392	Inorg Chem	Symmetric Refunctionalization of Diaminodinitropyrazine with Hydrazine and Aminotetrazole: Strategy for Enhancing Detonation Performance and Safety in Energetic Materials	Yadav, A. K.; Kukreja, S.; Nehe, S.; Ghule, V. D.; Dharavath, S	63 (32)	2024	15144–15153	
393	Journal of Organic Chemistry	Magic Blue-Initiated SN2-Type Ring Opening of Activated Aziridines: Friedel-Crafts-Type Alkylation of Electron-Rich Arenes/Heteroarenes	Kashyap, S.; Singh, B.; Ghorai, M. K	89 (16)	2024	11429–11445	
394	J Mater Chem A Mater	Exploration of Cobalt(II) Modification in a Phenanthroline-Based Conjugated Organic Polymer towards Trifunctional Electrocatalysis	Singh, S.; Ghorai, M. K.; Kar, K. K	12 (4)	2024	2400–2412	

395	Journal of Organic Chemistry	Catalytic Aminium Radical-Cation Salt (Magic Blue)-Initiated SN ₂ -Type Nucleophilic Ring-Opening Transformations of Aziridines	Singh, B.; Kashyap, S.; Singh, S.; Gupta, S.; Ghorai, M. K	89 (4)	2024	2247–2263	
396	J Org Chem	Catalytic Aminium Radical-Cation Salt (Magic Blue)-Initiated S N ₂ -Type Nucleophilic Ring-Opening Transformations of Aziridines	Singh, B.; Kashyap, S.; Singh, S.; Gupta, S.; Ghorai, M. K	89 (4)	2024	2247–2263	
397	Journal of Organic Chemistry	A Synthetic Route to Tetrahydro-1H-Azepino[4,3,2-Cd]Indoles via Ring-Opening Cyclization of Activated Azetidines with 4-Bromoindole: Toward a Vasopressin V ₂ Receptor Antagonist	Goswami, G.; Singh, B.; Wani, I. A.; Mal, A.; Ghorai, M. K	89 (16)	2024	11576–11587	
398	Catal Sci Technol	A Metal-Free Route to Substituted Imidazolidines via Ring-Opening Cyclization (ROC) of Activated Aziridines with N-Benzylanilines: DA-COP Catalyzed Photo-Oxidative C-H Activation	Kumar, M.; Singh, B.; Singh, S.; Verma, I.; Kar, K. K.; Ghorai, M. K		2024		

399	Synthesis (Germany)	Lewis Acid Catalyzed SN2-Type Domino Ring-Opening Cyclization (DROC) of Aziridines with Alkynes: A Synthetic Route to 2,3-Dihydro-pyrroles	Shukla, D.; Kashyap, S.; Singh, B.; Sharma, A. K.; Bhattacharyya, A.; Rahman, N.; Ghorai, M. K		2024		
400	Journal of Organic Chemistry	Ring-Opening Cyclization (ROC) of Spiro-Epoxyoxindoles with Indoles/Aldehydes: An Easy Access to Polyheterocyclic Spiro-Oxindoles	Singh, B.; Kashyap, S.; Soni, H.; Verma, I.; Ghorai, M. K		2025		
401	Small	Electrocatalytic Hydrogen Evolution Reaction (HER) with Triphenylamine Based Metal-Free Conjugated Porous Organic Polymers (POPs)	Kumar, M.; Singh, S.; Samanta, D.; Kar, K. K.; Ghorai, M. K		2025		
402	ACS Appl Mater Interfaces	De Novo Synthesis of Acridone-Based Zn-Metal–Organic Framework (Zn-MOF) as a Photocatalyst: Application for Visible Light-Mediated Oxidation of Sulfides and Enaminones	Tamuly, P.; Moorthy, J. N	16 (3)	2024	3348–3358	

403	J Catal	Porous Organic Polymer with Free Carboxylic Acids (Carboxy-POP) as an Expedient Heterogeneous Catalyst for Transamidation/Transamidation of Multifarious Amides, Thioamides, Imides and Urea	Karn, A.; Yadav, N.; Narasimha Moorthy, J	439	2024	115755	
404	Organic Chemistry Frontiers	Visible-Light Heterogeneous Photocatalysis with an Ionic Porous Organic Polymer (IPOP): Synthesis of β -Keto Sulfoxides and Benzothiophene Diesters by Tandem Radical Addition-Oxidation Reactions	Sahoo, A. K.; Tamuly, P.; Moorthy, J. N		2024		
405	Appl Catal A Gen	Copper Complexes of Thiazolo[5,4-d]Thiazole-Based Porous Polymers: Efficient Catalytic Synthesis of 2-Arylquinolines and 2-Arylbenzothiazoles	Sahoo, A. K.; Yadav, C.; Moorthy, J. N	671	2024	119557	
406	Mater Adv	Green Fluorescent Protein Chromophore-Based Covalent Organic Polymers (GFPC-COPs): Sensing of Nitroaromatic Organic Pollutants and Explosives	Anjum, G.; Kumar, A.; Ramanathan, G.; Moorthy, J. N		2024		

407	Mater Adv	Green Fluorescent Protein Chromophore-Based Covalent Organic Polymers (GFPC-COPs): Sensing of Nitroaromatic Organic Pollutants and Explosives	Anjum, G.; Kumar, A.; Ramanathan, G.; Moorthy, J. N		2024		
408	ChemCatChem	Porous Organic Polymers (POPs) Based on Acridone as Heterogeneous Photocatalysts for Oxidative Dimerization and Cyclocondensation Reactions	Tamuly, P.; Sahoo, A. K.; Yadav, N.; Moorthy, J. N		2024		
409	ACS Appl Polym Mater	Ionic Porous Organic Polymer as a Visible-Light Photocatalyst: Efficient Heterogeneous Oxidation of Arylmethylene Compounds and Alcohols Using Molecular Oxygen	Sahoo, A. K.; Bhatta, S. R.; Karn, A.; Moorthy, J. N	6 (11)	2024	6425–6436	
410	RSC Applied Polymers	Design and Synthesis of Tetralactam Macrocyclic-Based Porous Organic Polymers (POPs): Application in the Recovery of Gold from e-Waste	Kumar, A.; Anjum, G.; Moorthy, J. N		2025		
411	Chemistry - A European Journal	Heterogeneous Catalytic Oxidations with In Situ-Generated Hypervalent Iodine-Based Porous Organic Polymers	Tamuly, P.; Parida, K. N.; Quideau, S.; Narasimha Moorthy, J		2025		

412	Chemistry - A European Journal	NXS/TBHP as a Reagent System for Expedient Generation of Halogen Radicals: Site-Selective Halogenation of Quinoxalin-2(1H)-Ones and Conversion of Terminal Alkynes to Gem-Dihaloketones	Yadav, N.; Sahoo, A. K.; Sarkar, D.; Moorthy, J. N		2025		
413	Arch Microbiol	Genomic Profiling and Characteristics of a C1 Degrading Heterotrophic Fresh-Water Bacterium Paracoccus Sp. Strain DMF.	Maurya, S.; Arya, C. K.; Parmar, N.; Sathyanarayanan, N.; Joshi, C. G.; Ramanathan, G	206 (1)	2024	6	
414	J Surfactants Deterg	Microscopic Growth of Pyridinium Oxime Based Amphipathic on Graphite: Effect of Relative Position of Substituents	Chauhan, P.; Saha, P.; Gopakumar, T. G.; Ramapanicker, R		2024		
415	ACS Appl Mater Interfaces	Enhancing Photocatalytic Attributes of Perovskite Nanocrystals in Aqueous Media via Ligand Engineering	Ahlawat, M.; Neelakshi; Ramapanicker, R.; Govind Rao, V	16 (1)	2024	623–632	
416	J Surfactants Deterg	N-Lauroylglutamates with Two and Four Carboxylate Head Groups: Their Interactions with Bovine Serum Albumin	Singh, A.; Gupta, S.; Neelakshi; Gurunarayanan, V.; Ramapanicker, R		2024		

417	Journal of Peptide Science	Incorporation of Phenylcarbonyl Groups in the Sidechain: A Tool to Induce Ordered Assembly of Peptides on Surfaces	Kalita, M.; Yadav, K.; Archana, A.; Gopakumar, T. G.; Vasudev, P. G.; Ramapanicker, R		2024		
418	ChemBioChem	Peptide Stapling Using Sonogashira Coupling	Nandan, D.; Behera, S. K.; Ramapanicker, R		2025		
419	Journal of Peptide Science	Crystallographic Analysis of Short Helical Peptides Containing Homologs of Phenylalanine	Kalita, M.; Archana; Ramapanicker, R.; Vasudev, P. G	31 (2)	2025		
420	J Mater Chem C Mater	Enhancing the Electronic-Coupling and Conductivity of a Monolayer Film of Ferrocenyl Molecules by Pd and Cu Doping	Gautam, S. M. P.; Malik, H.; Meghwal, V.; Manoharan, S.; Gurunarayanan, V.; Ramapanicker, R.; Gopakumar, T. G		2025		
421	In IEEE Wireless Communications and Networking Conference, WCNC; Institute of Electrical and Electronics Engineers Inc.	Hybrid RF-VLC Technology for V2X in Platooning Applications Under Different Weather Conditions	Saikrishnan, S.; Singh, P.; Singh, A.; Srivastava, A		2024		
422	Org Biomol Chem	Photocatalytic C2-Trifluoroethylation and Perfluoroalkylation of 3-Substituted Indoles Using Fluoroalkyl Halides	Arora, S.; Singh, T.; Singh, A	22 (21)	2024	4278–4282	

423	European J Org Chem	Photochemical Fluoroalkylation and Alkylthiolation of O-Cyano and O-alkynyl Acrylamides: Pendant Functionality Led Divergence in Annulations	Singh, A.; Upreti, G. C.; Sahoo, D		2024		
424	Org Lett	Photocatalytic, α -Aminoalkyl Radical-Mediated, Methylene-Extrusive Ring-Closing Transformation of o-Alkynyl and o-Cyano Acrylamides	Upreti, G. C.; Singh, T.; Khanna, K.; Sahoo, D.; Singh, A	26 (17)	2024	3652–3656	
425	Chemical Communications	Peptide-Triggered IL-12 and IFN- γ Mediated Immune Response in CD4 + T-Cells against Leishmania Donovanii Infection	Sharma, S.; Anand, A.; Singh, R.; Singh, R. K.; Verma, S		2024		
426	Mater Today Energy	Waste-Derived Carbon Quantum Dots for Improving the Photostability of Perovskite Solar Cells to > 1,000 h	Kumar, Y.; Yadav, L.; Singh, A.; Gupta, R. K.; Nalwa, K. S.; Garg, A	44	2024		
427	Journal of Organic Chemistry	Visible-Light-Mediated, LMCT-Enabled C(Sp ³)-H Bond Alkylation of Alkanes and Silanes via C-4 Functionalization of Coumarins	Sharma, P.; Singh, T.; Rawat, N.; Singh, A		2025		

428	Journal of Organic Chemistry	Pd-Catalyzed Photochemical Reductive Alkylation of Quinoxalinones and Dibenzoxazepines	Khanna, K.; Upreti, G. C.; Singh, A		2025		
429	Acta Geophysica	Estimation of 3D Moho Topography and Vertical Tectonic Stress in the Eastern Himalayan Syntaxis Using Gravity Data	Rai, A.; Patel, V. C.; Singh, A.; Singh, G. P		2025		
430	Journal of Organic Chemistry	Visible-Light-Mediated Decarboxylative (Amino)Alkylation of Azomethine Imines	Nasireddy, S. R.; Sharma, P.; Khanna, K.; Singh, A		2025		
431	Org Lett	Visible-Light Mediated, Dual-Catalysis Enabled Allylic Difluoroalkylation via Halogen Atom Transfer	Arora, S.; Katiyar, P.; Singh, T.; Singh, A		2025		
432	Journal of Organic Chemistry	Asymmetric Organocatalytic Diels-Alder Reaction of Olefinic Azlactones with Unsaturated Thiazolones: Access to Spirocyclohexenone Thiazolone Skeletons	Khan, Z. A.; Singh, V. K	89 (20)	2024	15271–15281	
433	Asian J Org Chem	Enantioselective Vinylogous Mukaiyama-Michael Reaction of Silyl Ketene Acetals to α , β -Unsaturated 2-Acyl Imidazoles to Construct 1,7-dioxo Compounds	Gill, M.; Das, A.; Singh, V. K		2024		

434	Org Lett	Enantioselective Synthesis of Thiazolopyran Derivatives via a Direct Vinylogous Michael– Oxa - Michael Sequence	Manna, A.; Rohilla, S.; Singh, V. K	26 (1)	2024	280–285	
435	Chemical Communications	Ag(i)-Catalyzed Asymmetric (2+4) Annulation Reaction of 5-Alkenyl Thiazolones: Synthesis of Enantioenriched Spiro[Cyclohexenamines-Thiazolones]	Choudhary, K.; Deshpande, A. S.; Singh, V. K	60 (68)	2024	9062–9065	
436	Asian J Org Chem	Base-Catalyzed Decarboxylative Amination of In-situ Generated Ortho-Quinone Methides: Synthesis of Benzyl Amines	Sahoo, S. R.; Subba, P.; Singh, V. K		2024		
437	Chemistry - A European Journal	Enantioselective Synthesis of Spirooxindole-Pyran and Furan Scaffolds via Copper-Catalyzed Formal (3+3) and (3+2) Cycloaddition of Isatin-Derived Propargylic Esters	Rohilla, S.; Ahmad Khan, Z.; Singh, V. K		2024		

438	Journal of Organic Chemistry	Asymmetric Cascade Dearomatization-Cyclization Reaction of Tryptamines with β,γ -Alkynyl- α -Imino Esters: Access to Hexahydropyrrolo[2,3-b]Indole-Containing Tetrasubstituted α -Amino Allenones	Khajuria, C.; Saini, N.; Subba, P.; Singh, V. K	89 (14)	2024	10148–10162	
439	Chemistry – A European Journal	Silver-Catalyzed Asymmetric Double Desymmetrization via Vinylogous Michael Addition of Prochiral α,α -Dicyanoalkenes to Cyclopentendiones	Choudhary, K.; Joshi, H.; Rohilla, S.; Singh, V. K		2024		
440	Org Lett	Enantioselective Aminative Dearomatization of Indoles via Electrophilic 1,6-Addition of p-Quinone Diimides (p-QDIs)	Subba, P.; Sahoo, S. R.; Khajuria, C.; Singh, V. K	26 (23)	2024	4932–4937	
441	J Org Chem	Organocatalytic Asymmetric Cascade Michael-Acyl Transfer Reaction between 2-Fluoro-1,3-Diketones and 2-Hydroxynitrostyrenes	Saini, N.; Khajuria, C.; Biswas, R. G.; Singh, V. K	89 (2)	2024	1264–1274	
442	Organic and Biomolecular Chemistry. Royal Society of Chemistry June	An Iconic Scientist with an Innate Sixth Sense Who Radicalized Natural Product Synthesis & Organic Chemistry.	Kochat, H.; Yadav, J. S.; Singh, V. K.; Ramasastry, S. S. V. Professor (Dr) Sukh Dev:	26	2024	5466–5469	

443	Management of Environmental Quality: An International Journal	Brand Equity Determinants and Ecologically Conscious Consumer Behavior in Ridesharing: Serial Mediation and Moderation Analysis.	Singh, A.; Patel, A. K.; Jaiswal, S.; Duhan, P.; Singh, V. K.	35	2024	119–138	
444	Org Lett	Organocatalytic Atroposelective Cross-Coupling of 2-Naphthols with Diaryliodonium Salts.	Sahoo, S. R.; Singh, V. K.		2025		
445	Org Biomol Chem	Copper-Catalyzed Enantioselective Propargylic [3 + 2] Cycloaddition: Access to Oxygen Heterocycles Featuring a CF ₃ -Substituted Quaternary Stereocenter.	Rohilla, S.; Khan, Z. A.; Singh, V. K.		2025		
446	Org Chem	Copper-Catalyzed Enantioselective Propargylic [3 + 2] Cycloaddition: Access to Oxygen Heterocycles Featuring a CF ₃ -Substituted Quaternary Stereocenter.	Khan, Z. A.; Rohilla, S.; Singh, V. K.		2025		
447	Org Lett	Relay Catalysis-Enabled Enantioselective Annulations of β,γ -Alkynyl- α -Imino Esters with 1,3-Diones for the Divergent Synthesis of Chiral Oxacycles.	Khajuria, C.; Saini, N.; Gupta, K.; Singh, V. K.		2025		
448	Org Lett 2025.	Collective Total Synthesis of Aculeatin A, B, D, E, and F.	Kumar, M.; Subramanian, P.		2025		

449	PChemical Communications	Synthesis of Dispiro-Orthoester via an Acetal Oxo-Carbenium Ion.	Kumar, M.; Singh, S.; Subramanian, P		2025		
450	European J Org Chem	P. The Total Synthesis of Aspidofractinine and Related Alkaloids.	Parammal, A.; Kumar, M.; Singh, S.; Xavier, J. S.; Subramanian, P.	27(3)	2024		
451	ACS Infect Dis 2024.	Peptide Dendrimer-Based Antibacterial Agents: Synthesis and Applications.	Paul, S.; Verma, S.; Chen, Y.-C.		2024		
452	Langmuir	SERS-Based Microfluidic Bioscreening Platform for Selective Detection of β -Amyloid Peptides.	Jaiswal, A.; Mishra, S.; Dwivedi, P. K.; Verma, S.		2024		
453	Journal of Controlled Release	Strategies for Gaseous Neuromodulator Release in Chemical Neuroscience: Experimental Approaches and Translational Validation.	Ali, R.; Sen, S.; Hameed, R.; Nazir, A.; Verma, S.	365	2024	132–160	
454	Chem Asian J	Crystal Engineering and Self-Assembled Nanoring Formation with Purine-Cd II /Hg II Supramolecular Frameworks.	Avasthi, I.; Muthukumaran, R.; Prajapati, R. K.; Sankararamakrishnan, R.; Verma, S.	19(6)	2024		
455	Chemical Communications	Anti-Proliferative, -Migratory and -Clonogenic Effects of Long-Lasting Nitric Oxide Release in HepG2 Cells.	Bormon, R.; Srivastava, E.; Ali, R.; Singh, P.; Kumar, A.; Verma, S.	60 (26)	2024	3527–3530	

456	John Wiley and Sons Ltd September	Applying Machine Learning for Antibiotic Development and Prediction of Microbial Resistance. Chemistry - An Asian Journal.	Panjla, A.; Joshi, S.; Singh, G.; Bamford, S. E.; Mechler, A.; Verma, S.	16	2024		
457	Biomedicine and Pharmacotherapy	Membrane-Targeting, Ultrashort Lipopeptide Acts as an Antibiotic Adjuvant and Sensitizes MDR Gram-Negative Pathogens toward Narrow-Spectrum Antibiotics.	Panjla, A.; Kaul, G.; Shukla, M.; Akhir, A.; Tripathi, S.; Arora, A.; Chopra, S.; Verma, S.	176	2024		
458	ACS Chem Neurosci	Amyloid Mimicking Assemblies Formed by Glutamine, Glutamic Acid, and Aspartic Acid.	Jaiswal, A.; Patel, M.; Naseer, A.; Kumari, S.; Revi, N.; Rengan, A.; Jain, A.; Nazir, A.; Gour, N.; Verma, S.	15 (11)	2024	2253–2264	
459	Commun Chem	Synthesis of a Highly Thermostable Insulin by Phenylalanine Conjugation at B29 Lysine.	Sen, S.; Ali, R.; Onkar, A.; Verma, S.; Ahmad, Q. T.; Bhadauriya, P.; Sinha, P.; Nair, N. N.; Ganesh, S.; Verma, S.	7 (1)	2024		
460	Commun Chem	Synthesis of a Highly Thermostable Insulin by Phenylalanine Conjugation at B29 Lysine.	Sen, S.; Ali, R.; Onkar, A.; Verma, S.; Ahmad, Q. T.; Bhadauriya, P.; Sinha, P.; Nair, N. N.; Ganesh, S.; Verma, S.	7 (1)	2024		

461	Commun Chem	Synthesis of a Highly Thermostable Insulin by Phenylalanine Conjugation at B29 Lysine.	Sen, S.; Ali, R.; Onkar, A.; Verma, S.; Ahmad, Q. T.; Bhadauriya, P.; Sinha, P.; Nair, N. N.; Ganesh, S.; Verma, S.	7 (1)	2024		
462	ChemBioChem	Gour, N. Amyloid-like Aggregation Propensities of Metabolites- Homogentisic Acid, N-Acetyl Aspartic Acid and Isovaleric Acid.	Dave, R.; Jaiswal, A.; Naseer, A.; Tripathi, A.; Patel, M.; Revi, N.; Rengan, A. K.; Dutta Dubey, K.; Nazir, A.; Verma, S.;		2024		
463	ACS Chem Neurosci	Amyloidogenic Propensity of Metabolites in the Uric Acid Pathway and Urea Cycle Critically Impacts the Etiology of Metabolic Disorders.	Patel, M.; Jaiswal, A.; Naseer, A.; Tripathi, A.; Joshi, A.; Minocha, T.; Kautu, A.; Gupta, S.; Joshi, K. B.; Pandey, M. K.; Kumar, R.; Dubey, K. D.; Nazir, A.; Verma, S.; Gour, N.	15 (5)	2024	916–931	
464	Drug Dev Res	Linear Antimicrobial Peptide, Containing a Diindolyl Methane Unnatural Amino Acid, Potentiates Gentamicin Against Methicillin-Resistant Staphylococcus Aureus.	Singh, S.; Kaul, G.; Shukla, M.; Akhir, A.; Tripathi, S.; Gupta, A.; Bormon, R.; Nair, N. N.; Chopra, S.; Verma, S.	86 (2)	2024		
465	Mater Today Energy	Stabilized Interface with High Discharge Voltage in Lithium Solid-State Batteries with an Organic Cathode.	Thorat, M. P.; Ali, R.; Singh, M. D.; Khan, M. S.; Bormon, R.; Shibi, T. P.; Verma, S.; Nalwa, K. S.	49	2024		

466	Drug Dev Res	Linear Antimicrobial Peptide, Containing a Diindolyl Methane Unnatural Amino Acid, Potentiates Gentamicin Against Methicillin-Resistant Staphylococcus Aureus.	Singh, S.; Kaul, G.; Shukla, M.; Akhir, A.; Tripathi, S.; Gupta, A.; Bormon, R.; Nair, N. N.; Chopra, S.; Verma, S.	86 (2)	2024		
467	Drug Dev Res	Linear Antimicrobial Peptide, Containing a Diindolyl Methane Unnatural Amino Acid, Potentiates Gentamicin Against Methicillin-Resistant Staphylococcus Aureus.	Singh, S.; Kaul, G.; Shukla, M.; Akhir, A.; Tripathi, S.; Gupta, A.; Bormon, R.; Nair, N. N.; Chopra, S.; Verma, S.	86 (2)	2024		
468	Macromol Rapid Commun	Powders to Thin Films: Advances in Conjugated Microporous Polymer Chemical Sensors.	Rajput, S. K.; Mothika, V. S.		2024		
469	Chem Asian J	π -Conjugated Porous Polymer Nanosheets for Explosive Sensing: Investigation on the Role of H-Bonding.	Kumar Rajput, S.; Kapoor, A.; Yogi, A.; Yarlagadda, V.; Suresh Mothika, V.		2024		

470	Physical Chemistry Chemical Physics	Effect of Counterions on the Structure and Dynamics of Water near a Negatively Charged Surfactant: A Theoretical Vibrational Sum Frequency Generation Study.	Malik, R.; Saito, S.; Chandra, A.	26 (24)	2024	17065–17074	
471	Physical Chemistry Chemical Physics	Effect of Counterions on the Structure and Dynamics of Water near a Negatively Charged Surfactant: A Theoretical Vibrational Sum Frequency Generation Study.	Malik, R.; Saito, S.; Chandra, A.	26 (24)	2024	17065–17074	
472	Journal of Chemical Physics	Theoretical Study of the Structure and Vibrational Sum Frequency Generation Spectroscopy of Liquid-Vapor Interface of Aqueous Acetic Acid.	Negi, A.; Malik, R.; Chandra, A.	162 (5)	2025		
473	Journal of Chemical Physics	Behavior of Water at Lipid/Water Interfaces upon Phase Transition of the Lipid Bilayer: Insights from 1D- and 2D-Vibrational Sum Frequency Generation Spectral Calculations from Molecular Dynamics Simulations.	Chandra, A.; Malik, R.; Chandra, A.	162 (5)	2025		

474	Physical Chemistry Chemical Physics	Effects of Cations on the Structure, Dynamics and Vibrational Sum Frequency Generation Spectroscopy of Liquid/Vapor Interfaces of Aqueous Solutions of Monovalent and Divalent Metal Nitrates.	Chandra, A.; Saito, S.; Chandra, A.		2025		
475	Journal of Chemical Physics	Theoretical Study of the Structure and Vibrational Sum Frequency Generation Spectroscopy of Liquid-Vapor Interface of Aqueous Acetic Acid.	Negi, A.; Malik, R.; Chandra, A.	162 (5)	2025		
476	Journal of Chemical Physics	Behavior of Water at Lipid/Water Interfaces upon Phase Transition of the Lipid Bilayer: Insights from 1D- and 2D-Vibrational Sum Frequency Generation Spectral Calculations from Molecular Dynamics Simulations.	Chandra, A.; Malik, R.; Chandra, A.	162 (5)	2025		

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478	Journal of Physical Chemistry Letters	Accurate Determination of Isotope Effects on the Dynamics of H-Bond Breaking and Making in Liquid Water.	Malik, R.; Stolte, N.; Forbert, H.; Chandra, A.; Marx, D.		2025	3727–3733	
479	Journal of Physical Chemistry Letters	Accurate Determination of Isotope Effects on the Dynamics of H-Bond Breaking and Making in Liquid Water.	Malik, R.; Stolte, N.; Forbert, H.; Chandra, A.; Marx, D.		2025	3727–3733	
480	Journal of Physical Chemistry B	Supercritical Water: Density-Independent Angular Jumps.	Choudhary, A.; Kundu, A.; Singh, C.; Sharma, A.; Pant, K. K.; Chandra, A. Supercritical Water: Density-Independent Angular Jumps.	129 (1)	2025	329–337	
481	Journal of Physical Chemistry B	Supercritical Water: Density-Independent Angular Jumps.	Choudhary, A.; Kundu, A.; Singh, C.; Sharma, A.; Pant, K. K.; Chandra, A.	129 (1)	2025	329–337	

482	ACS Appl Mater Interfaces	Deciphering the Dilemma of Community Behavior Promotion and Inhibition by Cationic Bactericide-Coated Nanoparticles in Gram-Negative Bacteria.	Kumar, D.; Gayen, A.; Chandra, M.		2025		
483	ACS Appl Mater Interfaces	Deciphering the Dilemma of Community Behavior Promotion and Inhibition by Cationic Bactericide-Coated Nanoparticles in Gram-Negative Bacteria.	Kumar, D.; Gayen, A.; Chandra, M.		2025		
484	ACS Infect Dis	Growth Phase Contribution in Dictating Drug Transport and Subcellular Accumulation inside Escherichia Coli.	Kumar, D.; Gayen, A.; Chandra, M.	10 (9)	2024	3233–3244	
485	Journal of Physical Chemistry B	Membrane Permeability Dominates over Electrostatic Interactions in Dictating Drug Transport in Osmotically Shocked Escherichia Coli.	Kumar, D.; Gayen, A.; Chandra, M.	128 (20)	2024	4911–4921	
486	Journal of Physical Chemistry Letters	M. Plasmon-Exciton Interaction at the Nanoscale: Silver Is More “Precious” than Gold!	Dey, J.; Viridi, A.; Chandra, M.	15 (30)	2024	7674–7680	

487	Journal of Physical Chemistry Letters	Role of AcrAB-TolC and Its Components in Influx-Efflux Dynamics of QAC Drugs in Escherichia Coli Revealed Using SHG Spectroscopy.	Singh, D.; Kumar, D.; Gayen, A.; Chandra, M.	15 (31)	2025	7832–7839	
488	ACS Applied Materials and Interfaces	Large Area Film of Highly Crystalline, Cleavable, and Transferable Semi-Conducting 2D-Imine Covalent Organic Framework on Dielectric Glass Substrate.	Srivastava, D.; Mishra, V.; Mir, S. H.; Dey, J.; Singh, J. K.; Chandra, M.; Gopakumar, T. G.	16 (23)	2025	30485–30495	
489	Phys Rev B	Graph Theoretic Analysis of Three-Terminal Quantum Dot Thermocouples: Onsager Relations and Spin-Thermoelectric Effects.	Gupt, N.; Ghosh, S.; Ghosh, A.	109 (12)	2025	125124	
490	Langmuir	Impact of Manganese Carbonate Precipitation on Uranium(VI) Fate in Conditions Relevant to Carbonate-Buffered Aquifers.	Sujathan, S.; Gopakumar, T. G.; Singh, A.	41 (1)	2025	140–151	
491	J Mater Chem C Mater	Enhancing the Electronic-Coupling and Conductivity of a Monolayer Film of Ferrocenyl Molecules by Pd and Cu Doping.	Gautam, S. M. P.; Malik, H.; Meghwal, V.; Manoharan, S.; Gurunarayanan, V.; Ramapanicker, R.; Gopakumar, T. G.		2025		

492	Chem Sci	Unusual One Dimensional Cascade Effect in the Thermal and Photo-Induced Switching of Azobenzene Derivatives on a Graphite Surface.	Birla, H.; Mir, S. H.; Yadav, K.; Halbritter, T.; Heckel, A.; Singh, J. K.; Gopakumar, T. G.		2025		
493	ACS Applied Materials and Interfaces	Large Area Film of Highly Crystalline, Cleavable, and Transferable Semi-Conducting 2D-Imine Covalent Organic Framework on Dielectric Glass Substrate.	Srivastava, D.; Mishra, V.; Mir, S. H.; Dey, J.; Singh, J. K.; Chandra, M.; Gopakumar, T. G.	16 (23)	2025	30485–30495	
494	Journal of Peptide Science	Incorporation of Phenylcarbonyl Groups in the Sidechain: A Tool to Induce Ordered Assembly of Peptides on Surfaces.	Kalita, M.; Yadav, K.; Archana, A.; Gopakumar, T. G.; Vasudev, P. G.; Ramapanicker, R.		2024		
495	Chemistry – A European Journal	Conformational Switching of A Nano-Size Urea-bridged Zn(II)Porphyrin Dimer by External Stimuli.	Saha, B.; Pal, C.; Malik, H.; Gopakumar, T. G.; Rath, S. P.		2024		
496	J Surfactants Deterg	Microscopic Growth of Pyridinium Oxime Based Amphipathic on Graphite: Effect of Relative Position of Substituents.	Chauhan, P.; Saha, P.; Gopakumar, T. G.; Ramapanicker, R.		2024		

497	Physical Chemistry C	Can We Extract the Molecule-Molecule and Molecule-Surface Interaction Energies of Molecular Adlayer Separately Using Experimental Techniques? Journal of Physical Chemistry C	Arjariya, R.; Gopakumar, T. G.		2024		
498	J Phys D Appl Phys	Impact of Molecular Convection in Time-Resolved Thermal Lensing: A Computational Exploration.	Sharma, A.; Goswami, D	57 (44)	2024		
499	J Mol Struct	Investigating the Third-Order Nonlinear Optical Properties of a Schiff Base (DBAP) and Its Co/Cu Metal Complex Using Z-Scan and DFT Methodology.	Ali, H.; Anjum, A.; Goswami, D.	1307	2024		
500	J Phys Chem A	Sensitivity Chronicles in Molecular Properties: Unraveling the Nexus of Dual-Beam Z-Scan and Time-Resolved Thermal Lens Spectroscopy.	Sharma, A.; Gupta, S. K.; Goswami, D.	128 (39)	2024	8544–8550	
501	Journal of Physical Chemistry Letters	Precise Nanoparticle Manipulation Using Femtosecond Laser Trapping.	Singh, K. K.; Kumar, D.; Singh, A.; Goswami, D.		2024	10360–10365	

502	Photochem Photobiol	Power-Dependent Study of the Photothermal Response of Several Alcoholic Media with Femtosecond Laser-Induced Thermal Lens.	Rawat, A. K.; Chakraborty, S.; Mishra, A. K.; Goswami, D.	100 (4)	2024	1140–1150	
503	J Mol Liq	Investigating Intermolecular Interactions of Surfactant Solutions Using Femtosecond Thermal Lens Spectroscopy.	Kumar Mishra, A.; Chakraborty, S.; Kumar Rawat, A.; Goswami, D.	414	2024		
504	J Mol Struct	Exploring Acid Hydration Dynamics with Thermal Lens Spectroscopy.	Gupta, S. K.; Sharma, A.; Goswami, D.	1335	2025		
505	Appl Phys B	Comparative Study of Femtosecond and Conventional Optical Tweezers.	Singh, A.; Singh, K. K.; Kumar, D.; Goswami, D.	131 (2)	2025		
506	J Mol Struct	Unravelling Molecular Interactions in Various Alcohol-Water Binary Mixtures Using Femtosecond Laser-Induced Thermal Lens Spectroscopy.	Maurya, R. K.; Mishra, A. K.; Chakraborty, S.; Goswami, D.	1319	2025		
507	Multidisciplinary Digital Publishing Institute (MDPI) April	Dynamical Tunneling in More than Two Degrees of Freedom. Entropy.	Keshavamurthy, S.		2024		
508	Journal of Chemical Physics	Cavity Induced Modulation of Intramolecular Vibrational Energy Flow Pathways.	Mondal, S.; Keshavamurthy, S.	161 (19)	2024		

509	Journal of Physical Chemistry A	Cooperativity between Intermolecular Hydrogen and Carbon Bonds in ZY...CH ₃ CN/CH ₃ NC...HX Trimers (ZY = H ₂ O, H ₂ S, HF, HCl, HBr, NH ₃ , and H ₂ CO; HX = HF, HCl, and HBr).	Gupta, R.; Singha, S.; Mani, D.	128 (23)	2024	4605–4622	
510	ACS Cent Sci	Dual-Functional Antibiotic Adjuvant Displays Potency against Complicated Gram-Negative Bacterial Infections and Exhibits Immunomodulatory Properties.	Dhanda, G.; Singh, H.; Gupta, A.; Abdul Mohid, S. K.; Biswas, K.; Mukherjee, R.; Mukherjee, S.; Bhunia, A.; Nair, N. N.; Haldar, J.		2025		
511	Journal of Physical Chemistry B	A Comprehensive Study of Factors Affecting the Prediction of the PK _a Shift of Asp26 in Thioredoxin Protein.	Verma, S.; Nair, N. N.	128 (30)	2024	7304–7312	
512	J Chem Theory Comput	Buckets Instead of Umbrellas for Enhanced Sampling and Free Energy Calculations.	Javed, R.; Kapakayala, A. B.; Nair, N. N.		2024		
513	Chem Sci	Enhancing the Antibacterial Efficacy of Vancomycin Analogues: Targeting Metallo-β-Lactamases and Cell Wall Biosynthesis.	Sarkar, P.; Xu, W.; Vázquez-Hernández, M.; Dhanda, G.; Tripathi, S.; Basak, D.; Xie, H.; Dietze, P.; Schipp, L.; Bandow, J. E.; Nair, N. N.; Haldar, J.		2025		

514	ACS Omega	Invagination of Giant Unilamellar Vesicles upon Membrane Mixing with Native Vesicles.	Dhanawat, G.; Dey, M.; Singh, A.; Parveen, N.		2024		
515	J Phys Chem B	Disruption Mechanisms of Enveloped Viruses by Ionic and Nonionic Surfactants	Negi, G.; Sharma, A.; Chaudhary, M.; Parveen, N.	128(3)	2024	768-780	
516	ACS Infect Dis	Synergistic Binding of SARS-CoV-2 to ACE2 and Gangliosides in Native Lipid Membranes.	Dey, M.; Sharma, A.; Dhanawat, G.; Gupta, D.; Harshan, K. H.; Parveen, N.	10 (3)	2025		
517	Inorg Chem	An Extended Rudolph Diagram: B3H5 and B3H6+ Relate 3D-, 2D-, 1D-, and 0D-Boron Allotropes.	ChalChaliha, R.; Perumalla, D. S.; Yadav, K.; Prasad, D. L. V. K.; Jemmis, E. D.	63 (24)	2024	10954–10966	
518	Inorg Chem	An Extended Rudolph Diagram: B3H5 and B3H6+ Relate 3D-, 2D-, 1D-, and 0D-Boron Allotropes.	Chaliha, R.; Perumalla, D. S.; Yadav, K.; Prasad, D. L. V. K.; Jemmis, E. D.	63 (24)	2024	10954–10966	
519	The Journal of Physical Chemistry C	Structural Phase Transitions in Perovskite BaCeO ₃ with Data Mining and First-Principles Theoretical Calculations.	Naaz, F.; Chauhan, M. S.; Yadav, K.; Singh, S.; Kumar, A.; Prasad, D. L. V. K.	128 (11)	2024	4766–4778	
520	Physical Chemistry Chemical Physics	Ga Adlayer Model: Capturing Features of GaN(0001) Growth from the Submonolayer to the Multilayer Regime.	Razia, N.; Ranganathan, M. Ga Adlayer Model: Capturing Features of GaN(0001) Growth from the Submonolayer to the Multilayer Regime.		2025		

521	Small	Harnessing Pb–S Interactions for Long-Term Water Stability in Cesium Lead Halide Perovskite Nanocrystals.	Ahlawat, M.; Sahu, A.; Govind Rao, V.	20 (35)	2024		
522	Springer Nature December 1	Plasmonic Chemistry for Sustainable Ammonia Production. Communications Materials.	Choudhary, A.; Halder, A.; Aggarwal, P.; Govind Rao, V.		2024		
523	ACS Appl Mater Interfaces	Enhancing the Photocatalytic Performance of CsPbBr ₃ Nanocrystals through Ferrocene-Assisted Exciton Dissociation and Halide Vacancies.	Singh, S.; Ganguly, D.; Gupta, S.; Govind Rao, V.		2024		
524	Adv Opt Mater	Unlocking Enhanced Light Harvesting in Perovskites: A Light-Mediated Ligand Management Approach.	Singh, S.; Ganguly, D.; Aggarwal, P.; Govind Rao, V.		2024		
525	Adv Opt Mater	Mapping Binding Sites for Efficient Hole Extraction in Lead Halide Perovskites through Sulfur-Based Ligand Engineering.	De, S.; Singh, S.; Aggarwal, P.; Govind Rao, V.		2024		
526	ACS Appl Mater Interfaces	Enhancing the Photocatalytic Performance of CsPbBr ₃ Nanocrystals through Ferrocene-Assisted Exciton Dissociation and Halide Vacancies.	Choudhary, A.; Halder, A.; Aggarwal, P.; Govind Rao, V.		2024		

527	ACS Appl Mater Interfaces	Enhancing the Photocatalytic Performance of CsPbBr ₃ Nanocrystals through Ferrocene-Assisted Exciton Dissociation and Halide Vacancies.	Singh, S.; Ganguly, D.; Aggarwal, P.; Govind Rao, V.		2024		
528	Adv Opt Mater	Unlocking Enhanced Light Harvesting in Perovskites: A Light-Mediated Ligand Management Approach.	Singh, S.; Ganguly, D.; Aggarwal, P.; Govind Rao, V		2024		
529	ACS Appl Nano Mater	Metal Halide Perovskite Nanocrystals for C-X Activation: Role of Halide Vacancies.	Singh, S.; Sahu, S.; Mittal, D.; De, S.; Govind Rao, V.	7 (14)	2024	16913–16921	
530	Adv Opt Mater	Leveraging Phenazine-Based Ligands for Optimized Perovskite Optoelectronic Performance Through Chelation and Redox Engineering.	Aggarwal, P.; Chaudhary, A.; Singh, S.; Singh, R. G.; Govind Rao, V.		2024		
531	Int J Plant Soil Sci	Studies on Estimates of Heritability and Genetic Advance for Certain Quantitative Traits in Fieldpea (<i>Pisum Sativum</i> L. Var. Arvense)	Umesh; Singh, A. K.; Lal, K.; Singh, V.; Tripathy, S.; Kumar, A.; Singh, N.; Singh, A.	36 (7)		393–398	
532	Chemical Communications	Suzuki-Miyaura/Mizoroki-Heck Coupling Cascade to Access 2,2'-Bifunctionalized Biaryls.	Maurya, N. K.; Singh, A.; Sahu, A.; Kumar, A.; Kant, R.; Rao, V. G.; Shukla, S. K.; Kuram, M. R.				

533	Advanced Materials	Halide Perovskite Photocatalysts for Clean Fuel Production and Organic Synthesis: Opportunities and Challenges.	Singh, S.; Hamid, Z.; Babu, R.; Gómez-Graña, S.; Hu, X.; McCulloch, I.; Hoyer, R. L. Z.; Govind Rao, V.; Polavarapu, L.		2025		
534	ACS Appl Mater Interfaces	Perovskite-Molecular Photocatalyst Synergy and Surface Engineering for Superior Photocatalytic Performance.	Gupta, S.; Singh, S.; De, S.; Gautam, N.; Patel, H.; Govind Rao, V.		2025		
535	Small	Long-Lived Charge Separation Enabled by Molecular Engineering of Phenazine-Based Hole Transport Materials.	Aggarwal, P.; Chaudhary, A.; De, S.; Singh, R. G.; Govind Rao, V.		2025		
536	Chemical Communications	Dual-Locking Strategy with a Charge-Delocalizing Ligand for Stable Perovskites.	Aggarwal, P.; Patel, H.; Gupta, S.; De, S.; Govind Rao, V.		2025		
537	Resonance	A Pioneer of Experimental Research in Ultrafast Spectroscopy.	Sen, P.; Samanta, A. Kankan Bhattacharyya:	28 (11)	2024	1621–1636	
538	Journal of Physical Chemistry A	Ultrafast Intersystem Crossing in Benzanthrone: Effect of Hydrogen Bonding and Viscosity.	Bhowmik, S.; Dutta, A.; Sen, P.	128 (33)	2024	6864–6878	

539	ACS Appl Nano Mater	Enhanced Photostability of the Colloidal Ruddlesden-Popper Perovskite Nanoplate through 4-Fluorobenzylammonium Iodide-Mediated Surface Engineering for Photoluminescent Application.	Sen, A.; Sarkar, P.; Sen, P.	7 (9)	2024	10408–10418	
540	Chem Phys Lett	Triplet State Photophysics of Bis(Dimethylphenanthroline)Copper(I) Might Involve Volume-Changing Molecular Motion: Ultrafast Absorption and Emission Studies.	Dutta, A.; Bhowmik, S.; Sen, P.	839	2024	141108	
541	Chem Phys	The Shift of Excitation Spectra at Blue Edge of Emission (BEEms) as a New Methodology to Probe Heterogeneity.	Das, N.; Khan, T.; Sen, P.	577	2023	112138	
542	Journal of Physical Chemistry B	Role of Associated Water Dynamics on Protein Stability and Activity in Crowded Milieu.	Khan, T.; Halder, B.; Das, N.; Sen, P.		2024		
543	Journal of Physical Chemistry Letters	Evidence of Short-Lived High-Energy Emissive State and Triplet Character of the Self-Trapped Exciton in Cs ₃ Cu ₂ I ₅ Perovskite.	Chatterjee, S.; Mukherjee, P.; Sen, A.; Sen, P.	15 (15)	2024	4191–4196+G2	

544	Journal of Physical Chemistry B	Role of Associated Water Dynamics on Protein Stability and Activity in Crowded Milieu.	Khan, T.; Halder, B.; Das, N.; Sen, P.		2024		
545	Journal of Physical Chemistry Letters	Evidence of Short-Lived High-Energy Emissive State and Triplet Character of the Self-Trapped Exciton in Cs ₃ Cu ₂ I ₅ Perovskite.	Chatterjee, S.; Mukherjee, P.; Sen, A.; Sen, P.	15 (15)	2024	4191–4196	
546	Chem Sci	Oleylammonium Fluoride Passivated Blue-Emitting 2D CsPbBr ₃ Nanoplates with near-Unity Photoluminescence Quantum Yield: Safeguarding against Threats from External Perturbations.	Sen, A.; Dutta, A.; Bose, A. L.; Sen, P.		2024		
547	Elsevier B.V. November 1	International Journal of Biological Macromolecules.	Das, N.; Khan, T.; Halder, B.; Ghosh, S.; Sen, P.		2024		
548	Journal of Physical Chemistry B	Critical Role of Water beyond the Media to Maintain Protein Stability and Activity in Hydrated Deep Eutectic Solvent.	Khan, T.; Das, N.; Bhowmik, S.; Negi, K. S.; Sen, P.		2024		
549	PhotochemPhotobiol	Tracking Heterogenous Protein Aggregation at Nanoscale through Fluorescence Correlation Spectroscopy.	Halder, B.; Ghosh, S.; Khan, T.; Pal, S.; Das, N.; Sen, P.	100 (4)	2024	989–999	

550	Journal of Physical Chemistry A	Ultrafast Processes in Upper Excited Singlet States of Free and Caged 7-Diethylaminothiocoumarin.	Dutta, A.; Ghosh, S. K.; Mandal, S.; Srinivasan, V.; Ramamurthy, V.; Sen, P.	128 (33)	2024	6853–6863	
551	Journal of Physical Chemistry B	Synergistic Chloroform-Methanol Binary Solvent Mixture Is Inherently Spatially and Dynamically Heterogeneous.	Clovis, N. S.; Chaudhury, S.; Sen, P.		2025		
Department of Civil Engineering							
552	Biomass Conversion and Biorefinery	Plant microbial fuel cell performance assessment utilizing anode from Delonix regia fruit pod	Sonu K.;Sogani M.;Syed Z.		2025		
553	Transportation Research Record	Ultimate Load-Bearing Capacity of Rigid Two-Way Pavements Placed on Geosynthetic-Supported Soil Embankment	Manna D.;Santhoshkumar G.;Ghosh P.	2678	2024	40-55	
554	Journal of Applied Geodesy	Practical implications in the interpolation methods for constructing the regional mean sea surface model in the eastern Mediterranean Sea	Murshan M.Z.;Devaraju B.;Nagarajan B.;Dikshit O.	18	2024	483-498	

555	Journal of Engineering Mechanics	A Methodology for Imprecise Moment-Independent Global Sensitivity Analysis with Limited Data of Copula-Dependent Inputs: Application for Slopes	Kumar A.;Tiwari G.	150	2024		
556	Coral Reefs	Microstructure and growth rate variability in a giant clam (<i>Tridacna maxima</i>) from the Lakshadweep Archipelago, India: implications for their use as biological monitors to trace extreme weather events	Fousiya A.A.;Malik J.N.;Paul D.;Chakraborty S.;Achyuthan H.	43	2024	319-332	
557	Fuel	Total carbon characterization and polycyclic aromatic hydrocarbon toxicity assessment for particulate matter produced from Alcohol-Diesel blend	Sahu V.K.;Rajeev P.;Vishwakarma P.;Shukla P.C.;Gupta T.	364	2024		
558	Computers and Geotechnics	A hybrid formulation for torsional dynamic response of pile foundations in a layered soil deposits	Gupta B.K.	168	2024		

559	Journal of Sound and Vibration	An investigation of optimal sensor locations for multi-type sensors considering modeling uncertainties by Bayesian system identification	Adarsh S.;Ray-Chaudhuri S.	577	2024		
560	International Journal of Geomechanics	Seismic Stability of Circular Tunnels in Anisotropic Granular Soil with Surcharge Loading Based on the Modified Pseudodynamic Approach	Gowtham G.;Sahoo J.P.	24	2024		
561	Environmental Impact Assessment Review	A novel approach for environmental impact assessment of road construction projects in India	Chaudhary A.;Akhtar A.	106	2024		
562	Journal of Building Engineering	Assessment of pore structure of foam concrete containing slag for improved durability performance in reinforced concrete applications	Vishavkarma A.;Kizhakkumodan Venkatanarayanan H.	86	2024		
563	Atmospheric Environment	Mass and Light Absorption Properties of Atmospheric Carbonaceous Aerosols over the Outflow Regions of Indo-Gangetic Plain	Soni A.;Chatterjee A.;Saikia B.K.;Gupta T.	325	2024		
564	Journal of Materials in Civil Engineering	Development and evaluation of an indigenous natural corrosion inhibitor for steel in cementitious systems	Behera P.K.;Dobhal H.;Misra S.	36	2024		

565	Journal of Hydraulic Engineering	Coupled-ISPH framework for modeling tsunamis induced by landslides: Subaerial to submerged	Bhat N.U.H.;Pahar G.	150	2024		
566	Applied Mathematical Modelling	Consistent meta-modelling approach for a less-conservative reliability based design of shells against buckling	Majumder R.;Mishra S.K.	130	2024	327-345	
567	International Journal of Mechanics and Materials in Design	FEM-supported machine learning for residual stress and cutting force analysis in micro end milling of aluminum alloys	M. K. Sharma ., Hamzah Ali Alkhazaleh ., Shavan Askar ., Noor Hanoon Haroon ., Saman M. Almufti ., Mohammad Rustom Al Nasar .,	20	2024	1077-1098	
568	Journal of Materials in Civil Engineering	Experimental and Numerical Study on the Behavior of Small-Scaled Masonry Prisms and Beams Strengthened with ECC	Kumar S.;Rai D.C.	36	2024		
569	International Journal of Geomechanics	Evolution of Limiting Slope Face in Rock Mass Using the Stress Characteristics Method	Nandi S.;Ghosh P.	24	2024		
570	International Journal of Geomechanics	Electrokinetics in a Stone Column Encased by a Conductive Jute Geotextile: The Role of Anode Materials	Pandey B.K.;Rajesh S.;Chandra S.	24	2024		

571	Atmospheric Environment	Identifying the sources of PM _{2.5} at a COALESCE site in the Brahmaputra Valley Region using dispersion normalized PMF	Qadri A.M.;Singh G.K.;Srivastava V.;Gupta T.;Rabha S.;Islam N.;Saikia B.K.	327	2024		
572	Engineering Applications of Artificial Intelligence	A three-dimensional probabilistic fermatean neutrosophic hesitant green transportation system for the sustainable management of biomedical waste	M.K. Sharma ., Sadhna Chaudhary ., Sanjeev Kumar ., Anil K. Malik ., Apu Kumar Saha .,	133	2024		
573	Science of the Total Environment	Field evidence of brown carbon absorption enhancement linked to organic nitrogen formation in Indo-Gangetic Plain	Choudhary V.;Mandariya A.K.;Zhao R.;Gupta T.	930	2024		
574	Natural Hazards Review	Seismic Stability Analysis of Square and Rectangular Tunnels in Cohesive-Frictional Soils	Gowtham G.;Sahoo J.P.	25	2024		
575	Soil Dynamics and Earthquake Engineering	Stability analysis of circular tunnels using spatiotemporal accelerations formulated considering heterogeneity of seismic wave propagation velocities	Gowtham G.;Sahoo J.P.	181	2024		

576	ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering	Gaussian Mixture-Based Autoregressive Error Model with a Conditionally Heteroscedastic Hierarchical Framework for Bayesian Updating of Structures	Sengupta P.;Chakraborty S.;Mishra S.K.	10	2024		
577	International Journal of Geosynthetics and Ground Engineering	Performance of a Full-Height Panel MSE Wall with Pond Ash Backfill: Sensitivity Analysis and Design Recommendations	Malviya S.;Raychowdhury P.	10	2024		
578	Journal of Hydrology	A scaling-based model to describe temporal variability in soil hydraulic properties	Kumar S.;Ojha R.	636	2024		
579	Journal of Natural Remedies	A Systemic Review on Use of Medicinal Plant for Management of Male Infertility	Thakur A.;Sahu D.;Kaur K.;Singh A.;Sahu G.K.;Singh A.;Tamrakar M.;Rajgopal B.;Sharma M.	24	2024	721-736	
580	Clinical eHealth	IoMT Tsukamoto Type-2 fuzzy expert system for tuberculosis and Alzheimer's disease	M.K. Sharma ., Nitesh Dhiman ., Ajendra Sharma ., Tarun Kumar .,	7	2024	77-91	
581	Earthquake Engineering and Structural Dynamics	Seismic performance of vertical strut and lateral brace suspended continuous-plasterboard ceiling system with all edges free in the plane of ceiling	Patnana V.;Rai D.C.	53	2024	3034-3053	

582	International Journal of Applied and Computational Mathematics	Optimal Planning of the Microgrid Considering Optimal Sizing of the Energy Resources	Oriza Candra ., Oday A. Ahmed ., Laith H. Alzubaidi ., M. K. Sharma ., Carlos Rodriguez-Benites ., I. S. Mude .,	10	2024		
583	Scientific Reports	Holocene surface-rupturing paleo-earthquakes along the Kachchh Mainland Fault: shaping the seismic landscape of Kachchh, Western India	Malik J.N.;Srivastava E.;Gadhavi M.S.;Livio F.;Sharma N.;Arora S.;Parrino N.;Burrato P.;Sulli A.	14	2024		
584	Semiconductor Science and Technology	A negative capacitance field effect transistor with a modified gate stack and drain-side cavity for label-free biosensing	Kansal H.;Medury A.S.	39	2024		
585	Renewable and Sustainable Energy Reviews	Hydrogen storage systems performance and design parameters using response surface methods and sensitivity analysis	Saurabh Tiwari ., Akshay Kumar ., Nandlal Gupta ., Gaurav Tiwari ., Pratibha Sharma .,	202	2024		
586	Applied Soft Computing	Dual hesitant fuzzy set in multi-objective transportation problems in time sequence frame work	M.K. Sharma ., Sadhna Chaudhary .,	161	2024		
587	Experimental Astronomy	The proposed plan of geodetic VLBI in India serving national and global objectives	Dhar S.;Mammadaliyev N.;Heinkelmann R.;Glaser S.;Raut S.;Laha A.;Tiwari A.;Schuh H.;Dikshit O.;Balasubramanian N.	57	2024		

588	Catalysis Today	Manganese-substituted strontium ferrite catalyst on honeycomb structured cordierite support for oxidation of diesel particulate matter	Khobragade R.;Saravanan G.;Shukla P.C.;Gupta T.;Agarwal A.;Labhsetwar N.	440	2024		
589	Measurement: Journal of the International Measurement Confederation	Design and development of an occlusion-free surface profile measurement device	Jain S.;Venkatesh K.S.;Das A.	235	2024		
590	Geotextiles and Geomembranes	Large-scale experimental and ANN modeling for dynamic interaction between vibrating and statically loaded foundations on geogrid-reinforced soil beds	Das G.;Ghosh P.	52	2024	956-974	
591	Journal of Engineering Mechanics	Curvilinear Slope Profile-Based Seismic Stability for Rock Slopes Using Stress Characteristics Method and Generalized Hoek-Brown Criterion	Nandi S.;Ghosh P.	150	2024		
592	International Journal of Non-Linear Mechanics	A reliability-based design against post-buckling load drop in spherical shell cap with stochastic imperfections	Majumder R.;Mishra S.K.;Chakraborty S.	165	2024		
593	Physica A: Statistical Mechanics and its Applications	Investigation of longitudinal dynamics of vehicles in disordered traffic	Kashyap N R M.;Asaithambi G.;Treiber M.;Kanagaraj V.	646	2024		

594	International Journal of Geosynthetics and Ground Engineering	Multi-model Investigation on Dynamic Response of Machine Foundations Resting on Geogrid Reinforced Foundation Bed	Das G.;Ghosh P.	10	2024		
595	Energy for Sustainable Development	Assessment of a clean cooking fuel distribution scheme in rural households of India – “Pradhan Mantri Ujjwala Yojana (PMUY)”	Sahu V.;Tripathi S.N.;Sutaria R.;Dumka N.;Kotwal A.;Ghosh K.;Singh R.K.	81	2024		
596	Environmental Research Letters	A quantitative framework for characterizing the current and obtaining a future sustainable agricultural production mix meeting environmental, nutritional, and economic goals	Chaudhary A.;Krishna V.	19	2024		
597	Nature Communications	Inter-continental variability in the relationship of oxidative potential and cytotoxicity with PM _{2.5} mass	Salana S.;Yu H.;Dai Z.;Subramanian P.S.G.;Puthussery J.V.;Wang Y.;Singh A.;Pope F.D.;Leiva G M.A.;Rastogi N.;Tripathi S.N.;Weber R.J.;Verma V.	15	2024		
598	Advances in Water Resources	Macroscopic modeling of urban flood inundation through areal-averaged Shallow-Water-Equations	Kumar A.;Pahar G.	190	2024		

599	Ocean Engineering	Response of piled raft foundations using the disturbed state concept theory: Analysis and interpretation	Sengupta I.;Patra N.R.;Rajesh S.	309	2024		
600	International Journal of Pressure Vessels and Piping	Guided analysis of fracture toughness and hydrogen-induced embrittlement crack growth rate in quenched-and-tempered steels using machine learning	Sulieaman Ibraheem Shelash Al-Hawary ., Arif Sari ., Shavan Askar ., Harikumar Pallathadka ., Renas Rajab Asaad ., M.K. Sharma .,	210	2024		
601	Journal of the Geological Society of India	Appraisal of Active Tectonics: An Insight from the Morphotectonic Study of Drainage Basins and OSL Dating in the Kangra Area, Himachal Pradesh	Sharma R.;Singh Y.;Rajwant ;Singh N.;Malik J.N.;Dhali M.;Srivastava E.;Sharma N.	100	2024	996-1006	
602	International Journal of Civil Engineering	Dynamic Performance Evaluation of Machine Foundations Using Multi-approach Investigation	Das G.;Surapreddi S.;Ghosh P.	22	2024	1977-1994	
603	Soil Dynamics and Earthquake Engineering	Development, characterization, and seismic application of a shape memory alloy-based self-centering damper	Karmakar S.;Kumar A.;Kolay C.	183	2024		

604	Journal of Geophysical Research: Atmospheres	Drivers of PM _{2.5} Episodes and Exceedance in India: A Synthesis From the COALESCE Network	Venkataraman C.;Anand A.;Maji S.;Barman N.;Tiwari D.;Muduchuru K.;Sharma A.;Gupta G.;Bhardwaj A.;Haswani D.;Pullokaran D.;Yadav K.;Sunder Raman R.;Imran M.;Habib G.;Kapoor T.S.;Anurag G.;Sharma R.;Phuleria H.C.;Qadri A.M.;Singh G.K.;Gupta T.;Dhandapani A.;Kumar R.N.;Mukherjee S.;Chatterjee A.;Rabha S.;Saikia B.K.;Saikia P.;Ganguly D.;Chaudhary P.;Sinha B.;Roy	129	2024		
605	Computers and Geotechnics	A convex modelling based reliability analysis of rock structures with limited data of inputs modelled via alternative uncertainty models: Application for rock slopes	Maurya S.;Tiwari G.	175	2024		
606	Applied Mathematical Modelling	Flutter in functionally graded conical shell under follower force	Chatterjee R.;Mishra S.K.	136	2024		

607	International Journal of Rock Mechanics and Mining Sciences	Reliability analysis of deep tunnels in spatially varying brittle rocks using interval and random field modelling	Kumar A.;Maurya S.;Tiwari G.	181	2024		
608	Journal of Engineering Mechanics	Fisher Information-Based Optimal Sensor Locations for Structural Identification of Nonclassically Damped Systems	Ghosh D.;Mukhopadhyay S.	150	2024		
609	Geophysical Research Letters	Spatiotemporal Characteristics and Physical Drivers of Heatwaves in India	Dar J.A.;Apuv T.	51	2024		
610	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Complete wheeled mobile robot for a variable parameter linear system with a robust predictive control	Mostafa Jalalnezhad ., Carlos Rodriguez-Benites ., Neha Biju ., M. K. Sharma .,	46	2024		
611	Journal of Gene Medicine	New paradigms to break barriers in early cancer detection for improved prognosis and treatment outcomes	Irfan Ahmad ., Saade Abdalkareem Jasim ., M. K. Sharma ., Renuka Jyothi S ., Ahmed Hjazi ., Jaafaru Sani Mohammed ., Aashna Sinha ., Ahmed Hussein Zwamel ., Hamza Fadhel Hamzah ., Bahira Abdulrazzaq Mohammed .,	26	2024		

612	Earth, Planets and Space	Combining evolutionary computation with machine learning technique for improved short-term prediction of UT1-UTC and length-of-day	Dhar S.;Heinkelmann R.;Belda S.;Modiri S.;Schuh H.;Guessoum S.;Ferrándiz J.M.;Balasubramanian N.;Dikshit O.	76	2024		
613	International Journal of Geosynthetics and Ground Engineering	Assessment of Combined Effects of Lignosulfonate and Fly ash in Enhancing the Geotechnical Characteristics of Swelling Clays	Mudliar R.;Rajesh S.	10	2024		
614	Journal of Cleaner Production	Integrated approach for sustainability assessment and reporting for civil infrastructures projects: Delivering the UN SDGs	Srivastava S.;Iyer-Raniga U.;Misra S.	459	2024		
615	Applied Physics A: Materials Science and Processing	A FEM-guided data-driven machine learning model for residual stress characterization in ultrasonic surface rolling of lightweight alloys	Rahul Pradhan ., Farag M. A. Altalbawy ., Ahmed Raza Khan ., Carlos Rodriguez-Benites ., M. K. Sharma ., Renas Rajab Asaad .,	130	2024		
616	Journal of Thermal Spray Technology	Enhancing Mechanical Behavior Assessment in Porous Thermal Barrier Coatings using a Machine Learning Fine-Tuned with Genetic Algorithm	Ahmed A. H. Alkurdi ., Hani K. Al-Mohair ., Paul Rodrigues ., Marwa Alazzawi ., M. K. Sharma ., Atheer Y. Oudah .,	33	2024	824-838	

617	International Journal of Geomechanics	Seismic Vibration Control of Retaining Walls Using a Compliant-Tuned Liquid Damper	Choudhury A.;Ghosh P.;Mishra S.K.;Pandey D.K.	24	2024		
618	Iranian Journal of Science and Technology - Transactions of Civil Engineering	Compaction in Lab-Scale Experimental Studies of Earthen Embankment Breaching	Shikha Chourasiya ., Shivam Tripathi ., P. K. Mohapatra .,	48	2024	4819-4826	
619	Journal of Water and Climate Change	Differences in sum-of-hourly and daily reference evapotranspiration for a rice–wheat cropping system in Ganga Basin, India	Yetbarek E.;Vashishth N.;Ojha R.	15	2024	2845-2862	
620	Systems and Soft Computing	Dynamic ranking function to optimize transshipment costs in intuitionistic Type-2 and Type-1 fuzzy environments	Tarun Kumar ., Sadhna Chaudhary ., Kapil Kumar ., Kailash Dhanuk ., M.K. Sharma .,	6	2024		
621	Thin-Walled Structures	Reliability consistent knockdown factors for truncated conical shells via artificial neural network (ANN) based predictions and meta-modelling	Majumder R.;Mishra S.K.	205	2024		

622	Structures	A re-sampling statistics based imprecise moment independent global sensitivity analysis methodology with limited data of uncorrelated and correlated geotechnical properties	Kumar A.;Tiwari G.	70	2024		
623	Journal of Geotechnical and Geoenvironmental Engineering	Near-Field and Far-Field Ground-Borne Vibration Mitigation Using Bamboo-Filled Wave Barriers	Surapreddi S.;Ghosh P.	150	2024		
624	Systems and Soft Computing	Fuzzy hybrid approach for advanced teaching learning technique with particle swarm optimization in the diagnostic of dengue disease	Nivedita ;Garg R.;Agrawal S.;Sharma A.;Sharma M.K.	6	2024		
625	Physics of Plasmas	Multi-resonance terahertz (THz) generation from magnetized cylindrical and spherical nanoclusters of AlAs and InP nanoparticles	Manendra ;Sharma M.K.;Gautam Y.K.;Jewariya M.;Malik A.K.	31	2024		
626	Journal of Geodesy	Assessing tropospheric turbulence impact on VGOS telescope placement in the Indian subcontinent for the estimation of earth orientation parameters	Laha A.;Böhm J.;Böhm S.;Schartner M.;Krásná H.;Balasubramanian N.;Dikshit O.	98	2024		

627	Biochemical and Biophysical Research Communications	Biochemical and steady-state kinetic analyses of arsenate reductases from an arsenic-tolerant strain of Citrobacter youngae IITK SM2	Verma A.;Chinnasamy H.V.;Biswas B.;Singh A.;Matheshwaran S.	739	2024		
628	BMJ open	Health effects of selected environmental Exposomes Across the Life course in Indian populations using longitudinal cohort studies: GEOHealth HEALS Study protocol	Prabhakaran D.;Sieber N.L.;Jaganathan S.;Mandal S.;Prabhakaran P.;Walia G.K.K.;Menon J.S.;Rajput P.;Gupta T.;Mohan S.;Kondal D.;Rajiva A.;Dutta A.;Krishna B.;Yajnik C.;Mohan D.;Ganguly E.;Madhipatla K.;Sharma P.;Singh S.;Gupta R.;Ljungman P.;Gupta V.;Mohan V.;Reddy K.S.;Schwartz J.D.	14	2024	e087445	
629	Results in Control and Optimization	A review of fuzzy logic analysis in COVID-19 pandemic and a new technique through extended hexagonal intuitionistic fuzzy number in analysis of COVID-19	Rathour L.;Singh V.;Sharma M.K.;Dhiman N.;Mishra V.N.	17	2024		

630	Sigma Journal of Engineering and Natural Sciences	Modified genetic algorithm with novel crossover and mutation operator for travelling salesman problem	Sharma M.K.;Chaudhary S.;Rathour L.;Mishra V.N.	42	2024	1876-1883	
631	International Journal of Geomechanics	Efficacy of Utilizing Stress-Dependent SWRC in the Analysis of a Footing Resting on an Unsaturated Soil Slope	Jadar C.M.;Rajesh S.	24	2024		
632	Discover Atmosphere	Intra-annual variations in isotopic composition of atmospheric water vapour in a semi-arid monsoon region: observations and inferences	Gopal Krishan, Mavidnam Someshwar Rao, Baljinder Singh, Swetha Vasanth Damodar Sivapreeetha, Pankaj Kumar Thakur, Pravesh Singh, Sahir Azam Shad, Richa Ojha, Rajesh Srivastava, Shivam Tripathi and Saumyen Guha		2024		
633	Indian Geotechnical Journal	Numerical Analysis of Combined Helical Pile Raft Foundation (CHPRF) Under Compressive and Tensile Loadings	Ghosh P.;Garg S.;Saha Roy S.	55	2025	45675	
634	Geomechanics and Geoengineering	Torsion of end-bearing pile foundations in layered anisotropic geomaterials	Gupta B.K.	20	2025	328-344	

635	Air Quality, Atmosphere and Health	Real-time IAQ assessment inside an Indian temple and evaluation of associated health risks to three different exposure groups through inhalation	Ola D.;Jain S.;Goel A.;Choudhary O.	18	2025	343-359	
636	Computers and Geotechnics	Torsional dynamic response of rigid footings and pile foundations for various end-conditions	Gupta B.K.	177	2025		
637	Renewable and Sustainable Energy Reviews	An efficient uncertainty analysis of performance of hydrogen storage systems	Tiwari S.;Kumar A.;Tiwari G.;Sharma P.	209	2025		
638	Computers and Geotechnics	An Imprecise Hybrid Reliability Methodology for Rock Structures Considering Spatial Variations of Inputs with Mixed Uncertainties: Theory and Application	Maurya S.;Kumar A.;Tiwari G.	178	2025		
639	Tectonophysics	Heterogeneous Seasonal Deformation and Strain Budget in Himachal, NW Himalaya from new cGPS measurements: Hydrological and Seismic Hazard Implications	Kumar P.;Malik J.N.;Gahalaut V.K.	894	2025		

640	Remote Sensing in Earth Systems Sciences	Bayesian Neural Networks for Satellite Fog Detection: Quantifying Epistemic and Aleatoric Uncertainties	Deshpande P.;Tripathi S.;Bhattacharya A.	8	2025	232-250	
641	Transportation Infrastructure Geotechnology	Numerical Investigation of Critical Velocity of Embedded Rail System Considering Different Depths of Bedrock	Mishra U.;Sawant V.A.;Sahoo J.P.	12	2025		
642	Granular Matter	Viscoplastic modelling of rate-dependent pile penetration in crushable sand	Das S.K.;Das A.	27	2025		
643	Engineering Geology	Seismic demand amplification in earth dam by dynamic dam-reservoir interactions (DRI) under near fault pulse type ground motions	Choudhury A.;Mishra S.K.;Ghosh P.	344	2025		
644	Journal of Materials in Civil Engineering	Mitigation of the Swelling Behavior of Expansive Soils Using Hydrophobic Lignosulfonate: Adsorption Mechanism	Mudliar R.;Rajesh S.	37	2025		
645	International Journal of Geomechanics	Monitoring Performance Indicators during Electrokinetic Treatment	Pandey B.K.;Rajesh S.	25	2025		

646	Experimental Cell Research	Exploring the role of exosomal lncRNA in cancer immunopathogenesis: Unraveling the immune response and EMT pathways	Alhajlah S.;Jasim S.A.;Altalbawy F.M.A.;Bansal P.;Kaur H.;Mohammed J.S.;Fenjan M.N.;Edan R.T.;Sharma M.K.;Zwamel A.H.	445	2025		
647	Advances in Space Research	Evaluation of VGOS and legacy S/X VLBI observations with non-tidal loading corrections	Singh S.;Böhm J.;Krásná H.;Balasubramanian N.;Dikshit O.		2025		
648	International Journal of Geomechanics	A Hybrid Second Order Exponential Cone Programming Based Lower Bound Finite Element Limit Analysis Framework for Rock Tunnels in Anisotropic Rock Masses	Sahu S, Sahoo JP, Tiwari G		2025		
649	International Journal of Geomechanics	Railway Bridge End-Approach Zone under a Moving Load: Numerical Assessment from a Geotechnical Perspective	Bagchi A.;Raychowdhury P.	25	2025		
650	Environmental Monitoring and Assessment	Optimization of protocol for analysis of dicarboxylic acids in ambient aerosol samples using GC–MS: method comparison and application	Vishwakarma P.;Nigam P.;Gupta T.	197	2025		

651	Meteoritics and Planetary Science	Revised chronology and expanded insights: Geologic perspective on the Luna impact event and its influence on the Harappan Civilization	Indu G.K.;James S.;Sathyan S.;Aswathi J.;Rani V.R.;Nair V.M.;Varghese L.M.;Sajinkumar K.S.;Sharma N.;Dhali M.;Anand A.;Rajesh V.J.;Praveen M.N.;Chavan A.;Bhandari S.;Malik J.N.	60	2025	422-441	
652	International Journal of Geomechanics	The Effect of High Temperature Treatment on the Mechanical Behavior of Rocklike Samples with Varying Joint Infill Conditions under Different Strain Rates	Kumar S.;Tiware G.;Das A.	25	2025		
653	Marine Georesources and Geotechnology	An analytical shear modulus degradation model for carbonate sand supporting marine geostructures	Saqib M.;Das A.;Patra N.R.		2025		
654	Results in Engineering	Novel Pythagorean fuzzy score function to optimize fuzzy transportation models	Ritu ;Kumar T.;Jahnvi ;Kumar K.;Dhiman N.;Sharma M.K.	25	2025		
655	Nondestructive Testing and Evaluation	Optimising solder joint inspection in printed circuit boards through X-ray imaging and machine learning integration	Sayed B.T.;Alkhazaleh H.A.;Rodrigues P.;Askar S.;Sharma M.K.;Almufti S.M.		2025		

656	Mechanical Systems and Signal Processing	Truncated unscented Kalman filter for state-parameter estimation and damage assessment of non-linear hysteretic systems with degradation and pinching	Kundu A.;Mukhopadhyay S.	226	2025		
657	Rock Mechanics and Rock Engineering	Dynamic Response of Grouted Jointed Rock Mass to Cyclic Loading Under Extreme Temperature Conditions	Mathur G.K.;Jha A.K.;Tiwari G.;Singh T.N.		2025		
658	Indian Chemical Engineer	Optimal renewable energy sources selection using multicriteria decision making-TOPSIS approach in Indian condition	Murtaja M.;Bajpai S.;Sharma M.K.		2025		
659	Environmental Science and Pollution Research	Seasonal trends and sources of dicarboxylic acids in fine aerosol over the Brahmaputra valley, North-East India	Vishwakarma P.;Saikia B.K.;Gupta T.		2025		
660	Analog Integrated Circuits and Signal Processing	Temperature dependence of analog/RF performance, linearity and harmonic distortion figures of merit in negative capacitance quad-FinFET	Vanlalawmpuia K.;Medury A.S.	122	2025		

661	Indian Geotechnical Journal	Comparison of Mitigation Methods for Rail-driven Ground-borne Vibrations	Mishra U.;Sawant V.A.;Sahoo J.P.		2025		
662	IEEE Transactions on Intelligent Transportation Systems	Advancing LiDAR Intensity Simulation Through Learning With Novel Physics-Based Modalities	Anand V.;Lohani B.;Pandey G.;Mishra R.		2025		
663	Bulletin of Engineering Geology and the Environment	Assessing Fracture Mechanics in Thermally Treated Uniaxial Loaded Grouted Non-Persistent Medium-Hard Rock: A Digital Image Correlation and FracPaQ Analysis	Mathur G; Jha A; Tiwari G		2025		
664	Construction Management and Economics	Integrating 'Difficulty in management' as a decision-making criterion in the risk assessment of PPP infrastructure projects	Gupta T.;Kothari C.;Misra S.		2025		
665	Environmental Fluid Mechanics	Smoothed particle hydrodynamics (SPH) investigation of two-dimensional dam break flows	Manoj Kumar Diwakar ., Pranab Kumar Mohapatra ., Shivam Tripathi .,	25	2025		
666	Journal of Vibration Engineering and Technologies	Novel Optimization Approach to Control the Nonlinear Vibrations of a Real Time Balancer System Under Unknown Disturbances	Chaudhary A.;Bhushan B.	13	2025		

667	Journal of Vibration Engineering and Technologies	Innovative Control Framework for Nonlinear Vibrations of a Balancer System Through Hybrid FPID Controller	Chaudhary A.	13	2025		
668	Surfaces and Interfaces	Upcycling ambient particulate matter pollutants into high-performance carbon nanomaterials for electrochemical energy storage and oxygen evolution catalysis	Islam N.;Bora D.;Bora M.;Sarmah D.;Attry B.;Saha B.;Gupta T.;Saikia B.K.	61	2025		
669	Journal of Vibration Engineering and Technologies	Stabilizing a Nonlinear Helicopter Model: Advanced Hybrid Optimization Technique for Controlled Rotor Dynamics and Vibration Minimization Under External Disturbances	Chaudhary A.;Pillai R.;Upadhyaya S.;Kaushik G.	13	2025		
670	Engineering Geology	Dynamic Behaviour of Un-grouted and Grouted Jointed Samples of a Brittle Rock in Split Hopkinson Pressure Bar Tests: Insights from Experiments and DEM Modelling	Lawankar S, Kumar S, Bhardwaj P, Tiwari G, Deshpande V		2025		
671	GIScience and Remote Sensing	A hybrid approach for enhanced tree volume estimation of complex trees using terrestrial LiDAR	Ali M.;Lohani B.;Hollaus M.;Pfeifer N.	62	2025		

672	European Journal of Environmental and Civil Engineering	Analysis of pile set-up considering the incorporation of non-Darcian flow model in radial consolidation	Ahmed S.;Patra N.R.		2025		
673	Rock Mechanics and Rock Engineering	Reliability Analysis via Non-Probabilistic Multi-Dimensional Convex Modelling of Spatially Varying and Data-Deficient Rock Properties: Theory and Generalization	Maurya S, Tiwari G		2025		
674	Road Materials and Pavement Design	Micro-mechanical and environmental assessment of jarosite waste and limestone powder-treated clay soil for embankment applications	Bhatt R.;Patra N.R.		2025		
675	International Journal of Pavement Engineering	A revisit to angularity measurement for aggregates	Jain S.;Venkatesh K.S.;Das A.	25(1)	2024		
676	Acta Geotechnica	Numerical modeling of pile embedded in crushable sand subjected to earthquake loading	M Saqib, A Das, NR Patra	19	2024	3401-3422	
677	Engineering Structures	A concurrent multi-scale framework for performance assessment of moment resisting reinforced concrete frame	Mishra O.,Roy Chowdhury A. N. , Haldar P.	330	2025	119949	
678	Indian Geotechnical Journal	Seismic Performance Assessment of Ash-Filled MSE Walls	S Malviya, P Raychowdhury	54	2024	1924-1932	

679	International Journal of Geomechanics	Electrokinetics in a Stone Column Encased by a Conductive Jute Geotextile: The Role of Anode Materials	BK Pandey, S Rajesh, S Chandra	24	2024		
680	International Journal of Geomechanics	Cyclic Simple Shear Response of Coral Sand under the Dual Effects of Isotropic Confinement and Normal Stress	M Saqib, A Das, NR Patra	25	2025		
681	Géotechnique Letters	Strain rate-dependent undrained response of a coral sand	M Saqib, SK Das, A Das	15	2025		
682	Computers and Geotechnics	Microstructural behaviour of soft-rigid granular mixes under compressive loads: DEM study using coherent contact model	M Alam, A Das, MM Disfani	175	2024		
683	International Journal for Numerical and Analytical Methods in Geomechanics	Optimization-based pore network modeling approach for determination of hydraulic conductivity function of granular soils	S Mufti, A Das		2024		
684	Journal of Rock Mechanics and Geotechnical Engineering	Experimental Study on Effect of Grouting and High Temperature on the Anisotropic Compressive Strength Behaviour of Soft Jointed Rocks with an Impersistent Flaw	GK Mathur, AK Jha, G Tiwari, TN Singh		2024		

685		Discussion on “Stability of slopes in partially saturated soils: Incorporating the combined effects of seismic forces and pore water pressure” by Liu et al., Soil dynamics and ...	M Kumar, JP Sahoo				
686	Acta Geotechnica	Backfill-geogrid interaction: insights from pullout tests and numerical simulation	H Verma, PN Mishra, B Manna, D Williams		2025		
687	International Journal of Geomechanics	Statistical and Probabilistic Insights into the Internal Stability of an MSE Wall	H Verma, PN Mishra, B Manna, D Williams		2024		
688	Measurement	A flow through coaxial cell to investigate high frequency broadband complex permittivity: Design, calibration and validation	T Bore, G Yan, PN Mishra, T Brierre		2024		
689	ISH Journal of Hydraulic Engineering	Assessing hydrological changes in the Ganga River with the range of variability approach	M Mohanty, V Tare	30	2024		
690	Water Supply	Hydromorphological shifts in the Yamuna River: Post-barrage impacts and water management implications	M Mohanty, V Tare	24	2024		

691	JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT	Expression of Concern for" Anthropogenic Interventions in Watersheds on River Flow Health: Assessment Using Bootstrapped Principal Component Analysis"(vol 150, 10.1061/(ASCE ...	M Mohanty, V Tare	150	2024		
692	Antimicrobial Agents and Chemotherapy	Phenotypic amikacin resistance may not indicate poor response to amikacin in Mycobacterium avium complex pulmonary disease	LM Minuk, SK Brode, M Mehrabi, MK Sharma	68	2024		
693	Physics of Particles and Nuclei Letters	Gamma Decay Hindrance Factors Used in Systematic Configuration Assignments	YP Singh, V Kumar, A Shukla, MK Sharma	21	2024		
694	Journal of Advances in Biology & Biotechnology	Enhancing Broiler Growth: Effects of Moringa oleifera Leaf Extract and Indigenous Cow Urine Supplementation	B Debbarma, S Tripathi, C Arjun, S Netty, T Jain	28	2025		
695	Journal of Advances in Biology & Biotechnology	Study of Hematobiochemical, Immune Status and Oxidative Parameters in Ross AP Strain Broiler Birds Based on Supplementation of Moringa oleifera and Indigenous Cow Urine ...	B Debbarma, S Tripathi, C Arjun, S Netty, T Jain	28	2025		

696	International Journal of Precision Engineering and Manufacturing-Green Technology	Comprehensive Analysis of Heavy Metal Aerosol Emissions and Health Risk from the Electrical Discharge Machining Process: A Control and Mitigation Approach for Green Manufacturing	GA Gupta, M Singh, J Ramkumar, T Gupta, S Patil	16	2024		
697	ACS ES&T Engineering	Review of Current and Future Indoor Air Purifying Technologies	S Singh, P Vishwakarma, T Gupta	4	2024		
698	ISEE Conference Abstracts	GEOHealth Health Effects of Selected Environmental Exposomes Across the Life Course (HEALS)-India	Dorairaj Prabhakaran, Nancy Long Sieber, Suganthi Jaganathan, Siddhartha Mandal, Poornima Prabhakaran, Gagandeep Kaur Walia, Jyothi S Menon, Prashant Rajput, Tarun Gupta, Sailesh Mohan, Dimple Kondal, Ajit Rajiva, Anubhuti Dutta, Bhargav Krishna, Chittaranjan Yajnik, Deepa Mohan, Enakshi Ganguly, Kishore Madhipatla, Praggya Sharma, Sonal Singh, Ruby Gupta, Vipin Gupta, Viswanathan Mohan, K Srinath Reddy, Joel	2024	2024		

699	ISEE Conference Abstracts	Chemical Speciation of Ambient PM _{2.5} From Indian Seven Cities: GEOHealth HEALS Analytical Protocol	Prashant Rajput, Anubhuti Dutta, Rani Komal Lata, Sonal Singh, Deepa Mohan, Jyothi Menon, Suganthi Jaganathan, Siddhartha Mandal, Poornima Prabhakaran, Gagandeep Kaur Walia, Ruby Gupta, Sailesh Mohan, Chittaranjan Yajnik, Enakshi Ganguly, Vipin Gupta, Viswanathan Mohan, K Srinath Reddy, Joel Schwartz, Tarun Gupta, Dorairaj Prabhakaran		2024		
700	Langmuir	Impact of Manganese Carbonate Precipitation on Uranium (VI) Fate in Conditions Relevant to Carbonate-Buffered Aquifers	S Sujathan, TG Gopakumar, A Singh	41	2024		
701	Water	Transient Flow Dynamics in Tesla Valve Configurations: Insights from Computational Fluid Dynamics Simulations	M Zeidan, M Németh, GR Abhijith, R Wéber, A Ostfeld	16	2024		

702	Engineering Proceedings	Physics-Informed Machine Learning for Universal Surrogate Modelling of Water Quality Parameters in Water Distribution Networks	I Daniel, GR Abhijith, JN Kutz, A Ostfeld, A Cominola	69	2024		
703	Engineering Proceedings	Towards Optimal Scheduling of Intermittent Water Supply Systems Incorporating Consumer Behavior	SP Boindala, GR Abhijith, K Ihjas, A Ostfeld	69	2024		
704	Engineering Proceedings	Predicting Contamination Spreading in Water Distribution Networks	R Wéber, L Sándor, Á Horváth, G Barakka, GR Abhijith	69	2024		
705	Engineering Proceedings	Backup Design Optimization for Water Distribution Networks	R Wéber, T Tuyakbayev, GR Abhijith, E Salomons	15	2024		
706	Journal of Pipeline Systems Engineering and Practice	Discussion of “Analysis of Intermittent Water Distribution Networks Using a Dummy Emitter Device at Each Demand Node”	GR Abhijith, S Mohan				

707	CABI One Health	An integrated inventory of One Health tools: Mapping and analysis of globally available tools to advance One Health	Casey Barton Behravesh, Dominique F Charron, Amanda Liew, Natalia Cediél Becerra, Catherine Machalaba, David TS Hayman, Janice R Ciacchi Zanella, Elmoubasher Farag, Abhishek Chaudhary, Hayley Belles, Wiku B Adisasmito, Salama Almuhairi, Pépé Bilivogui, Salome A Bukachi, Natalia Casas, Andrew A Cunningham, Nitish Debnath, Osman Dar, Baptiste Dungu, George F Gao, Margaret Khaitisa, Marion PG Koopmans, John S Mackenzie, Serge	3	2024		
708	Frontiers in Conservation Science	Global wildlife trade and trafficking contribute to the world's nonhuman primate conservation crisis	Paul A. Garber, Alejandro Estrada, Sam Shanee, Magdalena S Svensson, Luis D. Verde Arregoitia, Vincent Nijman, Noga Shanee, Sidney Feitosa Gouveia, K. Anne Isola Nekaris Abhishek Chaudhary, Jú Lio Cé Sar Bicca-Marques, Malene Friis Hansen		2024		

709	IEEE Transactions on Geoscience and Remote Sensing	GreenSegNet: A Novel Deep Learning Architecture for Urban Vegetation Segmentation from MLS Data	A Aditya, B Lohani, J Aryal, S Winter		2024		
710	Journal of the Indian Society of Remote Sensing	Role of Simulated Lidar Data for Training 3D Deep Learning Models: An Exhaustive Analysis	B Lohani, P Khan, V Kumar, S Gupta	52	2024		
711	Earth Science Informatics	Powerline extraction from aerial and mobile LiDAR data using deep learning	V Kumar, A Nandy, V Soni, B Lohani	17	2024		
712	Journal of the Indian Society of Remote Sensing	Characterization of rainfall/cloud signature using fully polarimetric X-Band SAR data	Malik R.; Mohanty S.; Indu J.; Dikshit O.; Rathore V. S.	52	2024	2675-2690	
713	IEEE Geoscience and Remote Sensing Letters	Model-based nine-component scattering matrix power decomposition	Malik R.; Singh G.; Dikshit O.; Yamaguchi Y.	21	2024		
714	Current Science	National geospatial policy: present status and a way forward towards unambiguous and consistent geodetic positioning in India	Goyal R.; Kushwaha R.; Dikshit O.	127(2)	2024	147-152	
715	Current Science	National Geospatial Policy: Perspectives on height systems, vertical datums, and gravimetric geoid modelling in India.	Goyal R.; Dikshit O.	126(3)	2025	309-319	

716	Science of The Total Environment	Fugitive road dust particulate matter emission inventory for India: A field campaign in 32 Indian cities.	Katiyar A, Nayak DK, Nagar PK, Singh D, Sharma M, Kota SH	912	2024	169232	
717	Science of The Total Environment	A district-level emission inventory of anthropogenic PM _{2.5} from the primary sources over the Indian Indo Gangetic Plain: Identification of the emission hotspots	Ghosh A, Nagar PK, Maddhesia J, Sharma M, Azmi S, Singh B, Dutta M	914	2024	169865	
718	Chemosphere	Acidity and oxidative potential of atmospheric aerosols over a remote mangrove ecosystem during the advection of anthropogenic plumes.	Ghosh A, Dutta M, Das S K, Sharma M, Chatterjee A.	352	2024	141316	
719	Journal of Environmental Sciences	India leads in emission intensity per GDP: Insights from the gridded emission inventory for residential, road transport, and energy sectors	Velamuri, V., Nayak, D.S., Sharma, S., Parmar, P.S., Nagar, P.K., Singh, D., Sharma, M., Kota, S.H., et al.	In Press	2024		
720	Atmospheric Measurement Techniques	Hybrid instrument network optimization for air quality monitoring	Nishant Ajnoti, Hemant Gehlot, and Sachchida Nand Tripathi	17	2024	1651–1664	
721	Atmospheric Pollution Research	Role of sources of NMVOCs in O ₃ , OH reactivity, and secondary organic aerosol formation over Delhi	Pooja Yadav , Shyam Lal, Sachchida Nand Tripathi , Vaisali Jain , Tuhin Kumar Mandal	15	2024		

722	Atmospheric Chemistry and Physics	Variation in chemical composition and volatility of oxygenated organic aerosol in different rural, urban, and mountain environments	Wei Huang, Cheng Wu, Linyu Gao, Yvette Gramlich, Sophie L. Haslett, Joel Thornton, Felipe D. Lopez-Hilfiker, Ben H. Lee, Junwei Song, Harald Saathoff, Xiaoli Shen, Ramakrishna Ramisetty, Sachchi da N. Tripathi, Dilip Ganguly, Feng Jiang, Magdalena Vallon, Siegfried Schobesberger, Taina Yli-Juuti, and Claudia Mohr	24	2024	2607–2624	
723	Science of The Total Environment	Summertime oxidative potential of atmospheric PM2.5 over New Delhi: Effect of aerosol ageing	P.K. Verma , M. Devaprasad , J. Dave , R. Meena , H. Bhowmik , S.N. Tripathi , N. Rastogi	920	2024		
724	nature communications	Local incomplete combustion emissions define the PM2.5 oxidative potential in Northern India	Bhattu, D., S. N. Tripathi, Bhowmik, H.S., et al	15	2024		

725	ACS Environmental Science & Technology Air	Elemental Characterization of Ambient Particulate Matter for a Globally Distributed Monitoring Network: Methodology and Implications	Liu, X., Turner, J.R., Oxford, C.R., McNeill, J., Walsh, B., Roy, E.L., Weagle, C.L., Stone, E., Zhu, H., Liu, W., Wei, Z., Hyslop, N.P., Giacomo, J., Dillner, A.M., Salam, A., Hossen, A., S. N. Tripathi et al	1	2024	283–293	
726	Environmental Research Letters	Air pollution from biomass burning in India	Tripathi, S.N., Yadav, S. and Sharma K	19	2024		
727	Atmospheric Environment	Reactive oxygen species generation from winter water-soluble organic aerosols in Delhi's PM2.5, Atmospheric Environment	Bhowmik, H.S., S.N. Tripathi, Joseph V. Puthussery, Vishal Verma, Jay Dave and Neeraj Rastogi	22	2024		
728	nature communications	Inter-continental variability in the relationship of oxidative potential and cytotoxicity with PM2.5 mass	Salana, S., Yu, H., Dai, Z., Subramanian, P.S.G., Puthussery, J.V., Wang, Y., Singh, A., Pope, F.D., Manuel Lieva-Guzmán, Rastogi, N., S.N. Tripathi, et al	15	2024		
729	IEEE Trans Neural Netw Learn Syst.	Leveraging unsupervised data and domain adaptation for deep regression in low-cost sensor calibration	Dey S, Arora V, Nand Tripathi S.	36(4)	2025	7277-7286	

730	Energy for Sustainable Development	Assessment of a clean cooking fuel distribution scheme in rural households of India – “Pradhan Mantri Ujjwala Yojana (PMUY)”	Veerendra Sahu , Sachchida Nand Tripathi , Ronak Sutaria , Neha Dumka , Atul Kotwal , Kunal Ghosh , Ritesh Kumar Singh	81	2024		
731	International Journal of Multiphase Flow	Drop breakup in bag regime under the impulsive condition	Sidyant Kumar, Sudama, S.N. Tripathi and Sanjay Kumar	181	2024		
732	Atmospheric Environment	A hybrid approach for integrating micro-satellite images and sensors network-based ground measurements using deep learning for high-resolution prediction of fine particulate matter (PM2.5) over an Indian city, Lucknow	Vaishali Jain , Avidheep Mukherjee , Soumya Banerjee , Sandeep Madhwal , Michael H. Bergin , Prakash Bhawe , David Carlson , Ziyang Jiang , Tongshu Zheng , Piyush Rai , Sachchida Nand Tripathi	338	2024		
733	Environmental Monitoring and Assessment	Influence of seasonal variation on spatial distribution of PM2.5 concentration using low-cost sensors	Sandeep Kumar Chaudhry · Sachchida Nand Tripathi · Tondapu Venkata Ramesh Reddy · Anil Kumar · Sandeep Madhwal · Amit Kumar Yadav · Pranav Kumar Pradhan	196	2024		

734	EGUsphere	Long-term trends in aerosol properties derived from AERONET measurements	Zhenyu Zhang, Jing Li, Huizheng Che, Yueming Dong, Oleg Dubovik, Thomas Eck, Pawan Gupta, Brent Holben, Jhoon Kim, Elena Lind, Trailokya Saud, Sachchida Nand Tripathi, and Tong Ying		2024		
735	Journal of Hazardous Materials	Interaction of cesium compounds with abundant inorganic compounds of atmosphere: Effect on cloud formation potential and settling	Gaurav Mishra , Manish Kumar , S.N. Tripathi , Manish Joshi , Sidyant Kumar , T. Saud , Sudha Chauhan , Arshad Khan , B.K. Sapra	488	2025		
736	Atmospheric Environment	Assessment of seasonal variation in PM2.5 concentration using low-cost sensors: A case study of Jaipur city, India	Chaudhry, S. K., S. N. Tripathi., Reddy, T. V. R., Madhwal, S., Yadav, A.K., Sahu, R and Pradhan, P.K.	345	2025		
737	Case Studies in Construction Materials	Tension and bond characteristics of foam concrete for repair applications	Arvind Vishavkarma and K.V.Harish	20	2024	e02767	
738	Journal of Building Engineering	Assessment of pore structure of foam concrete containing slag for improved durability performance in reinforced concrete applications	Arvind Vishavkarma and K.V.Harish	86	2024	108939	

739	Case Studies in Construction Materials	Influence of combined substitution of slag and fly ash in improving the pore structure and corrosion resistance of foam concrete mixtures used for reinforced concrete applications	Arvind Vishavkarma, Manoj Kumar, K.V.Harish	21	2024	e03449	
740	Construction and Building Materials	Development of eco-friendly and cost-effective foam concrete using high-volume supplementary cementitious materials: Analysis of microstructural, mechanical, and durability properties	Arvind Vishavkarma and K.V.Harish	458	2025	139584	
741	Journal of Materials in Civil Engineering	Corrosion assessment of sustainable foam concretes incorporating binder and filler modification with slag and fly ash	Arvind Vishavkarma and K.V.Harish	-	2025	-	
742	International Journal of Fatigue	Experimental study on the fatigue performance of deep reinforced concrete beams subjected to simultaneous reinforcement corrosion	Aamna Sarfaraz and K.V.Harish	193	2025	108779	

743	Journal of Bridge Engineering	Experimental Study on Fatigue Behavior of Deep-Reinforced Concrete Beams with Corroded Reinforcement	Aamna Sarfaraz, Pankaj Mishra and K.V.Harish	30 (7)	2025	4025045	
744	Structures	Experimental behaviour of deep reinforced concrete beams exposed to combined effect of pre-fatigue cycles and rebar corrosion	Aamna Sarfaraz, K.V.Harish, and Sudhir Misra	76	2025	108995	
745	Journal of Water Resources Planning and Management	Quantitatively Incorporating Social Equity in Water Network Maintenance and Rehabilitation Decision-Making	Mohanavelu, A., Osman, K. K., Kothari, C., & France-Mensah, J.	150(10)	2024	4024039	
746	The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences	Unsupervised Clustering-based 3D Static Scene Construction Using LiDAR Channel and Azimuth Angle	R Rajput, S Goel, A Medury	48	2024		
747	The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences	Modified ICP based Framework for 3D Localization and Mapping in GNSS-denied Environments using LiDAR	M Koshti, S Barnwal, S Goel	48	2024		
748	ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences	Automated Pipeline for Multi-LiDAR Extrinsic Calibration: Experimental Evaluation and Performance Analysis	S Barnwal, M Koshti, S Goel	10	2024		

749	Journal of Structural Integrity and Maintenance	3D nonlinear finite element simulation of RC beams corroding under service loads	P Mishra, PK Behera, S Misra	9(2)	2024		
750	Physical Review Fluids	Instability analysis of the effects of geothermal gradients on CO ₂ - brine convection in anisotropic aquifers	K Dev, CK Sahu	9	2024		
751	Journal of Environmental Radioactivity	Investigation of dense plumes in porous media using CsNO ₃ solute and phenolphthalein tracer	A Singh, CK Sahu	280(B 13)			
752	Earthquake Engineering & Structural Dynamics	Sub-assemblage testing and fragility analysis of connections of continuous-plasterboard suspended ceiling systems	V Patnana, DC Rai	54(2)	2025		
753	Earthquake Engineering & Structural Dynamics	Limit Analysis and Seismic Performance of Mortar-Bonded and ECC Layered Masonry Arches	R Avasthi, S Kumar, DC Rai		2025		
754	Bulletin of Earthquake Engineering	Seismic behavior of timber-framed structures infilled with dry brick masonry		22	2024		
755	Earthquake Engineering & Structural Dynamics	Seismic performance of vertical strut and lateral brace suspended continuous-plasterboard ceiling system with all edges free in the plane of ceiling	V Patnana, DC Rai	53	2024	3034-3053	

756	Journal of Materials in Civil Engineering	Experimental and Numerical Study on the Behavior of Small-Scaled Masonry Prisms and Beams Strengthened with ECC	S Kumar, DC Rai	36	2024	4024139	
757	Journal of Structural Design and Construction Practice	Vibration-Based Condition Assessment and Retrofitting of the Chambal Railway Bridge in India	G Ghosh, D Singh Saini, V Singh, S Ray-Chaudhuri	30	2025		
758	Structure and Infrastructure Engineering	Seismic performance enhancement of brick masonry walls by retrofitting with nominal RC bands: a study of diagonal compression tests	L Latha, S Ray-Chaudhuri		2024		
759	Journal of Physics: Conference Series	Damage Identification in Masonry Wall Specimens: Shake Table Studies	L Latha, S Ray-Chaudhuri	2647	2024	192022	
760	Earthquake Engineering & Structural Dynamics	Estimation of inelastic displacement ratio spectrum for existing RC structures via displacement response spectrum	Sakshee Dadheech, Vinay K. Gupta	53(3)	2024		
761	Journal of Infrastructure Systems	Incorporating economies of scale in top-down pavement management systems	M Saiya, A Medury	3	2024		

762	Chemical Communications	Benzyl ether: a dynamic covalent motif for designing a trans-ether based covalent adaptable network (CAN)	Pawan Kumar, Vatsalya Gupta, Soumabrata Majumdar, Rahul Patwal, Debabrota Das, Prabin Kumar Ashish, Ramkrishna Sarkar	61	2025		
763	Mechanics of Materials	Multiscale finite element analysis of layer interface effects on cracking in semi-flexible pavements at different temperatures	X Cai, PK Ashish, P Zheng, Z Leng, M Gong, J Yang	194	2024		
764	Construction and Building Materials	Quantitative analysis of asphalt concrete's tension-compression asymmetry effects on pavement response through 3D numerical modeling with dual viscoelastic model	Z Tan, Z Leng, H Li, PK Ashish, X Cai, P Cao	430	2024		
765	Networks and Spatial Economics	Novel Trip Agglomeration Methods for Efficient Extraction of Urban Mobility Patterns	Praveen Kumar, Partha Chakroborty, Hemanth Gehlot	24(4)	2024		
Department of Cognitive Science							
766	Decision	The Role of Magnitude in Loss Aversion	Mukherjee S.; Khan O.; Srinivasan N.	12	2025	93-110	
767	Neuroscience of Consciousness	Deciphering temporal scales of visual awareness: insights from flicker frequency modulation in continuous flash suppression	Singhal I.; Srinivasan N.		2025		

768	Open Mind: Discoveries in Cognitive Science	Present-focused behavior as a rational adaptation to precarity.	Mitra, A., Srinivasan, N., & Srivastava, N.	9	2025	452-474	
769	Bilingualism: Language and Cognition	Thalamus as a neural marker of cognitive reserve in bilinguals with frontotemporal dementia	Thanissery, N., Arshad, F., Khokhar, S., Kenchaiah, R., Singh, V., Ramakrishnan, S., Srinivasan, N., Bapi, R. S., & Alladi, S.		2025		
770	Open Mind: Discoveries in Cognitive Science	Combination and differentiation theories of categorization: A comparison using participants' categorization descriptions	Thomas, S., Kapoor, A., & Srinivasan, N	9	2025	266-289	
771	Cognitive Processing,	Choosing between bad and worse: Investigating the utilitarian choice through the lens of control	Shivnekar, R., & Srinivasan, N	26	2025	29-36	
772	Psychology of Consciousness	Just one moment: Unifying theories of consciousness based on a phenomenological "now" and temporal hierarchy	Singhal, I., & Srinivasan, N.		2024		
773	Physics of Life Reviews	Alpha suppression in the context of cross-frequency interactions between fast and intermediate timescales	Srinivasan, N., & Mudumba, R.	51	2024	11-12	
774	Nature Human Behaviour	100 Years of EEG: Looking back and forwards	Mushtaq, F., Welke, D., ..., Srinivasan, N., ..., & Valdes-Sosa, P.	8	2024	1437-1443	

775	Progress in Brain Research	Disinterested attention and aesthetic experience	Basu, S., & Srinivasan, N.	287	2024	25-44	
776	Progress in Brain Research	Neurophysiology of Silence, Part C: Creativity, Aesthetic Experience and Time	Ben-Soussan, T. D., Glicksohn, J., & Srinivasan, N.	287	2024		
777	'Saathi' for pre-primary kids	Computational Thinking Unplugged! Teacher. Australian Council of Educational Research.	Varma, S., & Srivastava, A.		2024		
778		'Early Childhood Care and Education' ,	Anveshna Srivastava		2025		
779	Journal of Memory and Language	The effect of similarity-based interference on bottom-up and top-down processing in verb-final languages: Evidence from Hindi.	Samar Husain, Apurva, Ishita Arun, and Himanshu Yadav.	143	2025	104627	
780	Glossa Psycholinguistics	Revisiting processing complexity of nested and cross-serial dependencies	Himanshu Yadav, Stefan Frank, Richard Futrell, and Samar Husain	8	2025	1-28	
781	Journal of Memory and Language	Do syntactic and semantic similarity lead to interference effects? Evidence from self-paced reading and event-related potentials using [2] German [2]	Pia Schoknecht. Himanshu Yadav, and Shravan Vasishth	141	2025	104599	

782	Biological Psychiatry Global Open Science	Modulation of Posterior Default Mode Network Activity During Interoceptive Attention and Relation to Mindfulness	Dhakshin Ramanathan, Jason Nan, Gillian Grennan, Satish Jaiswal, Suzanna Purpura, James Manchanda, Vojislav Maric, Pragathi Priyadharsini Balasubramani, Jyoti Mishra	4	2024	100384	
783	medRxiv	Utility of gut-brain electrophysiological coupling in predicting L-Dopa induced dyskinesia in Parkinson's Disease	Sanket Houde, Mansimran Kaur, Hari Prakash Tiwari, Nandini Priyanka B, Rathore BP, Pragathi P Balasubramani		2024	24318228	
784		Posterior default mode network activity underlies distracted interoceptive attention and provides an objective basis for low mindfulness & depression	Jyoti Mishra, Dhakshin Ramanathan, Gillian Grennan, Jason Nan, Suzanna Purpura, James Manchanda, Vojislav Maric, Pragathi Balasubramani		2024		
785	medRxiv	Assessing the utility of brain and gut cognitive electrophysiology for early prediction of treatment outcome in major depressive disorder	Amal Jude AshwinFrancis, Alok Bajpai, Hari Prakash Tiwari, Nandini Priyanka B, Pragathi Priyadharsini Balasubramani		2025	25323496	

786	Proceedings of the the National Academy of Sciences	Interpersonal heart rate synchrony predicts effective information processing in a naturalistic group decision-making task.	Sharika, K. M., Thaikkandi, S., Nivedita, & Platt, M. L.	121	2024		
Department of Computer Science and Engineering							
787	Journal of Symbolic Computation	Solving polynomial systems over non-fields and applications to modular polynomial factoring	Chakrabarti S.;Dwivedi A.;Saxena N.	125	2024		
788	Computers and Geosciences	ShaVi-1.0: An interface enabled open source 2D acoustic full waveform inversion package	Vikas ;Roy S.;Ghosal D.	187	2024		
789	Computers in Industry	ProIDS: A Segmentation and Segregation-based Process-level Intrusion Detection System for Securing Critical Infrastructures	Maurya V.;Shukla S.K.	163	2024		
790	Atmospheric Environment	A hybrid approach for integrating micro-satellite images and sensors network-based ground measurements using deep learning for high-resolution prediction of fine particulate matter (PM _{2.5}) over an indian city, lucknow	Jain V.;Mukherjee A.;Banerjee S.;Madhwal S.;Bergin M.H.;Bhave P.;Carlson D.;Jiang Z.;Zheng T.;Rai P.;Tripathi S.N.	338	2024		

791	Nature	Temporal recording of mammalian development and precancer	Islam M.;Yang Y.;Simmons A.J.;Shah V.M.;Musale K.P.;Xu Y.;Tasneem N.;Chen Z.;Trinh L.T.;Molina P.;Ramirez-Solano M.A.;Sadien I.D.;Dou J.;Rolong A.;Chen K.;Magnuson M.A.;Rathmell J.C.;Macara I.G.;Winton D.J.;Liu Q.;Zafar H.;Kalhor R.;Church G.M.;Shrubsole M.J.;Coffey R.J.;Lau K.S.	634	2024	1187-1195	
792	Digital Threats: Research and Practice	ADAPT: Adaptive Camouflage Based Deception Orchestration For Trapping Advanced Persistent Threats	Putrevu V.S.C.;Mukhopadhyay S.;Manna S.;Rani N.;Vaid A.;Chunduri H.;Putrevu M.A.;Shukla S.	5	2024		
793	ACM Transactions on Computation Theory	Improved Lower Bound, and Proof Barrier, for Constant Depth Algebraic Circuits	Bhargav C.S.;Dutta S.;Saxena N.	16	2024		
794	International Journal of Information Security	IoT device security audit tools: a comprehensive analysis and a layered architecture approach for addressing expanded security requirements	Kumar A.;Kavisankar L.;Venkatesan S.;Kumar M.;Yadav S.;Shukla S.K.;Khondoker R.	24	2025		

795	IEEE Design and Test	Full Key Extraction of SNOW-V Using ML-Assisted Power SCA	Saurabh H.;Kundu S.;Titti S.S.;Golder A.;Pandian K.K.S.;Li C.;Karmakar A.;Das D.	42	2025	61-70	
796	Theoretical Computer Science	Point enclosure problem for homothetic polygons	Akram W.;Saxena S.	1030	2025		
797	Information Processing Letters	Total variation distance for product distributions is #P-complete	Bhattacharyya A.;Gayen S.;Meel K.S.;Myrasiotis D.;Pavan A.;Vinodchandran N.V.	189	2025		
798	Theory of Computing Systems	One-Sided Markets with Externalities	Massand S.;Simon S.	69	2025		
799	Computational and Mathematical Organization Theory	Characterizing the roles of preference homophily and network structure on outcomes of consensus games	Arya P.;Srivastava N.		2025		
800	IACR Transactions on Cryptographic Hardware and Embedded Systems	Rudraksh: A compact and lightweight post-quantum key-encapsulation mechanism	Kundu S.;Ghosh A.;Karmakar A.;Sen S.;Verbauwhede I.	2025	2025	647-680	
801	IEEE Transactions on Circuits and Systems-1	Winograd for NTT: A Case Study on Higher-Radix and Low-Latency Implementation of NTT for Post Quantum Cryptography on FPGA	Mandal Suraj; Basu Roy Debapriya	71	2024		
802	IEEE Transactions on Visualization and Computer Graphics	Uncertainty-Aware Deep Neural Representations for Visual Analysis of Vector Field Data	Kumar A; Garg A; Dutta S	31	2024		

806	Energy Geoscience	Reservoir heterogeneity analysis using multi-directional textural attributes from deep learning-based enhanced acoustic impedance inversion: A study from Poseidon, NW shelf Australia	Anjali Dixit ., Animesh Mandal ., Shib Sankar Ganguli .,	5	2024		
807	International Journal of Impact Engineering	Effects of Hugoniot properties on jet onset conditions	Earth Sugandhi;Amar Agarwal;Anwesh Saha;Gaurav Joshi	188	2024		
808	Physics of the Earth and Planetary Interiors	Tectonic development in Singhbhum Craton, NE India decrypted from dyke swarms: A window to understand magma dynamics in Archean-Proterozoic supercontinents	Ojha A.K.;Saini D.P.M.;Agarwal A.;Pandey A.K.	350	2024		
809	Quaternary Science Reviews	Landscape evolution of the NW Himalayan rivers during the late Quaternary and their non-contemporaneity to the Harappan Civilization	Khan I.;Sinha R.;Murray A.S.;Jain M.	331	2024		
810	ISPRS Journal of Photogrammetry and Remote Sensing	On the reachability and genesis of water ice on the Moon	Chakraborty T.;Syed T.H.;Heggy E.;Putrevu D.;Dutta U.	211	2024	392-405	

811	Water Resources Research	Isotope Hydrograph Separation Reveals Rainfall on the Glaciers Will Enhance Ice Meltwater Discharge to the Himalayan Rivers	Roy N.;Sen I.S.;Boral S.;Shukla T.;Velu V.	60	2024		
812	Geomorphology	Observing changes in the present and paleo-glacial extents of major glaciers in the Alaknanda Basin of Central Himalaya	Remya S.N.;Syed T.H.;Kulkarni A.V.;Nainwal H.C.;Mishra A.;Raj K. B.G.	461	2024		
813	Earth, Planets and Space	The probable direction of impact at Dhala impact structure, India deciphered from microfracture intensity and X-ray diffractometry: a new potential impact direction indicator	Swastik Suman Behera;Sonal Tiwari;Ambrish Kumar Pandey;Amar Agarwal;Arun Kumar Ojha	76	2024		
814	Solid Earth	Magmatic underplating associated with Proterozoic basin formation: insights from gravity study over the southern margin of the Bundelkhand Craton, India	Mukherjee A.P.;Mandal A.	15	2024	711-729	

815	Geochemistry, Geophysics, Geosystems	Evidence for Low- Pressure Crustal Anatexis During the Northeast Atlantic Break-Up	Morris A.M.;Lambart S.;Stearns M.A.;Bowman J.R.;Jones M.T.;Mohn G.;Andrews G.;Millett J.;Tegner C.;Chatterjee S.;Frieling J.;Guo P.;Jolley D.W.;Cunningham E.H.;Berndt C.;Planke S.;Alvarez Zarikian C.A.;Betlem P.;Brinkhuis H.;Christopoulou M.;Ferré E.;Filina I.Y.;Harper D.T.;Longman J.;Scherer R.P.;Varela N.;Xu W.;Yager S.L.;Agarwal A.;Clementi V.J.	25	2024		
816	Journal of Earth System Science	Understanding the mudcrack patterns: How layer thickness, grain size, and secondary layers affect their formation – A laboratory study	Todkar T.;Saha P.;Misra S.	133	2024		
817	Journal of Hydrology	Trends of water composition and discharge in the Ramganga River, Ganga Basin over the last 40 years signal enhanced nitrate flux	Ansari A.;Sen I.S.;Sinha R.	641	2024		

818	Earth and Planetary Science Letters	Metamorphic CO ₂ fluxes offset the net geological carbon sink in the Himalayan-Tibetan orogen	Pradhan S.;Sen I.S.	647	2024		
819	Coral Reefs	Microstructure and growth rate variability in a giant clam (<i>Tridacna maxima</i>) from the Lakshadweep Archipelago, India: implications for their use as biological monitors to trace extreme weather events	AA Fousiya, JN Malik, D Paul, S Chakraborty, H Achyuthan	43	2024	319-332	
820	Palaeogeography, Palaeoclimatology, Palaeoecology	Indian summer monsoon variability during the past~ 75 ka based on stable isotope records of sediments from NW India	M Amir, D Paul, YP Chang	637	2024	112016	
821	Marine and Petroleum Geology	The role of the Andaman Nicobar fault (ANF) in shaping Narcondam offshore: Insights from high-resolution reflection seismic data	Srivastav H.K.;Ghosal D.;Jacob J.	172	2025		
822	Quaternary Science Reviews	Climate-controlled distribution of erosion over the Himalaya in the late Quaternary: Evidence from Sr-Nd isotope variability in paleo-Yamuna channel sediments	Amir M.;Paul D.;Yang S.;Chang Y.P.	351	2025		

823	Geosystems and Geoenvironment	Holocene climate variability deciphered from Chilika Lagoon sediments: Implication for anthropogenic activity or paleocyclones?	B Banerjee, M Mallick, M Amir, A Hameed, L Ozelim, NR Kar, E Babu, ...	4	2025	100390	
824	Journal of Geochemical Exploration	Deciphering dissolved load geochemistry of the Upper Ganga Basin: Natural weathering vs human impact	S Panwar, S Yang, E Ray, P Singh, S Uniyal, D Paul	272	2025	107702	
825	Quaternary Science Reviews	Climate-controlled distribution of erosion over the Himalaya in the late Quaternary: Evidence from Sr-Nd isotope variability in paleo-Yamuna channel sediments	M Amir, D Paul, S Yang, YP Chang	351	2025	109179	
826	Soil and Sediment Contamination: An International Journal	Partitioning of Potentially Toxic Elements (PTEs) in the Surface Sediments of Muttukadu Estuary, Tamil Nadu, India: Implication for Environmental Risk Assessment	D Paul, S Das, JK Dash		2025	1-22	

827	Geothermics	Appraisal of geothermal setup using magnetic spectral analysis and 3D gravity inversion for the southern part of Mahanadi geothermal province within Eastern Ghats Mobile Belt, Odisha, India	Mukherjee A.P.;Mandal A.	127	2025		
828	Science of the Total Environment	Spatiotemporal morphodynamics of an ephemeral Himalayan River impacted by sand mining: A process-response framework	Akuria M.;Sinha R.	964	2025		
829	Current Science	Hydrology and water management in the Anthropocene: challenges and opportunities with particular reference to India	Jain S.K.;Sinha R.;Mondal A.;Mujumdar P.P.;Vegad U.;Chandel V.S.;Ponukumati P.;Singh A.	128	2025	354-367	
830	Water Resources Research	InSAR Reveals Recovery of Stressed Aquifer Systems in Parts of Delhi, India: Evidence for Improved Groundwater Management	Kumar H.;Syed T.H.;Amelung F.;Mirzaee S.;Venkatesh A.S.;Agrawal R.	61	2025		

831	Earth Surface Processes and Landforms	Integrating sediment connectivity and stream power index with RUSLE for modelling soil erosion dynamics in a large Himalayan basin under modern and future climate scenarios	Singh S.;Swarnkar S.;Sinha R.	50	2025		
832	Global Biogeochemical Cycles	Chemical Weathering Rates, C-Q Relationships, Fluxes, Dam Impact and pCO_2 Potential in the Ganga Headwaters: Insights From Weekly Time-Series Data	Shaifullah ;Sen I.S.	39	2025		
833	Journal of the Indian Society of Remote Sensing	Tracing Fluid Pathways Related to Hydrothermal Gold Mineralization in Hutti–Maski Schist Belt Using Imaging Spectroscopy	Kumar H.;Syed T.H.;Rajawat A.S.;Jain R.;Mohanani A.;Jayaprasad P.;Mukhopadhyay S.;Upadhyay R.		2025		
834	Meteoritics and Planetary Science	Emplacement of monomict breccia and crater size estimate at the Dhala impact structure, India	Sonal Tiwari;Gaurav Joshi;Pradyut Phukon;Amar Agarwal;Mamilla Venkateshwarlu	60	2025	663-679	
835	Canadian Journal of Earth Sciences	Mapping of fluid venting and attenuation of hydrate bearing sediments from offshore Oregon	Yelisetti S.;Ghosal D.;Perkins L.;Hyndman R.D.	62	2025	772-786	

836	Journal of Geological Society of India	Direction of impact at Lonar crater, India: results from microfracture density and X-ray diffraction analysis	Tiwari, S., Joshi G., Phukon P., Agarwal A., Venkateshwerlu M.	101(4)	2025	453-560	
837	Journal of Hydrology	Estimation of land surface temperature (LST) using UAV based thermal and multispectral aerial imagery over the Critical Zone Observatory (CZO) in the central Ganga plains, India	Dash, Saroj, Harjinder Sembhi, Mary Langsdale, Martin Wooster, Darren Ghent, and Rajiv Sinha	655	2025	132966	
838	River Research and Applications,	Integrating UAV-based topographic and geomorphic analysis for the development of river rehabilitation plans in semi-urban settings.	Sarkar, Dipro and Sinha, R.	451	2024	314-333	
839	Policy Design and Practice	Mainstreaming ecosystem-based approaches into disaster risk reduction policies: a comparative study of Nepal, India and Bangladesh	Paudel, P.K., Parajuli, S., Bihara, M., Kibria, M.G., Abedin, Md. A. and Sinha, R.	7(3)	2024	324-342	
840	Environmental Science and Policy	Integrating traditional and local knowledge into disaster risk reduction policies: Insights from Nepal, India and Bangladesh	Paudel, Prakash K, Meena Bohara, Sital Parajuli, Rajiv Sinha, Md. Anwarul Abedin, Basanta Raj Adhikari, Suraj Gautam, Rabin Bastola, Indrajit Pal, Henry P. Huntington	159	2024	103825	

841	Frontiers in Environmental Science,	Quantifiable impact: monitoring landscape restoration from space	Mendy van der Vliet, Yoann Malbeteau, Darren Ghent, Sander de Haas, Karen Veal, Thijs van der Zaan, Rajiv Sinha, Saroj K. Dash, Rasmus Houborg and Richard de Jeu	12	2024	1352058	
842	Current Science	Operational 500 m surface soil moisture product using EOS-04 C-band SAR over Indian agricultural croplands. Current Science, 12, .	Pandey, Dharmendra Kumar, Prashant Kumar Srivastava, Rucha Dave, Raj K. Setia, Ompal, Rajiv Sinha, Muddu Sekhar, Manish Parmar, Shubham Gupta, Deepak Putrevu, Raghav Mehra, V. Ramanujam, Bimal Kumar, Bhattacharya and Raj Kumar	12	2024	1061-1068	
Department of Economic Sciences							
843	Journal of Asian Economics	Credit creation, credit destruction and credit reallocation: Firm-level evidence from India	Saini S.;Ahmad W.	92	2024		
844	Economic Modelling	Fiscal and monetary policy regimes: New evidence from India	Sachdeva P.;Ahmad W.	139	2024		

845	Pacific Basin Finance Journal	Navigating the “twin titans” of global manufacturing: The impact of US and China on industrial production forecasting in G20 nations	Kumar U.;Ahmad W.	87	2024		
846	Journal of Asian Economics	Inflation targeting and monetary policy response in India	Raghuvanshi A.P.;Ahmad W.	95	2024		
847	Economics Letters	Emergence of trust in the trust game under best experienced payoff dynamics	Srinivas Arigapudi, Ratul Lahkar	236	2024	111620	
848	Journal of Mathematical Economics	Transitions between equilibria in Bilingual Games under Probit Choice	Srinivas Arigapudi	111	2024	102956	
849	Journal of Economic Dynamics and Control	Evolutionary Dynamics in Bilingual Games	Srinivas Arigapudi	165	2024	104898	
850	Games and Economic Behavior	Private Signals and Fast Product Adoption Under Incomplete Information	Itai Arieli, Srinivas Arigapudi	147	2024	377-387	
851	Mathematical Social Sciences	Stability and optimal double auction design for a two-sided market	Vikram A.	133	2025	12-Jan	
852	Journal of Optimization Theory and Applications	Nonconvex Quasi-Variational Inequalities: Stability Analysis and Application to Numerical Optimization	Dutta J.;Lafhim L.;Zemkoho A.;Zhou S.	204	2025		

853	Journal of Public Health Policy	A population-level impact assessment of the National Health Mission on maternal and child health outcomes in India	Singh A.;Vellakkal S.;Mishra A.K.		2025		
854	Indian Economic Review	Understanding the effect of market risks on new pension system and government responsibility	Das S.;Datta B.;Tiwari S.R.		2025		
855	Annals of Operations Research	Bilevel programming problems: a view through set-valued optimization	Som K.;Thirumulanathan D.;Dutta J.		2025		
856	Games and Economic Behavior	Stable mixing in Hawk–Dove Games under best experienced payoff dynamics	Srinivas Arigapudi, Yuval Heller	151	2025	148-161	
857	American Economic Journal: Microeconomics	Heterogeneous noise and stable miscoordination	Srinivas Arigapudi, Yuval Heller, Amnon Schreiber	Forth coming	2025		
858	Social Choice and Welfare	Data-driven auditing of business and self-employment earnings	Bag, P., Datta, N., Wang, P.		2024		
859	Emerging Markets Review	On the communication efforts of the central banks in emerging economies: The case of India	Shrimali, S., Ahmad, W.	65	2025		
860	Journal of Forecasting	Bayesian Markov switching model for BRICS currencies' exchange rates	Kumar, U., Ahmad, W., Uddin, G. S.	43 (6)	2024	2322-2340	

861	Emerging Markets Review	Do recessions induce the Schumpeterian creative destruction? Micro-evidence from India.	Saini, S., Ahmad, W., Uddin. G.S.	59	2024		
862	Global Finance Journal	FinTech entrepreneurial ecosystem in India: Role of incubators and accelerators	Kaur, M., Ahmad, W., Hari, K. S., Kattumuri, R.	60	2024		
863	Emerging markets Finance and Trade	How does macroprudential policy impact bank risk taking and profitability: evidence from Indian commercial banks	Kumar Sanjiv and Prabheesh K.P.	61(4)	2025	875-902	
864	Journal of Quantitative Economics	Spatial Convergence Among Indian Districts: An Econometric Evidence	Manish Chauhan Somes K Mathur Praveen Kulshrestha	23	2025		
Department of Electrical Engineering							
865	Electrical Engineering	A robust generalized soft-root-sign adaptive filter algorithm for a grid-coupled PV system	Markala Karthik ., N. Venkata Ramana Naik ., Anup Kumar Panda .,	106	2024	2537-2553	
866	International Journal of Electrical Power & Energy Systems	Optimal single settings based relay coordination in DC microgrids for line faults	Maurya S.K.;Soni A.K.;Mohapatra A.;Sharma A.	156	2024		
867	IEEE Networking Letters	Near-Perfect Coverage Manifold Estimation in Cellular Networks via Conditional GAN	Mondal W.U.;Goyal V.;Ukkusuri S.V.;Das G.;Wang D.;Alouini M.S.;Aggarwal V.	6	2024	97-100	

868	IEEE Transactions on Power Delivery	Protection Coordination in AC Microgrid via Novel Voltage-Supervised Directional Over-Current Relays	Soni A.K.;Mohapatra A.;Singh S.N.	39	2024	1549-1562	
869	Microwave and Optical Technology Letters	Analysis of antenna arrays using equivalent sources for increase in computational efficiency for 5G and beyond	Aakash ;Bhattacharya S.;Jaiswal R.K.;Srivastava K.V.	66	2024		
870	Microelectronic Engineering	GaN low noise amplifier MMIC with LPF and HPF noise matching	Zaid M.;Kumari P.;Nazir M.S.;Pampori A.;Goyal U.;Mishra M.;Chauhan Y.S.	291	2024		
871	IEEE Transactions on Electron Devices	Compact Modeling of Impact Ionization and Conductivity Modulation in LDMOS Transistors	Sharma A.;Hayat Zarkob Y.;Pahwa G.;Kumar Dabhi C.;Goel R.;Agarwal H.;Kubrak V.;Tang M.;Treiber M.;Hu C.;Singh Chauhan Y.	71	2024	4240-4246	
872	Solid-State Electronics	Temperature- and variability-aware compact modeling of ferroelectric FDSOI FET for memory and emerging applications	Chatterjee S.;Kumar S.;Gaidhane A.;Dabhi C.K.;Chauhan Y.S.;Amrouch H.	218	2024		
873	Automatica	Curvature bounded trajectories of desired lengths for a Dubins vehicle	Rao A.K.;Singh K.P.;Tripathy T.	167	2024		

874	SciPost Physics	AdvNF: Reducing mode collapse in conditional normalising flows using adversarial learning	Kanaujia V.;Scheurer M.S.;Arora V.	16	2024		
875	Digital Signal Processing: A Review Journal	Sparsity-driven loudspeaker gain optimization for sound field reconstruction with spherical microphone array	Routray G.;Hegde R.M.	154	2024		
876	Electric Power Systems Research	Loss allocation methods in distribution networks: Present status and challenges	Singh N.;Mohapatra A.;Singh S.N.	236	2024		
877	Energy Storage	Estimation of hybrid energy generation of solar-wind tower for electric vehicle charging: A case study of Indian highway	Singh S.P.;Tiwari P.;Singh S.N.;Singh P.P.	6	2024		
878	Digital Signal Processing: A Review Journal	Sparse reconstruction methods for wideband source localization in spherical harmonics domain	Goel A.;Hegde R.M.	154	2024		
879	Physics of Fluids	On the wake of two transversely counter-rotating inline spheres in a uniform flow	Kumar A.;Das S.P.;Tiwari S.	36	2024		

880	Chaos, Solitons and Fractals	Chaos quasi-opposition crayfish based modified new controller designed for hybrid deregulated power environment considering cyber-attack	Singh P.P.;Shankar R.;Singh S.N.	187	2024		
881	Optik	Fringe pattern normalization using conditional Generative Adversarial Networks	Ram V.S.;Gannavarpu R.	313	2024		
882	Thermal Science and Engineering Progress	Thermo-hydrodynamic characterization and mapping of the two-phase flow in a capillary tube	Kumar R.;Bhardwaj U.;Das S.P.	55	2024		
883	Optics Continuum	Deep phase derivative estimation in digital holographic interferometry	Pandey D.;Gannavarpu R.	3	2024	1765-1779	
884	Optical Materials	Active and passive infrared emittance tuning using optically transparent unpatterned ITO thin films	Bandhu H.;Ashok P.;Verma A.	157	2024		
885	Applied Physics Letters	Characterization and modeling of the mobility, threshold voltage, and subthreshold swing in p-GaN gate HEMTs at cryogenic temperatures	Singh S.K.;Ngo T.S.;Wu T.L.;Chauhan Y.S.	125	2024		

886	ChemistrySelect	Graphene-Transition Metal Electrocatalysts for Sustainable Water Electrolysis	Tripathi P.;Verma A.K.;Sinha A.S.K.;Singh S.	9	2024		
887	Physics of Fluids	On the wake of two transversely co-rotating inline spheres in a uniform flow	Kumar A.;Das S.P.;Tiwari S.	36	2024		
888	IEEE Transactions on Industry Applications	A Seamless Control of Grid-Connected PV System for Alleviating PV Penetration in Rural Grid Using Supercapacitor Accompanying With DSTATCOM and Improved CTF Control	Behera M.K.;Saikia L.C.	60	2024	3588-3602	
889	Physics of Fluids	Effect of depth ratio on frozen wave instability in immiscible liquids	Choudhary K.P.;Das S.P.;Tiwari S.	36	2024		
890	Foundations and Trends in Electric Energy Systems	Voltage Stability of Power Systems	Chakrabarti S.	8	2024	124-168	
891	IEEE Power Electronics Magazine	Dynamic Modelling and Control of Dual-Active-Bridge DC-DC Converter with Triple-Phase-Shift Modulation	S. Madineni, Harisyam P. V., D. Das, S. Paul, U. Kundu, S. Ghotgalkar and K. Basu	11	2024	45-53	

892	Journal of Magnetism and Magnetic Materials	Microstructural study with enhanced dielectric and magnetic properties of M-type Nd doped $\text{Ba}_{1-x}\text{Nd}_x\text{Fe}_{12}\text{O}_{19}$ ($x = 0-0.20$) hexaferrites synthesized via sol-gel auto-combustion route	Riyaz ;Abushad M.;Arshad M.;Ansari A.;Akhtar M.J.;Husain S.;Khan W.	614	2025		
893	Energy and Fuels	Cutting-Edge OER Electrocatalysts for Sustainable Seawater Electrolysis: Progress, Obstacles, and Future Prospects	Tripathi P.;Verma A.K.;Sinha A.S.K.;Singh S.	39	2025	2348-2380	
894	Materials Today Communications	Barium strontium titanate and exfoliated graphite nanocomposite integrated with frequency selective surface for enhanced radar absorption	Choudhary A.;Tahalyani J.;Akhtar M.J.	42	2025		
895	IEEE Access	Deep Reinforcement Learning-Based Speed Predictor for Distributionally Robust Eco-Driving	Chaudhary R.;Sharma N.K.;Kala R.;Singh S.N.	13	2025	13904-13918	

896	IEEE Journal of the Electron Devices Society	Impact Ionization in LDMOS Transistors: Improved Compact Model and Asymmetry under Forward and Reverse Modes of Operation	Zarkob Y.H.;Rajasekharan D.;Pampori A.;Sharma A.;Pahwa G.;Nandi D.;Dabhi C.K.;Kubrak V.;Peddenpohl B.;Tang M.;Hu C.;Chauhan Y.S.		2025		
897	IEEE Transactions on Industry Applications	Design of Price Functions Incorporating Line-Loss in Electricity Market Using Cournot Model	Guha B.;Mohapatra A.;Sahoo S.R.	61	2025	2227-2236	
898	IEEE Transactions on Artificial Intelligence	Age-Aware UAV-Aided Energy Harvesting for the Design of Wireless Rechargeable Mobile Networks	Singh A.;Hegde R.M.		2025		
899	JPhys Photonics	Resonant structure for improved directionality and extraction of single photons	Chowdhury S.;Rituraj ;Krishnamurthy S.;Bhallamudi V.P.	7	2025		
900	AIP Advances	Highly sensitive and efficient 1550 nm photodetector for room temperature operation	Rituraj ;Yu Z.G.;Kandedgedara R.M.E.B.;Fan S.;Krishnamurthy S.	15	2025		
901	IEEE Transactions on Device and Materials Reliability	Comprehensive TCAD-Based Single Event Effect Study of TFET-Based 1T DRAM and Crossbar Memory Array	Prakash D.;Kamal N.;Lahgere A.	25	2025	156-162	
902	IEEE Journal of the Electron Devices Society	Investigating Differences in Performances of top and Bottom Illuminated Organic Solar Cells	Anil Kumar Panda H.;Pandey G.;Iyer S.S.K.		2025		

903	Multimedia Tools and Applications	Variable feature weighted fuzzy k-means algorithm for high dimensional data	Singh V.;Verma N.K.		2025		
904	IEEE Transactions on Circuits and Systems I: Regular Papers	Ferroelectric FET-Based Bayesian Inference Engine for Disease Diagnosis	Chakraborty A.;Rafiq M.;Hayat Zarkob Y.;Singh Chauhan Y.;Sahay S.	72	2025	1547-1559	
905	IEEE Transactions on Energy Conversion	Multi-Target Control Technique for DFIG Under Unbalanced Voltage	Mahawar J.K.;Sehrawat M.;Vishwanath G.M.;Chakrabarti S.		2025		
906	IEEE Transactions on Electron Devices	Benchmarks for SPICE Modeling and Parameter Extraction Based on AI/ML	McAndrew C.C.;Scholten A.J.;Gullapalli K.K.;Chauhan Y.;Xia K.	72	2025	1551-1559	
907	IEEE Journal on Exploratory Solid-State Computational Devices and Circuits	Cryogenic Hyper-Dimensional In-Memory Computing using Ferroelectric TCAM	Parihar S.S.;Kumar S.;Chatterjee S.;Pahwa G.;Chauhan Y.S.;Amrouch H.		2025		
908	IEEE Transactions on Artificial Intelligence	MalaNet: A Small World Inspired Neural Network for Automated Malaria Diagnosis	Dwivedi S.;Pandey K.;Shubham K.;Pandey O.J.;Tripathi A.M.;Sandhan T.;Hegde R.M.		2025		
909	IEEE Transactions on Industry Applications	Peer-to-Peer Energy Trading Framework Using Markov Chain for a Resilient Smart Grid	Arora M.;Vishwanath G.M.;Sharma A.;Chilamkurti N.		2025		
910	Indian Journal of Otolaryngology and Head and Neck Surgery	Binary Classification of Laryngeal Images Utilising ResNet-50 CNN Architecture	Srivastava R.;Kumar N.;Sandhan T.	77	2025	644-651	

911	IEEE Transactions on Communications	Multi-dimensional Sparse CSI Acquisition for Hybrid mmWave MIMO OTFS Systems	Mehrotra A.;Singh J.;Srivastava S.;Singh R.K.;Jagannatham A.K.;Hanzo L.		2025		
912	IEEE Transactions on Reliability	ENADL: Towards Performance Improvement of IoT Networks Using Deep Learning-Based Node Fault Prediction	Tripathi S.;Nizar F.;Pandey O.J.;Sandhan T.;Hegde R.M.		2025		
913	Optimization and Engineering	Chance-constrained robust dynamic OPF in mutually coupled distribution networks with uncertain injections	Paul S.K.;Mohapatra A.;Das D.C.		2025		
914	Optics Express	Wavelength-agnostic metasurface design for next-generation 2D photodetectors	Jamdar A.M.;Rituraj ;Krishnamurthy S.;Bhallamudi V.P.;Krishnan S.	33	2025	13961-13971	
915	IEEE Wireless Communications Letters	Decentralized Learning Algorithm for Active User and Data Detection in mMTC CF mMIMO Systems	Mishra Y.;Rajoriya A.;Budhiraja R.		2025		
916	International Journal of Intelligent Unmanned Systems	A cyber-physical system based unmanned ground vehicles for safety inspection and rescue support in an underground mine	Behera L.;Agarwal S.;Sandhan T.;Sharma P.;Kumar A.;Ranjan A.;Watsa S.;Singh A.;Kasina J.S.	13	2025	92-128	
917	IEEE Journal on Exploratory Solid-State Computational Devices and Circuits	An Investigation of Minimum Supply Voltage of 5nm SRAM from 300K down to 10K	Raza H.;Parihar S.S.;Chauhan Y.S.;Amrouch H.;Lahgere A.		2025		

918	IEEE Journal of the Electron Devices Society	Investigating Self-Heating Effects in Ferroelectric FinFETs for Reliable In-Memory Computing	Deshwal S.;Kumar S.;Chatterjee S.;Kar A.;Parihar S.S.;Chauhan Y.S.;Amrouch H.		2025		
919	IEEE Transactions on Circuits and Systems I: Regular Papers	A Lightweight PUF-Based Weights Obfuscation Technique for Secure In-Memory AI Inference	Parrini L.;Kar A.;Hettwer B.;Soliman T.;Chauhan Y.S.;Amrouch H.;Wehn N.		2025		
920	IEEE Transactions on Vehicular Technology	Bayesian Off-Grid Near-Field Channel Estimation	Rajoriya A.;Pisharody J.N.;Mishra Y.;Budhiraja R.		2025		
921	ACS Energy Letters	Lead-Free Cs ₃ Bi ₂ I ₉ Perovskite Memristors for Energy-Efficient Neuromorphic Computing	Vishwanath S.K.;Karkera C.;Mohammad T.;Sharma P.;Badavathu R.N.;Khandelwal U.;Kanwat A.;Chakrabarty P.;Suresh D.;Sahay S.;Sadhanala A.		2025	2193-2202	
922	IEEE Transactions on Communications	Data-Aided Bistatic Sensing and Communication for mmWave MIMO-OFDM ISAC Systems	Gupta A.;Ganji P.;Srivastava S.;Jagannatham A.K.		2025		
923	IEEE Transactions on Nanotechnology	Band-to-Band Tunneling Based Unified RAM (URAM) for Low Power Embedded Applications	A. Lahgere, A. K. Kamal and R. Kumar	23	2024	629-635	
924	IEEE Journal of Emerging and Selected Topics in Industrial Electronics	Modeling and Optimal Control of Modified Pulse Width Modulation on Series Resonant-based Dual Active Bridge	S. Singh and S. Samanta	5	2024	908-916	

925	IEEE Transactions on Industrial Electronics	Harmonic Inclusion and Accurate Modeling and Performance Analysis of the IPT Topologies Under Varying Operating Conditions	J. Kumar and S. Samanta	71	2024	8679-8689	
926	IEEE Transactions on Industrial Electronics	A Novel Parameter Tuning for LCL-LCL WPT with Combined CC/CV Charging and Improved Harmonic Performance	R. Gupta and S. Samanta	71	2024	13969-13979	
927	IEEE Journal of Emerging and Selected Topics in Industrial Electronics	A Single-Stage Universal Input Wireless Inductive Power Transfer System With V2G Capability	J. Kumar and S. Samanta	5	2024	1017-1029	
928	IEEE Journal of Emerging and Selected Topics in Industrial Electronics	Single-Phase Integrated Onboard Battery Charger Incorporating Symmetrical Six-Phase Induction Motor	M. Singh, S. Samanta and S. P. Das	6	2025	664-676	
929	IEEE Journal of Industry Applications	A Study of Design and Control Methods for CC/CV and CP based EV Charging in WPT Topologies	Jalaj Kumar, Ritesh Gupta, Avanish Pandey, Suvendu Samanta, Akshay Kumar Rathore	14	2025		
930	Materials Today Communications 42	Barium strontium titanate and exfoliated graphite nanocomposite integrated with frequency selective surface for enhanced radar absorption	Anshuman Choudhary, Jitendra Tahalyani, M. Jaleel Akhtar	42	2025	111494	

931	Diamond and Related Materials	An ultrathin broadband terahertz metasurface absorber with angular stability using graphene	Mohammad Shahnawaz, Himangshu B. Baskey, M. Jaleel Akhtar	149	2024		
932	IEEE Sensors Letters	Novel Microwave-Based NonContact Oedema Severity Monitoring with Machine Learning	A. Khasnobish, A. Mazumder, V. K. Bharadwaj, T. Chakravarty and M. J. Akhtar	8	2024	1--4	
933	IEEE Microwave and Wireless Technology Letters	RF Switch Integrated With CSRR Array for Subsurface Imaging of Composite Structures	A. Kumari, S. P. Das, G. Govind and M. J. Akhtar	34	2024	1403-1406	
934	IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology	Lipase Assisted Improved RF Biosensor for Triglycerides Level Detection in Blood Serum	P. Azad, A. Kumari and M. J. Akhtar	8	2024	265--272	
935	Journal of Magnetism and Magnetic Materials	Microstructural study with enhanced dielectric and magnetic properties of M-type Nd doped Ba _{1-x} Nd _x Fe ₁₂ O ₁₉ (x = 0–0.20) hexaferrites synthesized via sol–gel auto-combustion route	Riyaz, M. Abushad, M. Arshad, Azizurrahman Ansari, M.J. Akhtar, Shahid Husain, Wasi Khan	614	2025		
936	IEEE Transactions on Circuits and Systems II: Express Briefs	Wideband Low-Profile Endfire Antenna With Polarization Reconfigurability	R. K. Jaiswal, Aakash, A. K. Ojha, C. -Y. -D. Sim and K. V. Srivastava	71	2024	1984-1988	

937	IEEE Transactions on Electromagnetic Compatibility	Harmonic Engineering in Sub-Wavelength Cavities & Design of Ultrabroadband Microwave Absorbers by Reflection Phase Manipulation	Nitish Kumar Gupta, Sudeb Bhattacharya, Abhinav Bhardwaj, Kumar Vaibhav Srivastava, Harshawardhan Wanare, Janakarajan Ramkumar, and S. Anantha Ramakrishna	66	2024	1079-1086	
938	Journal of Materials Chemistry C	Selective Etching of ITO–PET using a Dry Film Photoresist for Large Area Metamaterial Fabrication	Sudeb Bhattacharya, Kajal Chaudhary, Aakash, J. Ramkumar, and Kumar Vaibhav Srivastava	12	2024	19266-19273	
939	IEEE Antennas and Wireless Propagation Letters	Switchable and Tunable Salisbury Screen Microwave Absorber Based on a Uniform Vanadium Dioxide Film	A. Mishra, R. Jaiswal, K. V. Srivastava, Y. S. Chauhan and A. Verma	23	2024	3719-3723	
940	IEEE Antennas and Wireless Propagation Letters	Design and Experimental Demonstration of Time-Modulated FSS in Broad Frequency Range for Radar Countermeasure	K. Maan, R. Vishwakarma, M. Saikia and K. V. Srivastava	23	2024	3694-3698	
941	IEEE Transactions on Electromagnetic Compatibility	3-D Printed All-Dielectric Ultrabroadband Microwave Absorber	J. Yadav, R. Vishwakarma, M. Saikia, K. V. Srivastava and J. Ramkumar	66	2024	1717-1724	
942	IEEE Microwave and Wireless Technology Letters	Experimental Demonstration of Op-Amp-Based Negative Inductor in Microwave Regime	R. Vishwakarma, Aakash, J. Yadav, A. Verma and K. Vaibhav Srivastava	34	2024	1367-1370	

943	IEEE Transactions on Communications	Angularly Sparse Channel Estimation in Dual-Wideband Tera-Hertz (THz) Hybrid MIMO Systems Relying on Bayesian Learning	Garg A.; Srivastava S.; Yadav N.; Jagannatham A.K.; Hanzo L.	72	2024	4384-4400	
944	IEEE Transactions on Communications	Cooperative Hybrid Beamforming for the Mitigation of Realistic Asynchronous Interference in Cell-free mmWave MIMO Networks	Jafri M.; Srivastava S.; Kumar P.; Jagannatham A.K.; Hanzo L.	72	2024	6737 - 6751	
945	IEEE Transactions on Cognitive Communications and Networking.	Joint Hybrid Transceiver and Reflection Matrix Design for RIS-Aided mmWave MIMO Cognitive Radio Systems	Singh J.;Srivastava S.; Yadav S.P.;Jagannatham A.K.;Hanzo L.	11	2024	391 - 407	
946	IEEE Transactions on Vehicular Technology	Energy Efficiency Optimization of FBMC/OQAM-based Massive MIMO Systems Subject to Electromagnetic Exposure Constraints	Rai S.; Singh P.; Sharma E.; Jagannatham A.K.; Hanzo L.	73	2024	17247 - 17264	
947	IEEE Transactions on Communications	Sparse Target Parameter and Channel Estimation in mmWave MIMO OTFS-aided Integrated Sensing and Communication Systems"	Jafri M.; Srivastava S.; Jagannatham A.K.	73	2025	1320-1335	

948	IEEE Transactions on Vehicular Technology	Multi-Beam Object-Localization for Millimeter-Wave ISAC-Aided Connected Autonomous Vehicles	Singh J.; Gupta A.; Jagannatham A.K.; Hanzo L.	74	2025	1725 - 1729	
949	IEEE Transactions on Communications	Sparse channel estimation for MIMO OTFS/OTSM Systems using Finite-resolution ADCs	Mehrotra A.; Srivastava S.;Reddy S.;Jagannatham A.K.;Hanzo L.		2024	1 - 1	
950	IEEE Transactions on Communications	The Spectral vs. Energy Efficiency Trade-Off in Dynamic User Clustering Aided mmWave NOMA Networks	Rai S.; Sharma E.; Jagannatham A.K.; Hanzo L.		2024	1 - 1	
951	IEEE Transactions on Communications	Pareto Optimal Hybrid Beamforming for Short-Packet Millimeter-Wave Integrated Sensing and Communication	Singh J.; Naveen B.; Srivastava S.; Jagannatham A.K.;Hanzo L.		2024	1 - 1	
952	IEEE Transactions on Communications	Distributed Hybrid Beamforming in mmWave Multi-Cell Systems in the Presence of Cell-Edge Users Relying on Stochastic Channel Uncertainty	Jafri M.; Kumar S.;Srivastava S.; Jagannatham A.K.;Hanzo L.		2024	1 - 1	
953	IEEE Transactions on Vehicular Technology	Pareto-Optimal Hybrid Beamforming for Finite-Blocklength Millimeter Wave Systems	Singh J.; Naveen B.; Srivastava S.; Jagannatham A.K.;Hanzo L.		2025	1 - 7	

954	IEEE Transactions on Communications	Multi-dimensional Sparse CSI Acquisition for Hybrid mmWave MIMO OTFS Systems	Mehrotra A.;Singh J.;Srivastava S.;Singh R.K.;Jagannatham A.K.;Hanzo L.		2025	1 -1	
955	IEEE Transactions on Vehicular Technology	Robust Hybrid Beamforming in Cooperative Cell-free mmWave MIMO Networks Relying on Imperfect CSI"	Jafri M.; Kumar P.;Srivastava S.; Jagannatham A.K.;Hanzo L.		2025	1 -14	
956	IEEE Transactions on Electron Devices	A Comprehensive Analysis of Safe Operating Area Limits in Ferroelectric-Based DEMOS	G. Gill, A. Singhal, G. Pahwa, A. Lahgere and H. Agarwal	71	2024	7270-7276	
957	IEEE Open Journal of Nanotechnology	High-Performance Dielectric Modulated Epitaxial Tunnel Layer Tunnel FET for Label-Free Detection of Biomolecules	K. Aggarwal and A. Lahgere	5	2024	116-123	
958	Microelectronics Journal	Design and Experimental Validation of Class-F–1 GaN Power Amplifier using a Compact Harmonic Control Unit	M. Zaid, A. Pampori, M. S. Nazir, Y. S. Chauhan	149	2024	106218	
959	IEEE Transactions on Electron Devices	Static Negative Susceptibility in Ferromagnetic Material Induced by Domain wall: Possibility to Achieve Gigantic Diamagnetism	N. Pandey, Y. S. Chauhan	71	2024	3952-3958	

960	ACS Applied Electronic Materials	Room Temperature Ferroelectricity, Ferromagnetism, and Anomalous Hall Effect in Half-metallic Monolayer CrTe	I. Ahamed, A. Chakraborty, P. Yadav, R. Dey, Y. S. Chauhan, S. Bhowmick, A. Agarwal	6	2024	3810–3819	
961	IEEE Journal of the Electron Devices Society	Small-Signal and Large-Signal RF Characterization and Modeling of Low and High Voltage FinFETs for 14/16-nm Technology Node SoCs	A. Kar, S. S. Parihar, J. Z. Huang, H. Zhang, W. Wang, K. Imura, Y. S. Chauhan	12	2024	415-425	
962	IEEE Access	Optimizing Low Noise Amplifiers: A Two-Stage Approach for Improved Noise Figure and Stability	M. Zaid, P. Kumari, A. Pampori, M. S. Nazir, U. Goyal, M. Mishra, Y. S. Chauhan	12	2024	53475-53484	
963	IEEE Transactions on Electron Devices	Symmetric BSIM-SOI – Part II: A Compact Model for Partially Depleted SOI MOSFETs	C. K. Dabhi, D. Nandi, K. Nandan, D. Rajasekharan, G. Pahwa, N. Karumuri, S. Turuvekere, A. Dutta, B. Swaminathan, S. Srihari, Y. S. Chauhan, S. Salahuddin, C. Hu	71	2024	2293-2300	
964	IEEE Transactions on Electron Devices	Symmetric BSIM-SOI – Part I: A Compact Model for Dynamically Depleted SOI MOSFETs	C. K. Dabhi, D. Rajasekharan, G. Pahwa, D. Nandi, N. Karumuri, S. Turuvekere, A. Dutta, B. Swaminathan, S. Srihari, Y. S. Chauhan, S. Salahuddin, C. Hu	71	2024	2284-2292	

965	IEEE Electron Device Letters	Dynamics of Domains and its Impact on Gate Tunneling in CMOS-Compatible FeFETs	N. Pandey, Y. S. Chauhan, L. F. Register, S. K. Banerjee	45	2024	1177-1180	
966	IEEE Transactions on Electron Devices	Utilizing Dual-Port FeFETs for Energy-Efficient Binary Neural Network Inference Accelerators	M. Rafiq, S. Chatterjee, S. Kumar, Y. S. Chauhan, S. Sahay	17	2024	4381-4388	
967	IEEE Transactions on Electron Devices	2-D Analytical Modeling of the Magnetic Tunnel Junctions Including Multi-Domain Effects: Predictive Insights and Design Optimization	N. Pandey, Y. S. Chauhan, L. F. Register, S. K. Banerjee	17	2024	4347-4354	
968	IEEE Transactions on Electron Devices	A Physics-Based Model for BEOL Compatible Ferroelectric Field-Effect Transistors	F.-X. Liang, S. Kumar, K. Ni, W. Chakraborty, Y. S. Chauhan, H. Amrouch, S. Datta, M. Niemier, X. S. Hu	17	2024	4397-4402	
969	IEEE Transactions on Electron Devices	A Unified Charge-based SPICE-Compatible Flicker Noise Model for 2D-Material FETs	M. S. Nazir, A. Naseer, S. A. Ahsan, Y. S. Chauhan	71	2024	6452-6455	
970	Nanoscale	Room Temperature Ferroelectricity and Electrically Tunable Berry Curvature Dipole in III-V Monolayers	A. Naseer, A. Priydarshi, P. Ghosh, R. Ahammed, Y. S. Chauhan, S. Bhowmick, A. Agarwal	16	2024	12107-12117	
971	Advanced Intelligent Systems	Thermal Effects on Monolithic 3D Ferroelectric Transistors for DNN Performance	S. Kumar, Y. S. Chauhan, H. Amrouch	6	2024	-	

972	IEEE Journal of the Electron Devices Society	Efficient Implementation of Mahalanobis Distance on Ferroelectric FinFET Crossbar for Outlier Detection	M. Rafiq, Y. S. Chauhan, S. Sahay	12	2024	516-524	
973	IEEE Transactions on Electron Devices	Extending Standard BSIM-BULK Model to Cryogenic Temperatures	W. Manzoor, A. K. Dutta, G. Pahwa, N. Manzoor, C. Hu, Y. S. Chauhan	71	2024	4510-4516	
974	Journal of Applied Physics	Harnessing Room-Temperature Ferroelectricity in Metal Oxide Monolayers for Advanced Logic Devices	A. Naseer, Y. S. Chauhan, A. Agarwal, S. Bhowmick	136	2024	174301	
975	IEEE Transactions on Electron Devices	Physical Insights and Accurate Modeling of Transconductance in Body-contacted Dynamically Depleted SOI MOSFETs	D. Nandi, C. K. Dabhi, D. Rajasekharan, N. Karumuri, S. Turuvekere, S. Choppalli, A. S. Pratiyush, C. Hu, Y. S. Chauhan	71	2024	6506-6513	
976	IEEE Electron Device Letters	Multi-Domain Dynamics and Ultimate Scalability of CMOS-Compatible FeFETs	N. Pandey, Y. S. Chauhan, L. F. Register, S. K. Banerjee	45	2024	2098-2101	
977	IEEE Transactions on Quantum Engineering	Novel Trade-offs in 5nm FinFET SRAM Arrays at Extreme Low Temperatures	S. S. Parihar, G. Pahwa, B. Mohammad, Y. S. Chauhan, and H. Amrouch	6	2025	5500115	
978	IEEE Microwave and Wireless Technology Letters	Exploring Switching Behavior of Dual Gate RF GaN HEMTs: Characterization and Modeling"	M. S. Nazir, P. Dwivedi, A. Pampori, Y.-Y. Hsieh, M.-L. Chou, and Y. S. Chauhan	35	2025	221 - 224	

979	IEEE Transactions on Electron Devices	Transistors based on Novel 2-D Monolayer Semiconductors Bi ₂ O ₂ Se, InSe, and MoSi ₂ N ₄ for Enhanced Logic Density Scaling	K. Nandan, A. Naseer, A. Agarwal, S. Bhowmick, and Y. S. Chauhan	72	2025	516 - 521	
980	IEEE Journal of the Electron Devices Society	A Comprehensive Study of Threshold Voltage Extraction Techniques from Room to Cryogenic Temperatures	W. Manjoor, A. K. Dutta, and Y. S. Chauhan		2025	Early access	
981	IEEE Journal of the Electron Devices Society	Compact XOR/XNOR-based Adders and BNNs Utilizing Drain-Erase Scheme in Ferroelectric FETs	M. Rafiq, Y. S. Chauhan, and S. Sahay,		2025	Early access	
982	IEEE Transactions on Electron Devices	A Broadband and Transient-Accurate AlGaN/GaN HEMT SPICE Model for X-band RF Applications	R. Dangi, A. Pampori, P. Pal, Y. S. Chauhan	71	2024	7390-7397	
983	IEEE Journal of the Electron Devices Society	Utilizing Symmetric BSIM-SOI SPICE model for Dynamically Depleted RF SOI T/R Switches and Logic Circuits	D. Nandi, C. K. Dabhi, D. Rajasekharan, N. Karumuri, S. Turuvekere, B. Swaminathan, S. Srihari, A. Dutta, C. Hu, and Y. S. Chauhan		2025	Early access	
984	IEEE Journal of the Electron Devices Society	Demonstration of Gate-related Trap Characterization in 4H-SiC MOSFETs using Gate Stress Leakage Current	S. K. Singh, T.-L. Wu, and Y. S. Chauhan,		2025	Early access	
985	IEEE Transactions on Circuits and Systems	Ferroelectric FET based Bayesian Inference Engine for Disease Diagnosis	A. Chakraborty, M. Rafiq, Y. H. Zarkob, Y. S. Chauhan, and S. Sahay	72	2025	1547 - 1559	

986	IEEE Journal on Flexible Electronics	Flexible Vanadium Dioxide Films and Devices on Kapton Fabricated with Low Temperature Atmospheric Oxidation of Vanadium	Ashok P, Y. S. Chauhan, A. Verma	3	2024	368-373	
987	IEEE Trans. Aerosp. Electron. Syst.,	Robust Velocity Control of a Fixed Canard Decoupled Dual-Spin Projectile,	S. M. Nayak, J. Singh, M. Kothari, and S. R. Sahoo	61	2025	1079–1089	
988	IEEE Trans. Autom. Sci. Eng	Robust Attitude Control With Fixed Exponential Rate of Convergence and Consideration of Motor Dynamics for Tilt Quadrotor Using Quaternions	S. Seshasayanan, S. De, and S. R. Sahoo	22	2025	2445–2459	
989	IEEE J. Emerg. Sel. Top. Ind. Electron.	Conductance Emulation Control for Real Power Compensation in Series-Stacked Active Power Decoupling Circuit	N. Deshmukh, A. Sarkar, S. Anand, and S. R. Sahoo	6 no. 1	2025	350–361	
990	IEEE Robotics and Automation Letters	Design, localization, perception, and control for GPS-denied autonomous aerial grasping and harvesting.	Kumar, A., & Behera, L	9(4)	2024	3538-3545	
991	IEEE Robotics and Automation Letters	Neural-FxSMC: A Robust Adaptive Neural Fixed-Time Sliding Mode Control for Quadrotors With Unknown Uncertainties	S. C. Yogi, L. Behera and T. Tripathy	9, no. 6	2024	5927-5934	
992	IEEE Trans. Electron Devices	Parasitic Gate Capacitance Model for N-Stack Forksheet FETs	S. Sharma, S. Sahay, and R. Dey	71, no. 3	2024	1728–1736	

993	IEEE Trans. Electron Devices	Revisiting Lateral-BTBT Gate-Induced Drain Leakage in Nanowire FETs for 1T-DRAM,	Y. Bashir, A. K. Jaiswal, S. D. Patel, and S. Sahay	71, no. 4	2024	2714–2720	
994	IEEE Open J. Nanotechnol	Utilizing MRAMs With Low Resistance and Limited Dynamic Range for Efficient MAC Accelerator,	Sateesh, K. Chakarwar, and S. Sahay	5	2024	141–148	
995	IEEE Trans. Electron Devices	Source-Drain Series Resistance Model for N -Stack Nanosheet FETs Using Transmission Line Matrix Method	S. Sharma, S. Sahay, and R. Dey	71, no. 11	2024	6520–6526	
996	IEEE Transactions on Smart Grid (2024)	Securing Power System Data in Motion by Timestamped Digital Text Watermarking	Roy, Siddhartha Deb, Ankush Sharma, Saikat Chakrabarti, and Sanjoy Debbarma	NA	2024	NA	
997	IEEE Access (2024).	Network-level vulnerability assessment of synchrophasor measurement devices	Swain, Kamakshi P., Ankush Sharma, Amey Karkare, Saikat Chakrabarti, Elena Gryazina, and Vladimir Terzija	NA	2024	NA	
998	IEEE Access (2024).	Performance Analysis of Smart Grid Communication Networks using Co-simulation	Patel, Viresh, Anupam Soni, Ankush Sharma, Saikat Chakrabarti, Anju Meghwani, Suresh Chandra Srivastava, A. Srivastava, and J. G. Sreenath.	NA	2024	NA	

999	IEEE Transactions on Power Systems (2024)	State Estimation for Integrated Energy Systems: Motivations, Advances, and Future Work	Zhao, Junbo, Ankur Srivastava, Ye Guo, Dragan Ćetenović, Yuzhang Lin, Victor Levi, Guanxiong Yin et al	NA	2024	NA	
1000	IEEE Robotics and Automation Letters	High-Speed Detector for Low-Powered Devices in Aerial Grasping	Kumar and L. Behera	9	2024	4623 - 4630	
1001	Medical & Biological Engineering & Computing	Session-independent subject-adaptive mental imagery bci using selective filter-bank adaptive riemannian features.	Meenakshinathan, J., Gupta, V., Reddy, T. K., Behera, L., & Sandhan, T	62(11),	2024	3293-3310	
1002	R. Soc. Open Sci	Non-local interaction in discrete Ricci curvature-induced biological aggregation,	J. Beuria and L. Behera	11, no. 9	2024	240794	
1003	Sci Rep 14, 20321 (2024)	Predicting odor from vibrational spectra: a data-driven approach	Ameta, D., Behera, L., Chakraborty, A. et al	NA	2024	NA	
1004	IEEE Transactions on Control Systems Technology	Adaptive Critic Optimal Control of an Uncertain Robot Manipulator With Applications	Prakash, R., Behera, L., & Jagannathan, S	NA	2024	NA	
1005	Educ. Quest- An Int. J. Educ. Appl. Soc. Sci	Pre-service Teacher Education Programme at Elementary Level in Odisha : An Analysis,”		15, no. 1	2024	33–39	

1006	Educ. Quest- An Int. J. Educ. Appl. Soc. Sci	Methodological Insights into Assessing Effectiveness of In-Service Teacher Training Programs: A Meta-Synthesis Approach		15, no. 2	2024	87–103	
1007	International Journal of Indian Psychology, 12(1).	Pre-service Teachers' Locus of Control in relation to Gender, Age and Stream of Education.	Bhati, K., & Behera, L. (2024).	NA	2024	NA	
1008	SAE Int. J. Connect. Autom. Veh	Platooning of Position-Controlled Vehicles on a Curved Path under Communication Losses and Delays	. Bhaskar, P. Wahi, and R. Potluri	7, no. 4	2024		
1009	IFAC-PapersOnLine	Detection and Tracking of Uncooperative Unmanned Aerial Vehicle using a 2-Degree of Freedom Robotic Manipulator	Gupta, D. K. Giri, and T. Tripathy	57	2024	333–338	
1010	IFAC-PapersOnLine	Lyapunov Characterization of Fold Change Detection and Adaptation in Biomolecular Systems	S. S. Chauhan and A. Patel	57	2024	101–105	
1011	IEEE Trans. Affect. Comput	AGILE: Attribute-Guided Identity Independent Learning for Facial Expression Recognition	M. Aquib, N. K. Verma, and M. J. Akhtar		2024	1–16	
1012	IEEE Trans. Artif. Intell	A Comprehensive Exploration of Real-Time 3-D View Reconstruction Methods	Agrawal, T. Sharma, and N. K. Verma	5, no. 12	2024	5915–5927	

1013	IEEE Transactions on Electron Devices	A Physics-Based Model for Oxide–Semiconductor-Based Ferroelectric Field-Effect Transistors	Fu-Xiang Liang, Shubham Kumar, Kai Ni, Wriddhi Chakraborty, Yogesh Singh Chauhan, Hussam Amrouch, Suman Datta, Michael Niemier, Xiaobo Sharon Hu	71	2024	4397 - 4402	
Department of Humanities and Social Sciences							
1014	South Asian Review	Bharati Mukherjee's Politics of Diaspora in The Tiger's Daughter	Bhattacharya, R.;Neelakantan, G.	45(4)	2024	508-523	
1015	Scientific Reports	Early detection of autism spectrum disorder: gait deviations and machine learning	Ganai, U.J.;Ratne, A.; Bhushan, B.; Venkatesh, K.S.	15(1)	2025	873	
1016	Biomedical Signal Processing and Control	A novel symbolic regression-based approach for decoding the impact of meditation on cognitive enhancement using multimodal EEG signal analysis	Singh, S.;Gupta, K.V.; Pachori, R.B.;Behera, L.; Bhushan, B.	106	2025		
1017	IEEE Transactions on Neural Systems and Rehabilitation Engineering	Visual Angles and Emotional Valence Affect Temporal Dynamics of Neural Representations of Facial Expression: An MEG Study	Nara, S.;Rathee, D.;Molinaro, N.;Bhushan, B.;Prasad, G.	33	2025	1-9	

1018	Biomedical Signal Processing and Control	Elevated correlations in cardiac–neural dynamics: An impact of mantra meditation on stress alleviation	Singh S.;Gupta K.V.;Behera L.;Bhushan B.	99	2025		
1019	Autism Research	Facial Expression Databases and Autism Spectrum Disorder: A Scoping Review	Pandey, R.;Bhushan, B.		2025		
1020	Psychological Studies	Underlying Personality Factors Behind Experiencing Shame, Guilt and Remorse	Basu, S.;Bhushan, B.; Dutta, S.		2024		
1021	Frontiers in Human Neuroscience	A comparative study of EEG microstate dynamics during happy and sad music videos	Gupta, A.; Srivastava, C.K.;Bhushan, B.; Behera, L.	18	2024		
1022	Annals of Neurosciences	Broad Autism Phenotype and Gait in Parents of Children With and Without Autism Spectrum Disorder	Ganai, U.J.;Bhushan, B.; Venkatesh, K.S.		2024		
1023	British Journal of Clinical Psychology	Predictive modelling of stress, anxiety and depression: A network analysis and machine learning study	Ganai U.J.;Sachdev S.;Bhushan B.	63	2024	522-542	
1024	Journal of Postcolonial Writing	Homing in: Dom Moraes and the felt community of the dissociated in India	Mukherjee, D.;Chattopadhyay, S.	60(1)	2024	69-83	
1025	AI and Society	Reflections on emerging HCI–AI research	Panda, S.;Roy, S.T.	39(1)	2024	407-409	

1026	World Art	Between presence and absence: signature, signature style and agency of the kalamkari makers	Sengupta, R.	14(3)	2024	257–278	
1027	Phenomenology and the Cognitive Sciences	Agent-environment interaction perspectives to embodied skilled action: driving beyond information-processing models	Singh, P.;Sarma, A.V.R.		2024		
1028	Sexuality Research and Social Policy	Relationship Dynamics and Young Women's Contraceptive Use	Sennott, C.;Chatterjee, E.;Yeatman, S.		2024		
1029	Development in Practice	Rethinking ecofeminism: women's voices in Indian environmentalism	Somokanta, T.	34(8)	2024	1071–1078	
1030	Asian Journal of Social Psychology	'Once an Army man always an Army man': The role of military culture and identity in military to civilian transition	Sachdev, S.;Dixit, S.	28(1)	2025		
1031	Scientific Reports	Psychometric properties of the English and Hindi versions of the Brief Inventory of Thriving for use among Indian adolescents	Syed U.G.;Dixit S.;Kern M.L.	14	2024		

1032	Journal of Management Development	Direct and indirect effects of authentic leadership and gender on occupational well-being: mediating role of perceived barriers to career advancement	Srivastava A.;Dixit S.	43	2024	939-965	
1033	Journal of Psychoeducational Assessment	Evaluating Within-Network and Between-Network Construct Validity of the Hindi Version of the Grit-Short Scale Among Indian Adolescents	Syed, U.G.;Dixit, S.	42(8)	2024	1031–1041	
1034	Psychological Studies	Gender Stigma Consciousness, Imposter Phenomenon, and Self-Silencing: A Mediatlional Relationship	Maji, S.;Dixit, S.	69(4)	2024	375-384	
1035	Qualitative Health Research	Using Structural Competency to Augment Culturally Responsive Research on Mental Health in Neoliberal Context: Ethnographic Reflections	Jain, N., Gupta, A., Sharma, D., Kukreja, S., Priya, K.R.	35(4-5)	2025	433-447	
1036	Social Change	Mental Health Problems Among Migrant Labourers in India	Yadav, S.,Priya, K.R.,Sinha, A.K.	55	2025		
1037	Psychological Studies	On the Legacy of Internal Indigenization Pioneered by Durganand Sinha: Examples from Post-Disaster Spiritual Healing in India	Priya, K.R.;Kukreja, S.	69	2024	74-79	

1038	Theory and Psychology	Rethinking “transfer” in the transgenerational transmission of trauma: A qualitative study of the 1984 anti-Sikh violence	Khanna, A.;Priya, K.R.	34(1)	2024	18-39	
1039	Qualitative Psychology	Healing Among Indian Poor Faced With Distress of Forced Internal Migration: A Qualitative Study	Yadav, S.;Priya, K.R.	11(1)	2024	75-94	
1040	Journal of Vocational Education and Training	Artisanhip of risk: the uncertainty of traditional design	Patil, K.		2025		
1041	Design Issues	Shape of the Design Worldview: Does Language Inform the Design Sense?	Patil, K.	40(3)	2024	88-104	
1042	British Journal of Learning Disabilities	Impact of COVID-19 Pandemic on Children With Intellectual Disabilities and Their Parents: The Perspective of Parents in India	Gogoi P.P.;Jha M.		2025		
1043	Cultural Studies	God’s wealth, legal frames, and the question of material and immaterial heritage: the case of Sree Padmanabhaswamy temple in Kerala, India	Chakrabarti, A.;Dube, A.;Venkatraman, S.	38(5)	2024	794-814	
1044	Profile: Issues in Teachers' Professional Development	Developing English Language Teachers’ Action Research Competencies Through an Exploratory Action Research Project	Pinninti L.R.	27	2025	13-29	

1045	The Electronic Journal for English as a Second Language	The Impact of Peer-Collaborative Strategic Reading and Reflective Journal Writing on Orchestrated Reading Strategy Use and Comprehension	Pinninti L.R.	27	2024		
1046	Sociological Bulletin	The Evicted Tribals of Chhattisgarh: Their Saga of Impoverishment and Marginalisation	Mukherjee, A.; Pattnaik, B.K.	74(2)	2025	132-151	
1047	Energy Research and Social Science	Transitioning away from coal: Perspectives of Indian coal unions on achieving a just transition	Mangang N.N.;Swarnakar P.;Pai S.	118	2024		
1048	Nature and Culture	Climatization and Declimatization Climate Advocacy in Social Sectors	Müller, K.;Goodman, J.;Swarnakar, P.;Pampus, M.	19(1)	2024	1-15	
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1049	Entrepreneurial Busines and Economics Review	A Taxonomy of Blockchain Technology Application and Adoption by Small and Medium-sized Enterprises	Kumar D.; Phani B. V.; Chilamkurti N.; Saurabh S.; Ratten V.	12(3)	2024	141-160	
1050	International Review of Education	Encouraging Ecopreneurship through Lifelong Education: A Qualitative Constructivist Grounded Theory Study.	Potluri s.; Phani B. V.	70(5)	2024	767-794	
1051	Sustainability	Orchestrating Resources in Green Startups: Learning from Case Studies.	Phani B. V.; Bhaskar R.; Bigliardi B.; Ventirini K.	16(22)	2024	9956	

1052	Applied Economics	Life cycle stage as determinant of operational efficiency with implications for benchmarking	Sangwan V.; Kushwaha S.; Prakash P.; Singh A.	56(54)	2024	6954-6971	
1053	Australian Journal of Management.	Pricing Efficiency of European Carbon Futures Market During the COVID-19 Pandemic.	Tripathi A.; Vadhava C.; Jha R. R.		2024		
1054	AIS Transactions on Human-Computer Interaction	Mapping the Evolution of Metaverse Research in Business Domains: A Systematic Literature Review and Future Research Directions.	De S. J.; Chattopadhyay M.	16(4)	2024	429-480	
1055	The BE Journal of Economic Analysis & Policy	Asymmetric Performance Evaluation Under Quantity and Price Competition with Managerial Delegation.	Hamamura J.; Ramani V.	24(3)	2024	701-750	
1056	Scottish Journal of Political Economy	The welfare effect of release timing of relative performance evaluation under quantity competition and asymmetric costs	Hamamura J.; Ramani V.	71(3)	2024	416-438	
1057	European Journal of Operational Research	The bright side of the planning fallacy in distribution channels	Kopel M.; Ranami V.	314(2)	2024	540-551	

1058	Cogent Business and Management	Drivers and outcomes of sustainable marketing strategy in the African context: The role of competitive advantage and strategic proactivity as mediating and moderating variables	Shukla A.; Demessie G.	11(1)	2024	2348442	
1059	Journal of International Food & Agribusiness Marketing	Digital marketing as an enabler of a sustainable food system: The mediating role of relationship marketing	Shukla A.; Gelgile H. K.	36	2024	93-102	
1060	International Journal of Internet Marketing and Advertising	Examining the moderating role of gender and point of purchase platforms on eWOM intentions	Shukla A.; Jain M.; Dixit S.; Sindhu S.	21(1-2)	2024	68-83	
1061	Journal of Business Research	Psychological mechanisms behind access-based luxury brand consumption: Empirical investigation from the lens of new ownership paradigm	Kumar J.	175	2024	Ref. 114539	
1062	Computers & Industrial Engineering	Revenue-Sharing contract with government Subsidy: A case of the Indian sugar supply chain	Rajput R.; Venkataraman S. V.	191	2024	110159	

1063	Annals of Operations Research	A systematic literature review of imperfect quality items: challenges, opportunities, and insights with reference to SDGs	Gautam P.; Maheshwari S.; Hasan A.; Jaggi C. K.		2024	1-49	
1064	Environment, Development and Sustainability	A holistic optimization framework for production, pricing, and preservation of deteriorating products under carbon emission policies	Gautam P.; Kamna K. M.; Jaggi C. K.		2024	1-21	
1065	Aspects of India's Economy	Making Sense of the Present Moment of 'Onlinisation' of Teaching	Varmn R.	83(84)	2024	69-82	
1066	Aspects of India's Economy	Digitalisation of Education: A Dystopian Solution for a Dismal Reality	Varmn R.; Chakrabarti M.	83(84)	2024	29-68	
1067	Managerial and Decision Economics	A decentralized production approach to measure fuel performance of bus transportation systems	Kushwaha S.; Venkatesh A.; Prawesh S.	45(6)	2024	4157–4172	
1068	Journal of Information Science	A review of challenges, algorithms and evaluation methods in news recommendation	Bhattacharya S.; Prawesh S.	0(0)	2024		
1069	Review of Radical Political Economics	A Neoclassical Theory of Labor Exploitation: Some Comments	Basu D.; Das D.; Mukherjee S.		2024		

1070	Sequential Analysis	Estimation of fixed-accuracy confidence interval of the stress-strength reliability for inverse Pareto distribution using two-stage sampling technique	Joshi N.; Bapat S.; Sengupta R. N.	43(1)	2024	79-102	
1071	International Journal of Quality & Reliability Management	Optimal Estimation of Reliability Parameter for Inverse Pareto Distribution with Application to Insurance Data	Joshi N.; Bapat S.; Sengupta R. N.	41 (7)	2024	1811-1837	
1072	Sequential Analysis	Sequential Estimation for the Multiple Linear Regression Models with Balanced Loss Functions	Sengupta R. N.; Bapat S.; Joshi N.	43 (2)	2024	211-232	
1073	Metrika	Two-stage and purely sequential minimum risk point estimation of the scale parameter of a family of distributions under modified LINEX loss plus sampling cost	Joshi N.; Bapat S.; Sengupta R. N.	NA	2024	NA	
1074	Journal of Aerospace Engineering	Aerodynamic Parameter Estimation for Near-Stall Maneuver Using Neural Networks and Artificial Bee Colony Algorithm	Kumar P.; Sonkar S.; George R. C.; Philip D.; Ghosh A. K.	37(5)	2024	04024060	

1075	International Journal of Tourism Research	Cognitive-Affective-Behavioral Themes in Post-Purchase Attitudes Toward Virtual Tourism Experiences: A Mixed-Method Approach.	Baruah A.; Chatterjee D.	26(6)	2024	e2811	
1076	Technological Forecasting and Social Change	Analyzing the Role of Digital Twins in Developing a Resilient Sustainable Manufacturing Supply Chain: A Grey Influence Analysis (GINA) Approach	Singh G.; Rajesh R.; Misra S. C.	209	2024	123763	
1077	Operations Management Research	Electric Vehicle Adoption and Sustainability: Insights from the Bibliometric Analysis, Cluster Analysis, and Morphology Analysis	Singh G.; Misra S. C.; Daultani Y.; Singh S.	17(2)	2024	635-659	
1078	Global Journal of Flexible Systems Management	Leveraging Additive Manufacturing for Enhanced Supply Chain Resilience and Sustainability: A Strategic Integration Framework.	Singh S.; Misra S. C.; Singh G.	25(2)	2024	343-368	
1079	Business Strategy and the Environment.	Greening the Supply Chain: Leveraging Additive Manufacturing for Sustainable Risk Management	Singh S.; Misra S. C.; Singh G.	33(8)	2024	8233-8246	

1080	Journal of Environmental Management	Understanding Green Procurement Dynamics: An Assessment Framework for Public Sector Organizations	Singh S.; Singh G.; Singh S.; Misra S. C.	351	2024	119756	
1081	Multimedia Tools and Applications	A Machine Learning Based Personalized Yoga Asanas Recommendation Engine	Umrao M.; Bansal V.	84	2024	765-780	
1082	Computers in Human Behavior: Artificial Humans	AI as Decision Aid or Delegated Agent: The Effects of Trust Dimensions on the Adoption of AI Digital Agents	Pathak A.; Bansal V.	2(2)	2024	100094	
1083	Energy Economics	A critique of the inappropriate interpretation of the quantile connectedness approach by.	Tripathi A.; Vadhava C.; Jha R. R.	143	2025	108291	
1084	Communications of the Association for Information Systems	Privacy in Personalized Advertising: A Comprehensive Review and Future Agenda	De S. J.; Chattopadhyay M.	56	2025	305-342	
1085	International Journal of Economic Theory	Biased manager aggressiveness, understated profits, tax pass-through, and tax incidence in a differentiated duopoly	Wang L. F.; Wu D.; Ramani V.	21(1)	2025	121-137	
1086	International Game Theory Review	Simultaneous and Sequential abatement in a differentiated duopoly under linear and quadratic cost	Chandran A.; Wang L. F.; Ramani V.		2025		

1087	Journal of the Operational Research Society	To burn or not to burn: sustainable decisions for net-zero in agricultural supply chain.	Samal P.; Venaktaraman S. V.		2025	1-26	
1088	Behavior Research Methods	The simulation-cum-ROC approach: A new approach to generate tailored cutoffs for fit indices through simulation and ROC analysis.	Groskurth; Katharina; Bhaktha N.; Clemens M. Lechner	57	2025	1-28	
1089	International Journal of Intercultural Relations	Cultural identity development in adult forced migrants: The psychometrics of a measure in Arabic, Spanish, and Ukrainian.	Maehler D. B.; Bhaktha N.; Pöttschke S.; Ramos, H.	105	2025	102134	
1090	Asia Pacific Journal of Information Systems	Design and Evaluation of News Recommender System: A Variety Seeking Perspective	Bhattacharya S.; Prawesh S.	35(1)	2025	146-176	
1091	Economic Development and Cultural Change	Alcohol Prohibition and Intimate Partner Violence: Evidence from an Indian State	Dixit M.; Mukherjee S.		2025		
1092	Asian Journal of Control	Data-driven Approach for Estimating Longitudinal Aerodynamic Parameters using Neural Artificial Bee Colony Fusion Algorithm	Kumar P.; Sonkar S. K.; George R. C.; Philip D.; Ghosh A. K.	27(1)	2025	76-98	

1109	Statistical Papers	Equivariant estimation of the selected location parameter	Masihuddin; Misra N.	65	2024	1733-1771	
1100	Statistical Papers	A unified study for estimation of order restricted parameters of a general bivariate model under the generalized Pitman nearness criterion	Garg N.; Misra N.	65	2024	1947-1983	
1101	Quality and Reliability Engineering International	Step-stress life-testing under tampered random variable modeling for Weibull distribution in presence of competing risk data	Sultana F.; Çetinkaya Ç.; Kundu D.	40	2024	1382-1402	
1102	Journal of Number Theory	On the integrality of locally algebraic representations of $GL_{\infty}(D)$	Nadimpalli S.; Sheth M.	257	2024	124-145	
1103	Signal Processing	On robust method of estimation in polynomial-sinusoidal regression	Kundu D.	217	2024		
1104	Journal of Mathematical Analysis and Applications	Magnetic fractional Poincaré inequality in punctured domains	Bal K.; Mohanta K.; Roy P.	535	2024		
1105	Advanced Modeling and Simulation in Engineering Sciences	Fast rapidly convergent penetrable scattering computations	Paul J.; Pandey A.; Rathish Kumar B.V.; Anand A.	11	2024		
1106	Annals of Operations Research	Two sample Bayesian acceptance sampling plan	Prajapati D.; Mondal S.; Kundu D.	340	2024	425-449	

1107	Mathematical Biosciences	Delay epidemic models determined by latency, infection, and immunity duration	Saade M.; Ghosh S.; Banerjee M.; Volpert V.	370	2024		
1108	Journal of Pure and Applied Algebra	On some central operators for loop Lie superalgebras	Mukherjee S.; Pattanayak S.; Sharma S.S.	228	2024		
1109	Linear Algebra and Its Applications	A spectral dichotomy for commuting m -isometries with negative core operator	Bera S.; Chavan S.; Ghara S.	688	2024	244-255	
1110	Communications in Nonlinear Science and Numerical Simulation	Non-smooth dynamics of a fishery model with a two-threshold harvesting policy	Bhattacharyya J.; Banerjee M.; Banerjee S.	133	2024		
1111	Nonlinear Dynamics	Singular Bautin bifurcation analysis of a slow–fast predator–prey system	Tapan Saha; Pranali Roy Chowdhury; Pallav Jyoti Pal; Malay Banerjee	112	2024	7695-7713	
1112	Discrete and Continuous Dynamical Systems - Series B	SPATIO-TEMPORAL DYNAMICS IN A DIFFUSIVE BAZYKIN MODEL: EFFECTS OF GROUP DEFENSE AND PREY-TAXIS	Dey S.; Banerjee M.; Ghorai S.	29	2024	2497-2531	
1113	Bulletin of Mathematical Biology	Combinatorial Cooperativity in miR200-Zeb Feedback Network can Control Epithelial–Mesenchymal Transition	Rashid M.; Devi B.M.; Banerjee M.	86	2024		
1114	Proceedings of the American Mathematical Society	Convergence of power sequences of B -operators with applications to stability	Chavan S.; Jabłoński Z.J.; Jung I.B.; Stochel J.	152	2024	2035-2050	

1115	Signal Processing	Model order estimation in multi-component chirp signals	Shukla A.; Kundu D.; Mitra A.	221	2024		
1116	Nonlinear Analysis: Real World Applications	Threshold dynamics of an age-structured vaccinated epidemic model with both direct and indirect routes of infections	Das R.; Das D.K.; Kar T.K.; Agarwal R.P.	76	2024		
1117	Mathematics and Computers in Simulation	Qualitative analysis of TB transmission dynamics considering both the age since latency and relapse	Riya Das; Dhiraj Kumar Das; Tapan Kumar Kar	225	2024	939-967	
1118	Mathematical Biosciences	Does mutual interference stabilize prey–predator model with Bazykin–Crowley–Martin trophic function?	Tyutyunov Y.; Sen D.; Banerjee M.	372	2024		
1119	CAD Computer Aided Design	Neural PDE Solvers for Irregular Domains	Khara B.; Herron E.; Balu A.; Gamdha D.; Yang C.H.; Saurabh K.; Jignasu A.; Jiang Z.; Sarkar S.; Hegde C.; Ganapathysubramanian B.; Krishnamurthy A.	172	2024		
1120	Integral Equations and Operator Theory	On Commutators of Compact Operators: Generalizations and Limitations of Anderson’s Approach	Loreaux J.; Patnaik S.; Petrovic S.; Weiss G.	96	2024		

1121	Acta Applicandae Mathematicae	Spatio-Temporal Steady-State Analysis in a Prey-Predator Model with Saturated Hunting Cooperation and Chemotaxis	Han R.; Dey S.; Huang J.; Banerjee M.	191	2024		
1122	Journal of mathematical biology	A two-timescale model of plankton-oxygen dynamics predicts formation of oxygen minimum zones and global anoxia	Roy Chowdhury P.;Banerjee M.;Petrovskii S.	89	2024	8	
1123	Physica D: Nonlinear Phenomena	On the structural sensitivity of some diffusion–reaction models of population dynamics	Manna K.;Banerjee M.;Petrovskii S.	467	2024		
1124	Statistics and Computing	Testing the goodness-of-fit of the stable distributions with applications to German stock index data and Bitcoin cryptocurrency data	Khan R.A.;Pal A.;Kundu D.	34	2024		
1125	Discrete and Continuous Dynamical Systems - Series B	BIFURCATIONS OF HIGHER CODIMENSION IN A PREY-PREDATOR MODEL WITH GENERALIST PREDATOR	Banerjee M.;Huang J.;Pan Q.;Zou L.	29	2024	3744-3774	
1126	Journal of Mathematical Biology	Prey group defense and hunting cooperation among generalist-predators induce complex dynamics: a mathematical study	Jyotirmoy Roy;Subrata Dey;Bob W. Kooi;Malay Banerjee	89	2024		

1127	Symmetry	Modeling the Nonmonotonic Immune Response in a Tumor–Immune System Interaction	Liu Y.;Ma Y.;Yang C.;Peng Z.;Takeuchi Y.;Banerjee M.;Dong Y.	16	2024		
1128	Journal of Pure and Applied Algebra	On the order types of hammocks for domestic string algebras	Sardar S.;Kuber A.	228	2024		
1129	Communications in Nonlinear Science and Numerical Simulation	Spatially heterogeneous eco-epidemic model: Stabilizing role of non-local disease transmission	Dey S.;Das D.K.;Ghorai S.;Banerjee M.	138	2024		
1130	Journal of Fourier Analysis and Applications	The Fourier Transform on Rearrangement-Invariant Spaces	Kerman R.;Rawat R.;Singh R.K.	30	2024		
1131	Operators and Matrices	SINGLY GENERATED SELFADJOINT–IDEAL OPERATOR SEMIGROUPS: SPECTRAL DENSITY OF THE GENERATOR AND SIMPLICITY	Patnaik S.;Sanehlata ;Weiss G.	18	2024	479-522	
1132	Journal of Operator Theory	Joint complete monotonicity of rational functions in two variables and toral m-isometric pairs	Akash Anand, Sameer Chavan, Rajkamal Nailwal	92	2024	101-130	
1133	Physica D: Nonlinear Phenomena	Behavior-induced phase transitions with far from equilibrium patterning in a SIS epidemic model: Global vs non-local feedback	Banerjee M.;Volpert V.;Manfredi P.;d'Onofrio A.	469	2024		

1134	Chaos	The timeline of overseas imported cases acts as a strong indicator of dengue outbreak in mainland China	Abdalgader T.;Zheng Z.;Banerjee M.;Zhang L.	34	2024		
1135	Asymptotic Analysis	Nonlinear elliptic eigenvalue problems in cylindrical domains becoming unbounded in one direction	Rawat R.;Roy H.;Roy P.	139	2024	245-277	
1136	PLoS ONE	Effect of vaccine dose intervals: Considering immunity levels, vaccine efficacy, and strain variants for disease control strategy	Ghosh S.;Banerjee M.;Chattopadhyay A.K.	19	2024		
1137	ZAMM	Convective Heat Transport Analysis of Hybrid Nanofluid in an Inverted T-Shaped Porous Enclosure Under Various Locations of Circular Cylinder	Sumant and B. V. Rathish Kumar and S. K. Murthy and Deepika		2024		
1138	International Journal of Computer Mathematics	Superconvergent Jacobi Spectral Methods for System of Volterra Integral Equations for Mixed Type Kernel	Rakesh Kumar and Kapil Kanth and B. V. Rathish Kumar		2024		
1139	Advances in Applied Mathematics and Mechanics	Modified Galerkin Method for Derivative Dependent Fredholm–Hammerstein Integral Equations of Second Kind	Kant K.;Das P.;Nelakanti G.;Kumar R.	16	2024	905-926	

1140	Applied Numerical Mathematics	Variational multiscale stabilized finite element analysis of transient MHD Stokes equations with application to multiply driven cavity flow	Rathi A.;Sahoo D.K.;Kumar B.V.R.	198	2024	43-74	
1141	Journal of Nanofluids	Effect of Al ₂ O ₃ -Cu/Water Hybrid Nanofluid on Natural Convection in an Inverted T-Shaped Enclosure	Dey, Sangita and Rathish Kumar, B. V.	13	2024	394--406	
1142	International Journal of Advances in Engineering Sciences and Applied Mathematics	A deep learning-based numerical approach for the natural convection inside a porous media	Kumar, Sumant and Rathish Kumar, B. V. and Krishna Murthy, S. V. S. S. N. V. G.	16	2024	233--243	
1143	Neural Computing and Applications	ANN-based deep collocation method for natural convection in porous media	Kumar S.;Kumar B.V.R.;Murthy S.V.S.S.N.V.G.K.	36	2024	6067-6083	
1144	ZAMM Zeitschrift fur Angewandte Mathematik und Mechanik	Mathematical modeling of convective heat transfer enhancement using circular cylinders in an inverted T-shaped porous enclosure	Kumar S.;Krishna Murthy S.V.S.S.N.V.G.;Kumar B.V.R.;Parmar D.	104	2024		
1145	Applied Mathematics and Computation	Superconvergent scheme for a system of Green nonlinear Fredholm integral equations	Kumar R.;Rathish Kumar B.V.	479	2024		

1146	Computers and Mathematics with Applications	Finite element analysis of a thermal non-equilibrium hybrid nanofluid model for natural convection in a complex porous enclosure	Dey S.;Rathish Kumar B.V.	169	2024	177-194	
1147	Cell reports	Confinement controls the directional cell responses to fluid forces	Amiri F.;Akinpelu A.A.;Keith W.C.;Hemmati F.;Vaghasiya R.S.;Bowen D.;Waliagha R.S.;Wang C.;Chen P.;Mitra A.K.;Li Y.;Mistriotis P.	43	2024	114692	
1148	Methodology and Computing in Applied Probability	A Stationary Proportional Hazard Class Process and its Applications	Kundu D.	26	2024		
1149	Studia Math	Lifting B-subnormal operators	Chavan, Sameer; Jabłoński, Zenon Jan; Jung, Il Bong; Stochel, Jan	277	2024	123–150	
1150	International Mathematics Research Notices	Tate Cohomology of Whittaker Lattices and Base Change of Generic Representations of GL_n	Nadimpalli S.;Dhar S.	2024	2024	12761-12795	
1151	iScience	Inhibition of proteolytic and ATPase activities of the proteasome by the BTK inhibitor CGI-1746	Akintola O.A.;Patterson M.B.;Smith J.G.;DeMartino G.N.;Mitra A.K.;Kisselev A.F.	27	2024		
1152	International Journal of Numerical Methods for Heat and Fluid Flow	Entropy generation in a partially heated hybrid nanofluid saturated wavy porous cavity	Barman, P. and Pentyala, S. R. and Rathish Kumar, B. V.	34	2024	1060–1086	

1153	IMRN	The higher structure of unstable homotopy groups	Samik Basu, David Blanc, Debasis Sen		2024		
1154	SIAM Journal on Mathematical Analysis	On Fully Nonlinear Parabolic Mean Field Games with Nonlocal and Local Diffusions	Indranil Chowdhury, Espen R. Jakobsen, Milosz Krupski		2024		
1155	Dynamic Games and Applications	Discretization of Fractional Fully Nonlinear Equations by Powers of Discrete Laplacians	Indranil Chowdhury, Espen R. Jakobsen & Robin Ø Lien		2024		
1156	IMA Journal of Numerical Analysis	Precise error bounds for numerical approximations of fractional HJB equations	Indranil Chowdhury, Espen R. Jakobsen		2024		
1157	Physica Scripta	Analysis of a chronological age-structured epidemic model with a pair of optimal treatment controls	Riya Das;Dhiraj Kumar Das;T K Kar	99	2024		
1158	Journal of Hydrometeorology	Unraveling Subseasonal Drought Dynamics in India: Insights from NCMRWF Extended Range Prediction System	Kumar K.N.;Gupta A.;Mohan T.S.;Mishra A.K.;Ashrit R.;Momin I.M.;Mahapatra D.K.;Rao D.N.;Mitra A.K.;Prasad V.S.;Rajeevan M.	25	2024	1191-1207	
1159	PLoS ONE	The role of soil surface in a sustainable semiarid ecosystem	Pal S.;Banerjee M.;Melnik R.	19	2024		

1160	Physics Letters, Section A: General, Atomic and Solid State Physics	Multi-physics study on double-diffusion convective flow in an inverted T-shaped porous enclosure: ANN-based parametric estimation	Kumar S.;Murthy S.V.S.S.N.V.G.K.;Kumar B.V.R.;Parmar D.	518	2024		
1161	International Journal of Mechanical Sciences	Thermo-magnetic radiative flow in porous enclosure with deep-learning parameter estimation	Kumar S.;Murthy S.V.S.S.N.V.G.K.;Kumar B.V.R.;Parmar D.	276	2024		
1162	European Journal of Mechanics, B/Fluids	Tertiary wake mode in flows past elliptic cylinders	Kumar D.;Kumar B.	106	2024	130-136	
1163	Journal of the Brazilian Society of Mechanical Sciences and Engineering	A comprehensive review on CFD simulations of left ventricle hemodynamics: numerical methods, experimental validation techniques, and emerging trends	Soni P.;Kumar S.;Kumar B.V.R.;Rai S.K.;Verma A.;Shankar O.	46	2024		
1164	Mathematics and Computers in Simulation	Dynamics of infectious diseases in predator–prey populations: A stochastic model, sustainability, and invariant measure	Gao Y.;Banerjee M.;Ta T.V.	227	2025	103-120	
1165	Journal of Algebra	Graded picture invariants and polynomial invariants for mixed tensor superspaces	Pattanayak S.;Samuel P.	661	2025	595-621	

1166	Bioactive Materials	Hydrogel microsphere stem cell encapsulation enhances cardiomyocyte differentiation and functionality in scalable suspension system	Hashemi M.;Finklea F.B.;Hammons H.;Tian Y.;Young N.;Kim E.;Halooin C.;Trieibert W.;Zweigerdt R.;Mitra A.K.;Lipke E.A.	43	2025	423-440	
1167	Test	A semiparametric approach for simple step-stress model	Pal A.;Samanta D.;Kundu D.	34	2025	91-124	
1168	Journal of Mathematical Analysis and Applications	On fractional Orlicz-Hardy inequalities	Anoop T.V.;Roy P.;Roy S.	543	2025		
1169	International Journal for Computational Methods in Engineering Science and Mechanics	A variational multiscale stabilized finite element method for double diffusive incompressible flow with application to mixed convection in a heated staggered cavity under magnetic field	Sahoo D.K.;Rathish Kumar B.V.	26	2025	140-154	
1170	Remote Sensing Applications: Society and Environment	Assessment of Dry Microburst Index over India derived from INSAT-3DR satellite	Gupta P.;Singh N.;Giri R.K.;Mitra A.K.	37	2025		
1171	Applied Mathematical Modelling	Dynamics of delay epidemic model with periodic transmission rate	Saade M.;Ghosh S.;Banerjee M.;Volpert V.	138	2025		
1172	Geometriae Dedicata	Isoperimetric inequality for disconnected regions	Sanki B.;Vadnere A.	219	2025		

1173	Journal of Earth System Science	Multitechnique investigation of the prevailing atmospheric parameters for the Odisha lightning catastrophe on 2 September 2023: A case study: Multitechnique investigation of the prevailing atmospheric parameters for the Odisha...: G. Rakshit et al.	Rakshit G.;Mitra A.K.;Krishnan K.C.S.	134	2025		
1174	Chaos, Solitons and Fractals	Nonequilibrium dynamics in a noise-induced predator–prey model	Pal S.;Banerjee M.;Melnik R.	191	2025		
1175	Theoretical and Applied Climatology	Evaluation of INSAT-3DR sounder derived wind index using radiosonde observation over India	Singh N.;Vinayak Shukla M.;Lohan N.;Mitra A.K.;Giri R.K.	156	2025		
1176	Extremes	A utopic adventure in the modelling of conditional univariate and multivariate extremes: EVA (2023) Conference Data Challenge: Team Yahabe	Belzile L.R.;Hazra A.;Yadav R.	28	2025	173-207	
1177	Statistics	A note on simultaneous estimation of order restricted location parameters of a general bivariate symmetric distribution under a general loss function	Garg N.;Misra N.	59	2025	388-401	

1178	Linear Algebra and Its Applications	Mixed tensor invariants of Lie color algebra	Pattanayak S.;Samuel P.	709	2025	17-Jan	
1179	International Mathematics Research Notices	Representation Zeta Functions of Groups of Type A_{2n} in Positive Characteristic	Onn U.;Prasad A.;Singla P.	2025	2025		
1180	International Journal of Numerical Methods for Heat and Fluid Flow	Mixed convection in a partially and differentially heated cavity – a finite volume complete flux analysis	Rathish Kumar B.V.;Pandey C.		2025		
1181	Advances in Applied Probability	The spread of an epidemic: a game-theoretic approach	Karmakar S.;Podder M.;Roy S.;Sadhukhan S.		2025		
1182	Bulletin of the Korean Mathematical Society	THE MAXIMUM PRINCIPLE IN AN ASYMMETRIC WEIGHTED DIRECTED NETWORK	Banerjee M.;Ling Z.;Zhou Y.	62	2025	111-119	
1183	Proceedings of the American Mathematical Society	TWISTED JACQUET MODULES: A CONJECTURE OF D. PRASAD	Nadimpalli S.;Sheth M.	153	2025	1349-1361	
1184	Canadian Mathematical Bulletin	Hilbert's 10 th Problem via Mordell curves	Jha S.;Kundu D.;Majumdar D.		2025		
1185	Haceteppe Journal of Mathematics and Statistics	Inference for two Weibull populations under joint generalized progressive type-I hybrid censoring with a simulation study and applications	Sultana F.;Çetinkaya Ç.;Kundu D.	54	2025	263-290	
1186	Sankhya B	Absolutely Continuous Semi-parametric Bivariate Distributions	Samanta D.;Kundu D.		2025		

1187	Journal of the Australian Mathematical Society	RELATIVE POSITION BETWEEN A PAIR OF SPIN MODEL SUBFACTORS	Bakshi K.C.;Guin S.		2025		
1188	International Journal for Numerical Methods in Fluids	Novel Finite-Volume Complete Flux Approximation Schemes for the Incompressible Navier–Stokes Equations	Pandey C.;ten Thijs Boonkkamp J.H.M.;Rathish Kumar B.V.	97	2025	409-425	
1189	Applied Numerical Mathematics	Superconvergent scheme for a system of green Fredholm integral equations	Kumar R.;Kant K.;Kumar B.V.R.	207	2025	254-271	
1190	Infinite Dimensional Analysis, Quantum Probability and Related Topics	A few remarks on intermediate subalgebras of an inclusion of C^* -algebras	Bakshi K.C.; Guin S.; Jana D.		2025		
1191	International Journal of Heat and Fluid Flow	Numerical simulation of fractional order double diffusive convective nanofluid flow in a wavy porous enclosure	Deepika Parmar and S.V.S.N.V.G. Krishna Murthy and B.V. Rathish Kumar and Sumant Kumar	112	2025	109749	
1192	Applied Numerical Mathematics	Superconvergent scheme for a system of green Fredholm integral equations	Rakesh Kumar; Kapil Kant; B.V. Rathish Kumar	207	2025	254-271	
1193	Electronic Journal of Statistics	Multivariate strong invariance principles in Markov chain Monte Carlo	Banerjee A.; Vats D.	18	2024	2450-2476	
1194	International Journal of Mathematics	A family of subfactors arising from a pair of complex Hadamard matrices	Bakshi K.C.; Guin S.	36	2025		

1195	J. Noncommut. Geom.	Von Neumann entropy of the angle operator between a pair of intermediate subalgebras	Bakshi K.C.; Guin S.; Pal B.		2025		
1196	Communications in Algebra	A note on injectivity of monomial algebras	Buhphang A.M.; Goswami R.; Kuber A.	53	2025	2018-2024	
1197	Algebras and Representation Theory	Hammocks for non-domestic string algebras	Sinha V.; Kuber A.; Sengupta A.; Kale B.	27	2024	1869-1908	
1198	Theory of Probability and Mathematical Statistics	Characterization of the least squares estimator : mis-specified multivariate isotonic regression model with dependent error	Bagchi, P.; Dhar, S. S.	110	2024	143-158	
1199	Annals of Data Science	Statistical Data-Driven Modelling and Forecasting: An Application to COVID-19 Pandemic	Shalabh; Dhar, S. S.; Rajeshbhai, S. P.		2024		
1200	Journal of Applied Non-Classical Logics	Some algebras and logics from quasiorder-generated covering-based approximation spaces	Kumar, A.; Banerjee, Mohua	34	2024	248-268	
1201	Modeling, Analysis and Simulations of Multiscale Transport Phenomena	Global martingale solutions to a segregation cross-diffusion system with stochastic forcing	Biswas, M.; Juengel, A.		2024		
1202	Mathematical Control and Related Field	Local controllability to the trajectories of the Gray-Scott system.	Bapu., M.; Biswas, M.		2025		
1203	Journal of Stochastic Analysis	Weak Solutions of SPDEs in the space of Tempered distributions	Bhar S.; Sarkar B.	5	2025		

1204	International Journal of Game Theory	Domains where the uniform rule is well behaved	Roy S.; Sadhukhan S.	53	2024		
Department of Mechanical Engineering							
1205	Mechanics of Advanced Composite Structures	Initial Buckling Behavior of Elastically Supported Rectangular FGM Plate based on Higher Order Shear Deformation Theory via Spline RBF Method	Kumar R.;Sharma H.K.;Gupta S.;Malguri A.;Rajak B.;Srivastava Y.;Khan S.;Pandey A.	11	2024	59-72	
1206	International Journal of Heat and Mass Transfer	Modeling binary collision of evaporating drops	Pal A.K.;Sahu K.C.;Biswas G.	221	2024		
1207	Tribology International	Influence of MWCNTs, ZnO, and boric acid nanomaterial blend on the tribological and thermal properties of lithium grease	Prasad D.K.;Tiwari S.;Amarnath M.;Chelladurai H.;Vardhaman B.S.A.;Suresh B.;Ramkumar J.;Gupta M.K.	192	2024		
1208	Scientific Reports	Inkjet-printed flexible planar Zn-MnO ₂ battery on paper substrate	Sarma Choudhury S.;Katiyar N.;Saha R.;Bhattacharya S.	14	2024		
1209	Desalination	Scaling up of nanophotonics-enabled solar direct-contact membrane desalination system under ambient condition and sun tracking: Challenges, remedies and performance report	Shakya P.K.;Bhattacharya J.	576	2024		

1210	Fuel	Macroscopic and microscopic spray characterisation of Low-Octane blends for gasoline compression ignition engines	Agarwal A.K.;Krishnamoorthi M.;Singh H.	361	2024		
1211	International Journal of Engineering Science	Interaction of in-plane waves with a structured penetrable line defect in an elastic lattice	Nieves M.J.;Sharma, Basant Lal	197	2024		
1212	ASME Journal of Heat and Mass Transfer	Effect of Finite Thermal Conductivity Bounding Walls on Darcy–Benard Convection	Alam P.;Madanan U.	146	2024		
1213	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Development and characterization of fly ash-ground tire rubber-based abrasive flow finishing media and its performance assessment	Ansari I.A.;Kar K.K.;Ramkumar J.	46	2024		
1214	npj Clean Water	Combined advanced oxidation dye-wastewater treatment plant: design and development with data-driven predictive performance modeling	Chauhan P.S.;Singh K.;Choudhary A.;Brighu U.;Singh S.K.;Bhattacharya S.	7	2024		

1215	Fuel	Dimethyl ether fuelled genset engine development and optimisation of novel fuel injection equipment for improved performance and emissions	Tripathi A.;Valera H.;Agarwal A.K.	367	2024		
1216	Mechanics Research Communications	Evidence of nonlinearity tailoring in static and dynamic responses of honeycomb and auxetic hourglass lattice metastructures	Gupta V.;Adhikari S.;Bhattacharya B.	137	2024		
1217	ASME Journal of Heat and Mass Transfer	Tracing the Academic Lineage of Richard J. Goldstein	Shadid J.;Madanan U.	146	2024		
1218	Computational Materials Science	Mechanical and viscoelastic characterization of Al_2O_3 based polymer nanocomposites: An experimental and molecular dynamics simulation approach	Ain Q.U.;Wani M.F.;Sehgal R.;Singh M.K.	239	2024		
1219	Journal of Applied Physics	Theory and inverse design of microperforated panels comprising arbitrary axial pore profiles for broadband low-frequency sound absorption	Vigneswar O.V.;Chandraprakash C.	135	2024		

1220	CIRP Journal of Manufacturing Science and Technology	Numerical simulation and experimental validation on the mechanism of crater evolution in electrical discharge micromachining	Singh M.;Sharma S.;Ramkumar J.	51	2024	126-144	
1221	Physics of Fluids	Numerical simulation of the interaction between a planar shock wave and a backward-facing triangular bubble containing gases with different Atwood numbers	Thangadurai M.;Kundu A.;Biswas G.	36	2024		
1222	Colloids and Surfaces A: Physicochemical and Engineering Aspects	A comparative study of NH_3 and H_2S sensing performance on monolayer nanosheets through first-principle studies	Yadav A.;Yadav R.;Sinha N.	693	2024		
1223	Tribology International	Tribological and mechanical characterization of carbon-nanostructures based PEEK nanocomposites under extreme conditions for advanced bearings: A molecular dynamics study	Ain Q.U.;Wani M.F.;Sehgal R.;Singh M.K.	196	2024		

1224	Engineering Research Express	Vibration analysis of active composite structures embedded with long and short shape memory alloy (SMA) fibers	Bhaskar J.;Gupta V.;Sharma A.K.;Bhattacharya B.	6	2024		
1225	Journal of Hazardous Materials	Narrow spectrum nano-antibiotic for selective removal of ARB from contaminated water: New insights into stimuli response based on cellular attachment, lysis, and excretion	Raichur A.;Sinha N.	472	2024		
1226	Journal of Micromanufacturing	Evolution of 3d printing technology in fabrication of microfluidic devices and biological applications: a comprehensive review	Saha R.;Sarkar M.;Choudhury S.S.;Kumar H.;Bhatt G.;Bhattacharya S.	7	2024	110-140	
1227	Fluid Dynamics Research	Numerical investigation of water entry of hydrophobic spheres	Singh J.;Pal A.	56	2024		
1228	CIRP Journal of Manufacturing Science and Technology	Design and development of Rotational Magneto Abrasive Flow Finishing setup powered with machine learning tools for nanofinishing of cylindrical double camshaft followers	Manoharan K.;Bhattacharya S.	51	2024	236-251	

1229	Thin-Walled Structures	Inextensional vibrations of thin spherical shells using strain gradient elasticity theory	Yadav R.K.;Gupta S.S.	202	2024		
1230	Geophysical Journal International	A generalized curvilinear solver for spherical shell Rayleigh–Bénard convection	Naskar S.;Chongsiripinyo K.;Mishra S.;Pal A.;Jananan A.	238	2024	631-645	
1231	Applied Thermal Engineering	A review on coolant selection for thermal management of electronics and implementation of multiple-criteria decision-making approach	Chakraborty S.;Shukla D.;Kumar Panigrahi P.	245	2024		
1232	Journal of Molecular Liquids	Enhancement of THF hydrate formation kinetics in the presence of LDH based nanofluid promoter	Ansari A.A.;Ravesh R.;Chakraborty S.;Panigrahi P.K.;Das M.K.	399	2024		
1233	ACS Omega	Image-Based Detection of Adulterants in Milk Using Convolutional Neural Network	Mamgain A.;Kumar V.;Dash S.	9	2024	27158-27168	
1234	Ceramics International	Role of Al_2O_3 reinforcements in polymer-based nanocomposites for enhanced nanomechanical properties: Time-dependent modeling of creep and stress relaxation	Ain Q.U.;Wani M.F.;Sehgal R.;Singh M.K.	50	2024	33817-33838	

1235	Fuel	Experimental Study of Fuel Injection Timing and Exhaust Gas Recirculation for Combustion Control in Diethyl Ether-Diesel Blend Fuelled Tractor Engine	Kalwar A.;Singh A.P.;Agarwal A.K.	371	2024		
1236	Physics of Fluids	In-cylinder flow evolution in the horizontal plane of a motoring compression ignition engine	Jena A.;Agarwal A.K.	36	2024		
1237	Physics of Fluids	Microscopic spray characteristics of diethyl ether-diesel blends under single and split injection strategies	Sonawane U.;Agarwal A.K.	36	2024		
1238	Experimental Thermal and Fluid Science	Characteristics of the jet shear layer of a round elevated jet in crossflow	Gupta J.;Saha A.K.	158	2024		
1239	Journal of Applied Physics	Low-frequency noise attenuation through hybrid perforated hemispherical shells and membrane-type acoustic metamaterial	Katiyar N.;Choudhury S.S.;Kant R.;Bhattacharya S.	136	2024		
1240	Applied Thermal Engineering	Error estimation of Bernardi heat evaluation of Li-ion cells under drive cycle operation	Chauhan V.K.;Bhattacharya J.	254	2024		

1241	Solar Energy	Estimation of best geometric and operational parameters of a nanophotonics-enabled solar membrane desalination system: A numerical investigation	Shakya P.K.;Bhattacharya J.	278	2024		
1242	Physica B: Condensed Matter	Direct ink writing of woodpile-kind alumina phononic crystals for MHz regime	Beniwal S.;Dixit K.;Sinha N.;Chandraprakash C.	691	2024		
1243	International Journal of Hydrogen Energy	Macroscopic jet characteristics of hydrogen and natural gas in direct injection spark ignition engine-like conditions	Kumar D.;Pradeep P.;Agarwal A.K.	80	2024	1328-1338	
1244	Fuel	Effects of fuel injection pressure and quantity on low octane gasoline sprays in a simulated high-pressure ambient environment of a gasoline compression ignition engine	Joe Chintagunti S.;Kumar Agarwal A.	363	2024		
1245	Journal of Instrumentation	Development of indigenous pulse-shape discrimination algorithm for organic scintillation detectors	Karmakar A.;Anil Kumar G.;Bhavika ;Anand V.;Pal A.	19	2024		

1246	SAE International Journal of Sustainable Transportation, Energy, Environment, & Policy	Economic Competitiveness of Battery Electric Vehicles vs Internal Combustion Engine Vehicles in India: A Case Study for Two- and Four-Wheelers	D Kumar, AFN Abdul-Manan, G Kalghatgi, AK Agarwal		2024		
1247	ASME Open Journal of Engineering	Effect of Fuel Injection Strategies on Performance, Regulated and Unregulated Emissions of a Gasoline Compression Ignition Engine	M Krishnamoorthi, H Singh, AK Agarwal		2024		
1248	International Journal of Heat and Mass Transfer	Time-resolved modeling of dropwise condensation patterns formed on a nanopillared substrate	Raza W.;Muralidhar K.	234	2024		
1249	Cold Regions Science and Technology	High strain-rate behavior of polycrystalline and granular ice: An experimental and numerical study	Pandey S.;Sharma I.;Parameswaran V.	227	2024		
1250	Engineering Fracture Mechanics	A fibre direction informed continuum damage model with enriched kinematics for modelling matrix cracking in composites	Kumar M.;Mukhopadhyay S.	309	2024		

1251	Sadhana - Academy Proceedings in Engineering Sciences	Influence of non-stoichiometric solutions on the THF hydrate growth: chemical affinity modelling and visualization	Ravesh R.;Ansari A.A.;Mohapatra S.;Sharma P.;Das M.K.;Panigrahi P.K.	49	2024		
1252	Surfaces and Interfaces	Rapid surface modification of PEEK by ambient temperature sulfonation for high shelf-life biomedical applications	Pandey M.;Mairal A.;Gupta H.;Kumar A.;Bhattacharya S.	54	2024		
1253	Journal of Consumer Marketing	Effects of bimanual vs unimanual motor actions on consumer behavior intention and attitude	Ramchandani M.;Bhattacharya S.;Coste-Maniere I.	41	2024	693-705	
1254	Physics of Fluids	Splashing impact of a falling liquid drop	Paul A.;Pal A.K.;Wang A.B.;Biswas G.	36	2024		
1255	Chemical Engineering Journal	Supercapacitor electrodes based on Ru/RuO ₂ decorated on N,S-doped few-layer graphene	Kumar M.;Kar K.K.;Paik P.	499	2024		
1256	Journal of Polymer Research	Boron nitride nanosheets/epoxy nanocomposites with high thermal conductivity and high dielectric constant for energy storage applications	Bharti B.M.;Dixit K.;Sinha N.	31	2024		
1257	Physics of Fluids	Oblique collision of two evaporating drops	Pal A.K.;Zaleski S.;Biswas G.	36	2024		

1258	Scientific reports	Bandgap formation mechanism in tacticity inspired elastic mechanical metastructures	Dwivedi A.;Munian R.K.;Bhattacharya B.;Adhikari S.	14	2024	24611	
1259	Additive Manufacturing	Material extrusion additive manufacturing of graphene oxide reinforced 13–93B1 bioactive glass scaffolds for bone tissue engineering applications	Dixit K.;Vishwakarma A.;Kumar H.;Kim K.;Sinha N.	94	2024		
1260	Physics of Fluids	Numerical study of two equal-sized miscible drops undergoing head-on collision	Singh S.;Saha A.K.	36	2024		
1261	International Communications in Heat and Mass Transfer	A mechanism for the bubble formation during evaporative crystallization of saline droplets below boiling point	Kumar N.C.;Kumar V.	159	2024		
1262	International Communications in Heat and Mass Transfer	Metallic hydrophobic surfaces: Fabrication methods and applications in water vapor condensation	Kataria S.;Sikarwar B.S.;Rathore P.K.S.;Upadhyay S.;Muralidhar K.	159	2024		
1263	Physics of Fluids	Spatiotemporal structure of flow field by a dielectric-barrier-discharge plasma actuator using phase-resolved particle image velocimetry	Mishra B.K.;Panigrahi P.K.	36	2024		

1264	Physical Review E	Dipole-to-monopole-flow transition in bubbly thermal convection	Lakkaraju R.;Chandraker D.K.;Biswas G.	110	2024		
1265	Applied Energy	Effect of ambient pressure on macroscopic and microscopic spray characteristics of gasoline-diesel blends for gasoline compression ignition engine applications	Chintagunti S.J.;Agarwal A.K.	376	2024		
1266	Applied Thermal Engineering	Laser ignition versus conventional spark ignition system performance for hydrogen-enriched natural gas-air mixtures in a constant volume combustion chamber	Kumar D.;Agarwal A.K.	257	2024		
1267	Physics of Fluids	Fundamental studies of liquid fuel fraction and droplet diameter distribution of diethyl ether using a double injection strategy	Sonawane U.;Jena A.;Mishra Y.N.;Agarwal A.K.	36	2024		
1268	Physical Review Fluids	Granular flows over normally vibrated inclined bases	Sonar P.;Bhateja A.;Sharma I.	9	2024		
1269	Physics of Fluids	Dynamics of drop impact and contact line motion on micro-pillared surfaces	Dwivedi R.K.;Muralidhar K.	36	2024		

1270	Water Environment Research	Advanced neutralization technique for the treatment of highly acidic wastewater from steel rolling mills of western Rajasthan	Tatiya S.;Maurya S.;Pandey M.;Bhattacharya S.	96	2024		
1271	Inverse Problems	Inverse source problem for discrete Helmholtz equation	Novikov, Roman and Sharma, Basant Lal	40	2024	105005	
1272	Materials Today: Proceedings	Hydrate growth at the guest-water interface in the presence of surfactant on the cyclopentane droplet	Ravesh, Randeep and Ahamad Ansari, Ayaj and Kumar Panigrahi, Pradipta and Kumar Das, Malay		2024		
1273	Applied Energy	A hybrid battery thermal management system using ionic wind and phase change material	Kumar, Rishav and Panigrahi, Pradipta Kumar	359	2024	122676	
1274	Journal of Materials Engineering and Performance	Influence of Soaking Time on Microstructural, Machinability, and Mechanical Properties of Al-10Si-0.3Mg Alloy Fabricated by Direct Powder Forging	Dwivedi A.;Singh M.;Ramkumar J.;Gangolu S.	34	2025	4039-4053	
1275	Physica B: Condensed Matter	Enhancement of supercapacitor efficiency by Fe ³⁺ doping in hydrothermally synthesized NiO nanoparticles	Upadhyay L.;Dhanapandian S.;Suthakaran S.;Yadav B.;Kar K.K.;Kumar D.	696	2025		

1276	Combustion and Flame	Effects of noise intensity on early warning indicators of thermoacoustic instability: An experimental investigation on a lean-premixed combustion system	Vishnoi N.;Steinert R.;Saurabh A.;Paschereit C.O.;Kabiraj L.	272	2025		
1277	International Communications in Heat and Mass Transfer	Addressing the Nusselt number divergence across varied fluid–solid combinations in Darcy–Bénard convection	Alam P.;Madanan U.	161	2025		
1278	International Journal of Heat and Fluid Flow	Direct numerical simulation of turbulent flow over a wall-mounted cube placed inside a channel	Khan B.A.;Saha A.K.	112	2025		
1279	Journal of Energy Storage	Recent advancement of supercapacitors: A current era of supercapacitor devices through the development of electrical double layer, pseudo and their hybrid supercapacitor electrodes	Banerjee S.;Mordina B.;Sinha P.;Kar K.K.	108	2025		

1280	Chemical Engineering Journal	Cost-effective synthesis route for ultra-high purity of Ti_3AlC_2 MAX phase with enhanced performance of $\text{Ti}_3\text{C}_2\text{Tx}$ MXene and MXene/NiO composite for supercapacitor application	Verma K.D.;Kar K.K.	504	2025		
1281	IEEE Transactions on Nanotechnology	On the Importance of the Metal Catalyst Layer to the Performance of CNT-Based Supercapacitor Electrodes	Chatterjee K.;Kumar V.;Agnihotri P.K.;Basu S.;Gupta N.	24	2025	48-53	
1282	Thermal Science and Engineering Progress	Experimental evidence of robust cyclic stability and sluggish thermal inertia of a heat storage system based on organic phase change material embedded with CuO nanoparticles	Sachan D.;Bhattacharya J.	57	2025		
1283	Multiscale Modeling and Simulation	SURFACE WAVES IN RANDOMLY PERTURBED DISCRETE MODELS	Garnier J.;Sharma B.L.	23	2025	158-186	

1284	Inorganic Chemistry Communications	Engineering novel nanomaterials for energy storage: NiO/CuO/ α -Fe $_2$ O $_3$ nanocomposites synthesized via hydrothermal method	Upadhyay L.;Dhanapandian S.;Suthakaran S.;Yadav B.;Kar K.K.;Kumar D.;Sundaramurthy S.	173	2025		
1285	Journal of Materials Science: Materials in Electronics	Investigation of physicochemical and electrochemical traits of hydrothermally synthesized α -Fe $_2$ O $_3$ nanoparticles for supercapacitor performance	Upadhyay L.;Dhanapandian S.;Suthakaran S.;Yadav B.;Kar K.K.;Kumar D.;Arikrishnan J.	36	2025		
1286	Applied Acoustics	Analysing the bayan drum; its tuning, and its bols from a musical standpoint	Ashok S.;Tiwari N.	231	2025		
1287	Applied Radiation and Isotopes	Neutron-gamma pulse shape discrimination for organic scintillation detector using 2D CNN based image classification	Karmakar A.;Pal A.;Anil Kumar G.;Bhavika ;Vivek ;Tyagi M.	217	2025		
1288	Experimental Mechanics	Investigating De-Bonding Using an Impact Loaded Blister Test	Devi S.;Parameswaran V.		2025		

1289	Fibers and Polymers	Superior Mechanical and Visco-elastic Properties of Fly-Ash Filled Woven Glass Fabric Reinforced Phenolic Composite and their Correlation with Interfacial Interaction Parameters	Mishra S.;Kumar R.;Kumar R.;Verma V.;Kar K.K.		2025		
1290	Journal of Radioanalytical and Nuclear Chemistry	Thickness dependent sensitivity of GAGG:Ce scintillation detectors for thermal neutrons: GEANT4 simulations and experimental measurements	Karmakar A.;Kumar G.A.;Tyagi M.;Pal A.		2025		
1291	Journal of Applied Fluid Mechanics	Experimental Investigations of Self-adjusting Bionic Flaps on Low-aspect Ratio Wings	Verma A.;Kulkarni V.;Shinde S.	18	2025	992-1006	
1292	IEEE Transactions on Automatic Control	New Method for SISO Strong Stabilization with Advantages Over Nevanlinna-Pick Interpolation	Faruqi A.H.;Chatterjee A.		2025		
1293	International Journal of Dynamics and Control	Trajectory tracking of a 2PRU-1PRS manipulator for road-transport applications	Mishra A.;Ghosh P.;Tiwari N.	13	2025		
1294	International Journal of Fracture	Morphology of fracture profiles and toughness: competition between inter and transgranular fracture in two dimensional brittle solids	Paul R.;Parameswaran V.;Basu S.	249	2025		

1295	Physics of Fluids	Competition between thermocapillary and solutocapillary flows in thin liquid films	Kumar D.;Panigrahi P.K.;Bickel T.	37	2025		
1296	Surfaces and Interfaces	Behaviour of Zn-MnO ₂ battery under externally applied magnetic field	Sarma Choudhury S.;Katiyar N.;Sarkar A.;Saha R.;Bhattacharya S.	61	2025		
1297	Physics of Fluids	Hemodynamics in a stenosed artery considering blood viscoelasticity and flow pulsatility	Dhawan S.;Pandey P.K.;Das M.K.;Panigrahi P.K.	37	2025		
1298	Journal of Applied Physics	Broadband low-to-mid-range frequency sound absorption using a micro-perforated panel with variable-depth parallel U-shaped cavities	Katiyar N.;Choudhury S.S.;Mishra V.D.;Bhattacharya S.	137	2025		
1299	Journal of Fluid Mechanics	Energy pathways for large- and small-scale magnetic field generation in convection-driven plane layer dynamos	Naskar S.;Pal A.	1007	2025		
1300	Journal of Engineering for Gas Turbines and Power	Schlieren Image Velocimetry and Modal Decomposition Study of Preheated Isothermal Flow From a Generic Multi-Swirl Burner	Vishnoi N.;Saurabh A.;Kabiraj L.	147	2025		

1301	Robotica	Task priority-based redundancy resolution of a 20 DoFs humanoid robot for object pick and place with minimum energy and dynamic balance	Sorokhaibam J.;Dutta A.		2025		
1302	ACS ES and T Water	A Novel Method for Maintaining Low and Constant Salinity in Ice during Desalination of Binary Mixtures Using Directional Top-Cooling Solidification	Kumar N.C.;Sarawagi R.;Kumar V.		2025		
1303	IEEE Transactions on Dielectrics and Electrical Insulation	A Critical Assessment of Electrical Conductivity and Multifunctionality of MWCNT/Epoxy Nanocomposites	Gupta H.;Srivastava M.;Agnihotri P.K.;Basu S.;Gupta N.		2025		
1304	Thermal Science and Engineering Progress	<i>Effect of CO₂ on Evaporation Rate of Warm Water Enclosed in a Top Cooled Circular Cavity</i>	Manish Bhendura and K. Muralidhar	62	2025	103620	
1305	Physics of Fluids	ADrop spreading characteristics over a micro-pillared surface and comparison with an equivalent flat surface	Gopal Chakka Ram, K Muralidhar, and V Kumar		2025		
1306	Journal of Flow Visualization and Image Processing	Effect of Nozzle Orifice Diameter and Position of Hydraulic Jump on Stagnation Point Heat Transfer During Liquid Jet Impingement Cooling	Gopinath Sahu, S. Khandekar, and K. Muralidhar	32	2025	79–105	

1307	Journal of Flow Visualization and Image Processing	Numerical simulation of drop spreading over a pillared surface	Raghvendra K. Dwivedi and K. Muralidhar	31	2024	1–20	
1308	Microsystem Technologies	Closed portable electrowetting-on-dielectric system for actuation of water droplets	Vandana Jain and K. Muralidhar	30	2024	1485–1500	
1309	Acoustics Australia	Virtual Augmentation of the Beamforming Array Based on a Sub-cross-spectral Matrix Computation for Localizing Stationary Signal Noise Sources	R. Singh and A. Mimani	52	2024	225-246	
1310	Proc. Mtgs. Acoust.	A hybrid computational aeroacoustics and phase-cinjugation technique for analyzing flow-induced noise sources.	Shubham Kumar; Shashi Kumar; Yogesh G. Bhumkar; Akhilesh Mimani	52	2023	22001	
1311	MethodsX	A dereverberation beamforming alogrithm for noise source loacliztion in anechoic and sem-reverberant environments	R. Singh, A. Mimani, R. Kumar		2025	103269	
1312	ASME Journal of Engineering for Gas Turbines and Power	Experimental Study on Liquid Jet Trajectory in Cross Flow of Swirling Air at Elevated Pressure Condition	Kumar D., Sikroria T. and Kushari A	127	2025		

1313	ASME Journal of Mechanisms and Robotics	Dynamic Manipulability for a Two-Link Manipulator Driven By Pneumatic artificial Muscles and Passive Springs	S Maurya, A Dutta	17	2025		
1314	ASME Journal of Mechanisms and Robotics	Gait Generation of a 10-Degree-of-Freedom Humanoid Robot on Deformable Terrain Based on Spherical Inverted Pendulum Model	S Gora, SS Gupta, A Dutta	17	2025		
1315	Lasers in Manufacturing and Materials Processing	Effect of Process Parameters on Melt Pool Characteristics and Solidification Process During Laser Powder Bed Fusion of AlSi10Mg Alloy	A. K. Mishra and A. Kumar	11, Issue-2	2024	260–283	
1316	Thermal Science and Engineering Progress	Computational analysis of thermal cycling phenomena during multilayer laser powder bed fusion process for Ti6Al4V	A. K. Mishra and A. Kumar	50	2024		
1317	International Journal of Thermal Sciences	Development and application of a simplified thermo-evaporative multi-track laser powder bed fusion model for Ti6Al4V	A. K. Mishra and A. Kumar	197	2024	108816	

1318	Wear	Influence of scan strategies on wear and tribological performance of Ti-6Al-4V alloy processed by laser powder bed additive manufacturing process	A. Tiwari, A. K. Mishra and A. Kumar		2024	562-563	
1319	<i>Proceedings of the Royal Society A</i>	Analysis of Coherent Structures in Plane and Ribbed Channel Flows: Insights from Proper Orthogonal Decomposition	R. Kushwaha, S. Sarkar , P. Saha and G. Biswas	481 (2313)	2025	20240880	
1320	<i>Physics of Fluids</i>	Leading-edge contamination and its effects over a controlled-diffusion compressor blade for varying levels of freestream turbulence	S. Katiyar and S. Sarkar	37	2025	24104	
1321	<i>Physics of Fluids</i>	Near-wall flow characteristics around longitudinal ribs in fully developed turbulent channel flows	R. Kushwaha, S. Sarkar and G. Biswas	37	2025	15106	
1322	<i>Physics of Fluids</i>	Influence of riblet geometry and freestream turbulence on boundary layer transition	I. Jain, S. Katiyar and S. Sarkar	36	2024	124119	
1323	<i>Physics of Fluids</i>	Characterizing disturbance growth and transition of laminar separation bubbles subjected to varying freestream turbulence	R. Kumar and S. Sarkar	36	2024	104105	

1324	<i>Physics of Fluids</i>	Influence of freestream turbulence on boundary layer transition over a controlled-diffusion compressor blade	S. Katiyar and S. Sarkar	36	2024	64112	
1325	<i>Physics of Fluids</i>	Insights into the Transition of Separation Bubbles over a Rough Surface at Varying Angles of Attack	P. Singh, S. Sarkar , R. Kumar and S. Katiyar	36	2024	34122	
1326	<i>Physics of Fluids</i>	Exploring flow transition induced by surface-mounted riblets using large eddy simulations	I. Jain and S. Sarkar	36	2024	24107	
Department of Materials Science and Engineering							
1327	Journal of Applied Electrochemistry	Effect of inter-critical annealing atmosphere on microstructure and subsequent corrosion behavior of hot-dip galvanized Mn containing high-strength steel	Kancharla H.;Mandal G.K.;Prasad N.K.;Vishwanath K.;Bhushan B.;Godbole K.;Singh S.S.;Mondal K.	54	2024	1153-1170	
1328	Transactions of the Indian Institute of Metals	Effect of Aluminum Content on the Crevice Corrosion Behavior of Magnesium Alloys	Neetu ;Ireddy N.;Panda S.S.;Reddy U.;Jain J.;Mondal K.;Singh S.S.	77	2024	1265-1274	
1329	Vacuum	Exploring the hot deformation behavior of novel Si-containing austenitic stainless steel	Setia P.;Raja N.;Singh S.S.;Mukherjee S.;Venkateswaran T.;Shekhar S.	222	2024		

1330	Modelling and Simulation in Materials Science and Engineering	Accelerated prediction of stacking fault energy in FCC medium entropy alloys using multilayer perceptron neural networks: correlation and feature analysis	Mahato S.;Gurao N.P.;Biswas K.	32	2024		
1331	Optics and Laser Technology	Optical Resonator-Enhanced Random Lasing using Atomically Thin Aluminium-based Multicomponent Quasicrystals	Mandal N.;Kumbhakar P.;Dey A.;Kumbhakar P.;Chatterjee U.;J. S. de Matos C.;Prasad Yadav T.;Krishna Mukhopadhyay N.;Biswas K.;Kochat V.;Sekhar Tiwary C.	175	2024		
1332	Materials Chemistry and Physics	Effect of La_{2O_3} addition on microstructure and mechanical properties of W-Ni-Cu tungsten heavy alloy	Shakunt N.S.;Gouthama ;Upadhyaya A.	318	2024		
1333	Journal of Applied Electrochemistry	Effect of immersion time on the corrosion behaviour of X70 and X80 line pipe steels in simulated concrete pore solution	Sumanth A.;Kancharla H.;Mandal S.;Mukherjee S.;Mondal K.	54	2024	2401-2414	

1334	ACS Applied Materials and Interfaces	Quasicrystal Nanosheet/ α -Fe ₂ O ₃ Heterostructure-Based Low Power NO ₂ Sensors: Experimental and DFT Studies	Kumar S.;Hojamberdiev M.;Chakraborty A.;Mitra R.;Chaurasiya R.;Kwoka M.;Tiwary C.S.;Biswas K.;Kumar M.	16	2024	16687-16698	
1335	Progress in Materials Science	Al-Si controlled expansion alloys for electronic packaging applications	Godbole K.;Bhushan B.;Narayana Murty S.V.S.;Mondal K.	144	2024		
1336	Journal of Alloys and Compounds	Heterogeneity of aging response in friction stirred Al-Cu-Li alloy	Trivedi S.;Yadava M.;Nayan N.;Sarkar R.;Gurao N.P.	991	2024		
1337	Journal of Molecular Liquids	Sequence-dependent dipeptide solubility in ethanol-water and DMSO-water solutions	Liang E.;Verma V.;Guo M.;Jia L.;Guinn E.J.;Heng J.Y.Y.	402	2024		
1338	Physica Scripta	μ 2mech: A software package combining microstructure modeling and mechanical property prediction	Linda A.;Negi A.S.;Panwar V.;Chafle R.;Bhowmick S.;Das K.;Mukherjee R.	99	2024		
1339	Surface and Coatings Technology	Load-dependent wear behavior of novel Fe-based amorphous APS coating derived from compositionally modified high-P pig iron	Bhushan B.;Neetu ;Banerjee A.;Bijalwan P.K.;Patel S.N.;Bhagat A.N.;Mandal S.;Banik D.;Mondal K.	484	2024		

1340	Materials Letters	Evolution of 3D microstructure and correlation with deformation behavior of as-cast Mg-4Zn-xCa alloys	Pandey R.;Gupta G.;Pani S.K.;Godwal U.;Jain J.;Karagadde S.;Ghosh Chowdhury S.;Singh S.S.	367	2024		
1341	Materials Today Communications	Effect of variation in power input on dissimilar materials (Cu-Al) laser welding for battery manufacturing	Sinhmar S.;Mondal K.	39	2024		
1342	Intermetallics	Elucidating the deformation characteristics of Ti–Ni–Fe based pseudo-binary B2 intermetallics	Panda S.S.;Jayabalan B.;Prasad A.K.;Mukherjee S.;Jain J.;Singh S.S.	170	2024		
1343	Materials Letters	Development and characterization of novel Mg-6Zn-0.6Si-xSn alloys with varying Sn addition	Gupta G.;Pandey R.;Mangam S.;Ganguly S.;Jain J.;Singh S.S.	369	2024		
1344	International Journal of Refractory Metals and Hard Materials	Sintering behaviour of liquid phase sintered 90Mo-10(Ni–Cu) alloys	Ranot H.;Upadhyaya A.	123	2024		
1345	Materials Chemistry and Physics	The role of phase fraction on the deformation behavior and tensile properties of dual-phase polycrystalline Fe–Ni alloy: A molecular dynamics simulation study	Sahni S.K.;Bhowmick S.;Upadhyaya A.	322	2024		

1346	Materials Today Communications	Cr content dependent lattice distortion and solid solution strengthening in additively manufactured CoFeNiCr complex concentrated alloys – a first principles approach	Kumar J.;Radhakrishnan M.;Palaniappan S.;Krishna K.M.;Biswas K.;Srinivasan S.G.;Banerjee R.;Dahotre N.B.	40	2024		
1347	Modelling and Simulation in Materials Science and Engineering	Solute segregation in a moving grain boundary: a phase-field approach	Guin S.;Verma M.;Bandyopadhyay S.;Lo Y.C.;Mukherjee R.	32	2024		
1348	Materials Today Communications	Delineating the role of dynamic and static recrystallization during hot working of nickel-based superalloy (IN600)	Raja N.;Kumar A.;Shekhar S.;Kulkarni K.	40	2024		
1349	Materials Today Communications	Atmospheric corrosion behavior of ferritic-pearlitic, spheroidized, and bainitic microstructures of a mild steel	Vishwanath K.;Bhushan B.;Singh S.S.;Mondal K.	40	2024		
1350	Materials Chemistry and Physics	Oxidation behavior of harmonic structured high-entropy cantor alloy	Banik D.;Mandal S.;Mukherjee S.;Prakash A.;Fujiwara H.;Ameyama K.;Mondal K.	323	2024		
1351	Chemical Engineering Journal	An insight to wetting and joining of HfB_2 and ZrB_2 based ultra high temperature ceramics: A review	Bajpai S.;Dubey S.;Venkateswaran T.;Singh S.S.;Balani K.	495	2024		

1352	International Journal of Biological Macromolecules	Fabrication and characterization of multi-layered coaxial agar-based electrospun biocomposite mat, novel replacement for transdermal patches	Rathore K.;Singh I.;Balani K.;Sharma S.;Verma V.	275	2024		
1353	Advanced Sustainable Systems	Utilization of High Entropy Alloy (Co–Cu–Fe–Mn–Ni) and Support (CeO ₂) Interaction for CO ₂ Conversion into Syngas	Bhanu P. Gangwar ., Rahul Mitra ., Arko Parui ., Pooja Gakhad ., Pradeep Kumar Yadav ., Abhishek Kumar Singh ., Chandra Sekhar Tiwary ., Krishanu Biswas ., Sudhanshu Sharma .,	8	2024		
1354	Applied Surface Science	Hierarchical nanoflowers of Bi/Fe-based selenide as a bifunctional electrocatalyst for alkaline water electrolysis	Aman M.;Sharma V.;Omar S.	670	2024		
1355	Journal of the European Ceramic Society	Hyperdoping: doping TiO ₂ beyond thermodynamic limits using Flash sintering	Raj A.;Jha S.K.	44	2024		
1356	Journal of the Electrochemical Society	Effect of Process Parameters on the Roughness and Wetting Characteristics of SS304 Surfaces Using Electrolytic and Plasma Electrolytic Polishing Techniques	Sushil K.;Sharma V.;Jha S.K.;Chandraprakas h C.;Ramkumar J.	171	2024		

1357	International Journal of Hydrogen Energy	An efficient and robust noble-metal-free self-standing bifunctional water electrolysis catalyst: Co ₃ S ₄ @Ex.NiFe-LDH for alkaline water electrolysis	Kumari S.;Mitra R.;Biswas K.;Halder A.	80	2024	1164-1173	
1358	Sustainable Materials and Technologies	Recovery and utilization of zinc dross for sacrificial anode cathodic protection of steel structures	Chahar B.S.;Singh V.;Bhadu M.K.;Hadas S.;Bhagat A.N.;Mondal K.	41	2024		
1359	Journal of Applied Physics	A simple recipe for designing multicomponent ultra-high temperature ceramic classes by using structure maps coupled with machine learning	Mitra R.;Gupta A.;Biswas K.	136	2024		
1360	Journal of Applied Physics	Effect of the deformation temperature and strain on the strain rate sensitivity of fcc medium-entropy alloys	Mahato S.;Jha S.R.;Sonkusare R.;Biswas K.;Gurao N.P.	136	2024		
1361	Materials Performance and Characterization	Processing-Microstructure-Mechanical Property Paradigm in Hot Rolled Ti-6Al-4V Alloy	Paliwal D.;Jha S.;Raturi A.;Ghosh A.;Bandyopadhyay S.;Pandey V.K.;Anoop C.R.;Narayanan P.R.;Mukherjee R.;Gurao N.P.	13	2024	215-235	

1362	Sustainable Materials and Technologies	Excellent corrosion inhibition efficiency of Catharanthus roseus (Nayantara or Sadabahar) leaf aqueous extract on mild steel in chloride-contaminated solutions at different pH	Mandal S.;Das S.;Gupta R.K.;Mondal K.	41	2024		
1363	Bioresource Technology Reports	Valorisation of leather buffing dust as corrosion inhibitor for mild steel in H_2SO_4 acid	Das S.;Mandal S.;Mondal K.	27	2024		
1364	Materials Science and Engineering: A	On the anisotropic fracture behaviour of AA2050-T84 thick plate	Yadav M.;Yadava M.;Nayan N.;Biswas K.;Gurao N.P.	913	2024		
1365	Journal of Materials Science	Natural language processing algorithms for domain-specific data extraction in material science: Reseractor	Gupta A.;Mittal D.;Goel O.;Jha S.K.	59	2024	13856-13872	
1366	Materials Research Express	High entropy oxides for reversible lithium-ion battery: a brief review	Sur S.;Anand G.;Jha S.K.	11	2024		
1367	Materials Science and Engineering: A	Tension-compression asymmetry in $Ti_{50}Ni_{45}Fe_5$ B2 intermetallic	Panda S.S.;Jayabalan B.;Prasad A.K.;Mukherjee S.;Jain J.;Singh S.S.	913	2024		

1368	Diamond and Related Materials	Laser treatment of (Zr-Ta-W-Ti)C-SiC based high entropy carbide ceramics reinforced with carbon nanotubes, graphite and graphene nanoplatelets	Rana D.;Ramkumar J.;Balani K.	148	2024		
1369	Journal of Alloys and Compounds	Optimization of Ni-Cu binder composition and sintering time for enhanced mechanical properties of Mo alloys via liquid phase sintering	Ranot H.;Upadhyaya A.	1006	2024		
1370	Scientific Reports	Quantitative study of early-stage transient bacterial adhesion to bioactive glass and glass ceramics: atomic force microscopic observations	Gour S.;Mukherjee A.;Balani K.;Dhami N.K.	14	2024		
1371	Journal of Energy Storage	Impact of CNT assimilation on binary $\text{MoO}_3/\text{MoS}_2$ hybrid for enhanced cyclic stability during charging-discharging process	Lichchhavi ;Kumar S.;Sharma S.;Aman M.;Halder A.;Jha S.K.	99	2024		
1372	Journal of Electroanalytical Chemistry	Enhancing supercapacitor performance with binder-free cobalt sulfide pseudo-capacitive electrodes: A path to sustainable energy storage	Halder A.;Aman M.;Lichchhavi ;Jha S.K.	972	2024		

1373	Materials Letters	Enhanced corrosion resistance of harmonic structured β -type Ti-25Nb-25Zr alloy in aerated Fusayama-Meyer's simulated saliva solution	Banik D.;Baditela T.S.;Mandal S.;Fujiwara H.;Ameyama K.;Mondal K.	377	2024		
1374	Materials Science and Engineering: A	Novel Mn and Si alloyed complex phase steel for automotive applications	Chand S.;Reza S.;Biswas K.;Prasad R.M.;Rakha K.	916	2024		
1375	Intermetallics	Effect of molybdenum addition on precipitate coarsening kinetics in Inconel 740H: A phase-field study	Ghosh S.;Kumar H.;Brandl C.;Choudhury A.N.;Bhattacharyya S.;Mukherjee R.	175	2024		
1376	Journal of Alloys and Compounds	Intermediate-spin state of Co ions in magnetic and thermoelectric properties of double perovskite $\text{Ba}_{2-x}\text{CoNb}_6\text{O}_{26}$	Popov D.V.;Batulin R.G.;Cherosov M.A.;Yatsyk I.V.;Chupakhina T.I.;Deeva Y.A.;Makarchenko A.S.;Fazlizhanova D.I.;Shustov V.A.;Eremina R.M.;Maiti T.	1009	2024		
1377	Materialia	Influencing TRIP threshold and variant pairing through minor cold and cryo-rolling in bainitic steel	Sobti A.;Mondal K.;Kumar Ray R.;Sankaran S.	38	2024		
1378	Engineering Research Express	Design and parametrization of TPMS lattice using computational and experimental approach	Kumar R.;Ramkumar J.;Balani K.	6	2024		

1379	Materials Characterization	Influence of TiC and Ni addition on densification and mechanical properties of microwave sintered ZrB_2 based composites	Sharma A.;Upadhyaya A.	218	2024		
1380	Journal of Energy Storage	Investigation of corrosion and electrical resistance in laser welded Al-Cu joints for EV batteries	Sinhmar S.;Mandal S.;Yadav V.K.;Mondal K.	104	2024		
1381	Physica Scripta	High temperature thermoelectric properties of $Ba_xSr_{2-x}FeCoO_6$ double perovskites	Bhattacharya T.;Maiti T.	99	2024		
1382	Materials Today Communications	Enhanced ablation resistance and mechanical behavior of spark plasma sintered ZrB_2 -SiC composites with TiC addition	Sharma A.;Upadhyaya A.;Karunakar D.B.	41	2024		
1383	Journal of Alloys and Metallurgical Systems	Effect of minor addition of silicon on deformation behaviour and texture evolution in CrFeNi medium entropy alloy	Mahato S.;Dhidhi T.;Gurao N.P.;Biswas K.	8	2024		
1384	JOURNAL OF MATERIALS CHEMISTRY C	Mott-vanadium dioxide-based memristors as artificial neurons for brain-inspired computing: a view on current advances	Gurukrishna, K. and Kamat, Aditya Uday and Misra, Shikhar		2024		

1385	JOURNAL OF CHEMICAL INFORMATION AND MODELING	Machine-Learning-Assisted Materials Discovery from Electronic Band Structure	Sinha, Prashant and Joshi, Ablokit and Dey, Rik and Misra, Shikhar	64	2024	8404-8413	
1386	NANOSCALE ADVANCES	Tunable insulator-metal transition in epitaxial VO ₂ thin films <i>via</i> strain and defect engineering	Kamat, Aditya and K., Gurukrishna and Kumar, Rishow and Mishra, Abhishek Verma, Amit Kumar and Tripathi, Shivam and Garg, Ashish and Misra Shikhar	6	2024	5625-5635	
1387	Materials Today Communications	Elevated temperature thermal and electrical properties of carbon nanotubes, graphite and graphene reinforced (Zr-Ta-W-Ti) C-SiC based high entropy carbide ceramics	Divya Rana, Vincent Xavier, Subhra S Jana, Tanmoy Maiti, Venkateswaran Thiruvengatam, Kantesh Balani	38	2024	108434	
1388	Transactions of the Indian Institute of Metals	Effect of Transient Thermal Conditions in the Slag Region on Ladle Refining	Sinha, Anshuman and Maji, Sumanta and Singh, Amarendra	77	2024		
1389	'Transactions of the Indian Institute of Metals '	'Experimental and Numerical Study of Shrinkage Formation in Alloys '	'Telmasre, Tushar Khemraj and Singh, Amarendra Kumar '	77	2024	'2953--2958 '	
1390	Computational Materials Science	Grain boundary grooving in thin film under the influence of an external magnetic field: A phase-field study	Soumya Bandyopadhyay and Somnath Bhowmick and Rajdip Mukherjee	246	2025	113378	

1391	Journal of the European Ceramic Society	Flash sintering enhanced co-doping TiO_2 with Fe and Cu to improve photocatalytic efficiency	Raj A.;Thampi A.;Socha B.N.;Jha S.K.	45	2025		
1392	Materials Science and Engineering: A	A finite element method and fast Fourier transform based crystal plasticity simulations study on the evolution of microstructure and mechanical properties of gradient structure copper	Paliwal D.;Basantia S.K.;Yadava M.;Gurao N.P.	919	2025		
1393	Tribology International	Friction and wear maps of Mg-Er alloys with varying Er content	Rashi R.;Lee S.Y.;Singh S.S.;Chiu Y.L.;Jones I.P.;Jain J.	202	2025		
1394	Next Materials	Experimental and theoretical study of size-dependent phase evolution in NaCl-KCl alloys	Kumar S.;Mishra S.S.;Naskar N.;Sarkar S.;Kashyap S.;Katiyar N.K.;Paliwal M.;Biswas K.;Tiwary C.S.;Chattopadhyay K.	6	2025		
1395	Computational Materials Science	Effect of Cr segregation on grain growth in nanocrystalline α -Fe alloy: A multiscale modeling approach	Guin S.;Linda A.;Lo Y.C.;Bhowmick S.;Mukherjee R.	247	2025		

1396	Journal of Alloys and Compounds	Deformation characteristics of Ti-Ni-Fe based multiphase intermetallic: Experiments and atomistic simulation	Panda S.S.;Sahni S.;Jayabalan B.;Subhakar M.;Mukherjee S.;Jain J.;Singh S.S.	1010	2025		
1397	Acta Materialia	Interplay between thermal and compositional gradients decides the microstructure during thermomigration: A phase-field study	Guin S.;Bandyopadhyay S.;Bhattacharyya S.;Mukherjee R.	284	2025		
1398	International Journal of Refractory Metals and Hard Materials	Microstructure and mechanical characterizations of liquid phase sintered W-Ni-Cu heavy alloy modified with $\text{La}_{2}\text{O}_{3}$ and Fe addition	Shakunt N.S.;Gouthama ;Upadhyaya A.	127	2025		
1399	Journal of Alloys and Compounds	Enhanced mechanical properties and microstructure of TiC reinforced Stellite 6 metal matrix composites (MMCs) via laser cladding additive manufacturing	Tiwari V.;Mandal V.;Sarkar M.;Kumar A.;Bhagyaraj J.;Singh M.K.;Mukherjee S.;Mondal K.;Ramkumar J.;Jain J.;Huang E.W.;Singh S.S.	1010	2025		
1400	Materials Science and Engineering: A	The role of temperature and strain on the deformation behaviour and microstructural evolution of FCC $(\text{CrFeNi})_{99}\text{Si}_1$ medium-entropy alloy	Mahato S.;Gurao N.P.;Biswas K.	922	2025		

1401	Advanced Engineering Materials	High-Temperature Hardness Anomaly in Ti–Ni–Fe-Based Multiphase Intermetallic	Panda S.S.;Sahni S.;Mangam S.;Jayabalan B.;Mukherjee S.;Jain J.;Singh S.S.	27	2025		
1402	Journal of Alloys and Metallurgical Systems	Study of phase evolution and phase stability in a novel FCC based $\text{Al}_{30}\text{Ti}_{35}\text{Mg}_5\text{V}_{10}\text{Fe}_8\text{Cr}_{12}$ lightweight high-entropy alloy processed by mechanical alloying	Sourav A.;Negi A.S.;Chauhan P.;Sudeep Kumar T.;Thangaraju S.	9	2025		
1403	Transactions of the Indian Institute of Metals	Discussion on “ Characteristics of the Instantaneous Kinetic Energy and Agitating intensity Index for the Bath Flow Under Various Bottom Regiment Configurations” Published in the Transactions of IIM, 2024, pp. 2073–2081	Mazumdar D.	78	2025		
1404	Journal of Alloys and Compounds	Evolution of microstructure, elemental segregation and magnetic order in $\text{Ti}_{20}\text{Co}_{20}\text{Cu}_{20}\text{Fe}_{20}\text{Ni}_{20}$ high entropy alloy	Mohanty S.;Palit M.;Pradeep K.G.;Biswas K.	1010	2025		

1405	Electrochimica Acta	High-performing Zr_{4+}/Ti_{4+} Co-doped $SrFeO_3$ as electrodes for symmetrical solid oxide fuel cells	Kumar S.;Chhatrodiya D.N.;Omar S.	512	2025		
1406	Surface and Coatings Technology	Correlation of roughness with surface properties of SS 304 and Inconel 718 substrates processed by plasma electrolytic polishing	Sushil K.;Raj A.;Jha S.K.;Ramkumar J.;Chandraprakash C.	497	2025		
1407	International Journal of Energy for a Clean Environment	EXPERIMENTAL INVESTIGATION OF A CONVERGENT NOZZLE FOR THERMAL HOMOGENIZATION OF AIR	Sharma P.;Singh G.;Shekhar R.;Chandra L.;Ghoshdastidar P.S.	26	2025	12-Jan	
1408	Sensors and Actuators A: Physical	Metal-free Nitrogen-doped reduced graphene oxide (N-rGO) SERS platform for detecting Rhodamine B	Srivastava A.;Srivastava A.K.;Dwivedi P.K.;Jha S.K.	383	2025		
1409	Materials and Design	Thermodynamics guided design and processing of a WC/HEA cermet tool for high temperature friction stir welding	Gaddam S.;Yadav S.;Behera A.K.;Arai N.;Mahbooba Z.;Jha S.K.;Zhang Q.;Mishra R.S.	250	2025		
1410	Materials Today Communications	Novel composite sacrificial anodes based on high phosphorus blast furnace metal with minor Zn addition	Baditela T.S.;Banik D.;Mandal S.;Bhadu M.K.;Bhagat A.N.;Hadas S.;Prasad N.K.;Mondal K.	43	2025		

1411	Emergent Materials	Investigations into mechanical and corrosion behavior of Ti6Al4V scaffolds prepared using space holder technique	Bhanj T.K.;Ganguly S.;Mathew A.M.;Pattanayak D.K.;Debata M.;Sahoo T.K.;Kumar N.;Das S.R.;Chawake N.;Panigrahi A.		2025		
1412	Nuclear Fusion	Studies on the retarded recrystallization of tungsten in CIMPLE-PSI exposed under very-high target temperature and long He ⁺ -fluence	Rahman M.;Chetri S.;Teo S.H.B.;Thompson M.;Bilokur M.;Corr C.;Shekhar S.;Temmerman G.D.;Kakati M.	65	2025		
1413	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	Mapping Dynamic Restoration Mechanisms and Flow Instability in 12Cr–10Ni Maraging Steel: Microstructural Insights from EBSD, TEM, and XRD-Line Profile Analysis	Setia P.;Singh S.S.;Rawat P.;Tripathi N.;Mukherjee S.;Kumar M.;Venkateswaran T.;Shekhar S.		2025		
1414	International Journal for Computational Methods in Engineering Science and Mechanics	Systematic variation of curvature for strengthening of targets against high velocity impact	Gupta P.;Jha S.K.		2025		
1415	Ceramics International	Advanced 3D-printed antibacterial nano 58S bioglass/AgNPs/CeO ₂ -based scaffolds for bone tissue engineering	Singh I.;Kong I.;Viswakarma A.;Balani K.		2025		

1416	Defect and Diffusion Forum	Interdiffusion in β Phase Field of Ternary (Ni, Ru)Al System	Kumar S.;Kulkarni K.N.	439	2025	105-114	
1417	Small	Enhanced Thermoelectric Performance in Earth-Abundant $\text{Bi}_{2-\text{S}_{1-3}}$ by Band Structure Modification Using CuCl Doping	Anjum F.;Bhattacharjee D.;Bhattacharya A.;Maiti T.		2025		
1418	Journal of Materials Science	Unsupervised Graph-GAN model for stress-strain field prediction in a composite	Sahu R.;Gupta A.;Mittal D.;Chatterjee P.;Jha S.K.		2025		
1419	Journal of Materials Engineering and Performance	Microstructural Tailoring for Enhanced Wear Resistance and Improved Mechanical Properties in High-Carbon Rail Steel	Rajput A.;Verma G.;Harsha A.P.;Ramkumar J.;Mondal K.;Vishwanath K.		2025		
1420	Metallurgical and Materials Transactions B	Effect of Natural Convection on Formation and Melting of Shell Around Low Melting Point Additives	Arya, Abhishek and Singh, Amarendra		2025		
1421	steel research international	Modeling of Arcing, Scrap Melting, and Temperature Evolution in the Refractory of a Lab-Scale Direct Current-Electric Arc Furnace	Nath, Dinesh and Maji, Sumanta and Singh, Amarendra K.	96	2025	2300696	
1422	Journal of Materials Engineering and Performance	Exploring the Influence of Rolling Conditions on the Texture and Mechanical Properties of Sintered Fe ₃₆ Ni Alloy	Sahni S.K.;Upadhyaya A.;Bhowmick S.		2025		

1423	Inorganic Chemistry	Titanium-Doped BaZrS ₃ Chalcogenide Perovskite for Photovoltaic Applications: Structural, Optical, and Electrical Properties	Musa A.;Katiyar M.		2025		
1424	International Journal of Minerals, Metallurgy and Materials.	Development of Constitutive Models and Hot Working Processing Map for Al-12Ce-0.4Sc Alloy	M.R. Athimulam, J. Paul, S.M. Jagadeesh, S. Gangolu		2025		
1425	Transactions of the Indian Institute of Metals	Effect of heat treatment on Corrosion behaviour of 316L SS coated AZ80 magnesium alloy through HVOF technique,	K. Palaniswamy, S Gangolu and M A Joseph,	78	2025	25	
1426	Ceramics International	SiC addition to a dual phase high entropy ultra-high temperature ceramic	R Hassan, WG Fahrenholtz, K Balani, GE Hilmas, J Watts		2025		
1427	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology		Dubey D.;Mukherjee R.;Singh M.K.	238	2024	706	
1428	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	A comparative tribological study on as-cast and heat-treated Inconel-718 superalloy at elevated temperature	Dubey D.;Kumar A.;Mukherjee R.;Kumar Singh M.	238	2024	1247	

1429	Solid State Phenomena	Integrated Phase-Field and Machine Learning Study of Microstructure Evolution During Interface-Controlled Spinodal Decomposition	Ahmad O.;Maurya R.;Mukherjee R.;Bhowmick S.	357	2024	101	
1430	Journal of Applied Polymer Science	Carbon nanotube functionalization supports mechanical, tribological, and biological response of freeze-dried ultra-high molecular weight polyethylene-based bio-composites	P Rani, I Singh, D Khare, K Balani	141 (42)	2025	e56096	
1431	Journal of Materials Research	Atomic force microscopic investigations of transient early-stage bacterial adhesion and antibacterial activity of silver and ceria modified bioactive glass	S Gour, A Mukherjee, K Balani, NK Dhami	39 (17)	2025	2415-2430	
1432	Ceramics International	Intermediate and final stage sintering kinetics of spark plasma sintered hafnium diboride	Shruti Dubey , Ponnasureddy Shiven , Kantesh Balani	51 (12A)	2025	15475-15482	
1433	Met and Mat. Trans	Mapping Dynamic Restoration Mechanisms and Flow Instability in 12Cr–10Ni Maraging Steel: Microstructural Insights from EBSD, TEM, and XRD-Line Profile Analysis	<i>P. Setia, S.S. Singh, P. Rawat, N. Tripathi, S. Mukherjee, M. Kumar, T. Venkateswaran, S. Shekhar</i>	A56	2025	1585-1604	

1434	Nuclear Fusion	Studies on the retarded recrystallization of tungsten in CIMPLE-PSI exposed under very-high target temperature and long He+-fluence	<i>M. Rahman, S. Chetri, S.H.B. Teo, M. Thompson, M. Bilokur, C. Corr, S. Shekhar, G.De. Temmerman, M. Kakati</i>	65(1)	2024	16017	
1435	Materials Today Communications	<i>Delineating the role of dynamic and static recrystallization during hot working of nickel-based superalloy (IN600)</i>	<i>Nitish Raja, Aman Kumar, Shashank Shekhar, Kaustubh Kulkarni</i>	40	2024	109577	
1436	Vacuum	<i>Exploring the hot deformation behavior of novel Si-containing austenitic stainless steel</i>	<i>P. Setia, N. Raja, S. S. Singh, S. Mukherjee, T. Venkateswaran, S. Shekhar</i>	222	2024	113045	
1437	JOM	<i>Creep Deformation of a Composite of Dual-Phase Medium Entropy Alloys</i>	<i>A. Kumar, S. Kumar, J. Kumari, S. Kumari, D. Kumar, N Chawake</i>		2025		
1438	Journal of Applied Physics	Harnessing room-temperature ferroelectricity in metal oxide monolayers for advanced logic devices	Ateeb Naseer, Musaib Rafiq, Somnath Bhowmick, Amit Agarwal, Yogesh Singh Chauhan	136	2025	174301	
1439	Physical Review B	Accelerating the prediction of stacking fault energy by combining ab initio calculations and machine learning	Albert Linda, Md Faiz Akhtar, Shaswat Pathak, Somnath Bhowmick		2024	214102	

1440	Process Safety and Environmental Protection	Removal of encapsulant ethylene-vinyl acetate for recycling of photovoltaic modules: Hansen solubility parameters analysis	Harish Kumar Trivedi, Rahul Kumar Yadav, Arunabh Meshram, Rajeev Gupta	186	2024	1397-1409	
1441	Agronomy Research	Organic solvent selection for delamination of end-of-life silicon photovoltaic modules based on recyclability.	HK Trivedi, A Meshram, R Gupta	22	2024	1339-1350	
1442	Agronomy Research	Valorization of aluminium dross for the development of al-rich product	A Srivastava, A Meshram	22	2024	1297-1311	
Department of Physics							
1443	Communications Physics	Universal relaxation of turbulent binary fluids	Pan N.;Banerjee S.;Halder A.	7	2024		
1444	Phys. Rev. B	Polarization and third-order Hall effect in III-V semiconductor heterojunctions	Pal, Ojasvi and Ghosh, Tarun Kanti	109	2024	35202	
1445	Physical Review B	Magnetotransport and electronic structure of EuAuSb: A candidate antiferromagnetic Dirac semimetal	Ram D.;Singh J.;Banerjee S.;Sundaresan A.;Samal D.;Kanchana V.;Hossain Z.	109	2024		
1446	Physical Review B	Magnetic coupling at the interface between ultrathin tetragonal CuO and La _{0.7} Sr _{0.3} MnO ₃	Palai D.;Kumar R.;Tahir M.;Gupta P.;Sarangi S.N.;Bedanta S.;Tripathy G.;Mukhopadhyay S.;Hossain Z.;Samal D.	109	2024		

1447	Journal of High Energy Physics	Reflected entropy in a BCFT on a black hole background	Basu D.;Chourasiya H.;Raj V.;Sengupta G.	2024	2024	1-45	
1448	Physical Review B	Moderate Gilbert damping and perpendicular magnetic anisotropy in Yb ₃ Fe ₅ O ₁₂ films	Lal K.;Kuila M.;Samantaray B.;Choudhary R.J.;Reddy V.R.;Hossain Z.	109	2024		
1449	Journal of Magnetism and Magnetic Materials	Metallicity and associated ferromagnetism in fluorine doped LaMnAsO	Yadav E.;Kuila M.;Rajeev K.P.;Hossain Z.	600	2024	172127	
1450	Applied Optics	Wavefront rotator with near-zero mean polarization change	Karan S.;Senapati N.;Jha A.K.	63	2024	4552-4557	
1451	Journal of Cosmology and Astroparticle Physics	Probing the cosmological principle using the slope of log N-log S relationship for quasars	Panwar M.;Jain P.	2024	2024		
1452	Astrophysical Journal	Detection of Simultaneous Quasiperiodic Oscillation Triplets in 4U 1728-34 and Constraining the Neutron Star Mass and Moment of Inertia	Anand K.;Misra R.;Yadav J.S.;Jain P.;Kumar U.;Bhattacharya D.	967	2024		
1453	The Astrophysical Journal	Fallback Rates in Partial Tidal Disruptions of White Dwarfs by Intermediate-mass Black Holes	Garain D.;Sarkar T.	967	2024	1-9	
1454	European Physical Journal C	Flavor asymmetry of light sea quarks in proton: a light-front spectator model	Choudhary P.;Chakrabarti D.;Mondal C.	84	2024		

1455	Journal of High Energy Physics	Beyond Wilson? Carroll from current deformations	Bagchi A.;Banerjee A.;Mondal S.;Mukherjee D.;Muraki H.	6	2024	215	
1456	Journal of Instrumentation	Development of a cylindrical mirror analyser electron spectrometer and associated data acquisition system to study inner shell electron emission following ion-atom collision	Tyagi R.;Kelkar A.H.	19	2024	P06035	
1457	Physical Review B	Large quantum nonreciprocity in plasmons dragged by drifting electrons	Dutta D.;Agarwal A.	110	2024	45403	
1458	Physical Review D	Gluon generalized parton distributions of the proton at nonzero skewness	Chakrabarti D.;Choudhary P.;Gurjar B.;Maji T.;Mondal C.;Mukherjee A.	109	2024		
1459	Journal of Magnetism and Magnetic Materials	Crystalline electric field and large anomalous Hall effect in NdGaGe single crystals	Ram D.;Joshi L.;Hossain Z.	605	2024		
1460	Journal of Physics D: Applied Physics	Electric field driven focusing and transport of plasma ion beams by micro-glass capillaries beyond the self-focusing limit	Barman S.;Bhattacharjee S.	57	2024	405206	
1461	Nano Letters	Nonlinear Electrical Transport Unveils Fermi Surface Malleability in a Moiré Heterostructure	Datta S.;Bhowmik S.;Varshney H.;Watanabe K.;Taniguchi T.;Agarwal A.;Chandni U.	24	2024	9520-9527	

1462	Frontiers of Optoelectronics	Control of visible-range transmission and reflection haze by varying pattern size, shape and depth in flexible metasurfaces	Maity A.;Biswas V.;Vijaya R.	17	2024		
1463	JPhys Photonics	Multi-modal flexible and inexpensive plasmonic metasurface for wide range of refractive index sensing	Biswas V.;Vijaya R.	6	2024		
1464	Physical Review B	Competing magnetocrystalline anisotropy and spin-dimension crossover in $Cr_{1+x}Te_2$	Pandey S.;Mukhopadhyay S.	110	2024		
1465	European Physical Journal Plus	Renormalization of scalar and fermion interacting field theory for arbitrary loop: Heat–Kernel approach	Banerjee U.;Chakraborty J.;Ramkumar K.	139	2024		
1466	Physical Review B	Magnetotransport and electronic structure of the axion insulator $MnSb_8Te_{13}$	Mudgal M.;Dutta D.;Meena P.;Yenugonda V.;Tiwari V.K.;Malik V.K.;Buck J.;Mahatha S.K.;Agarwal A.;Nayak J.	110	2024	45124	
1467	Physical Review B	Gate-tunable crossover between vortex-interaction and pinning dominated regimes in Josephson-coupled lead islands on graphene	Gupta S.;Jana S.P.;Pervin R.;Gupta A.K.	110	2024		

1468	Physical Review B	Josephson junction of minimally twisted bilayer graphene	Kundu R.;Kundu A.	110	2024	85422	
1469	Journal of High Energy Physics	Holography in flat spacetimes: the case for Carroll	Bagchi A.;Dhivakar P.;Dutta S.	8	2024	144	
1470	Journal of High Energy Physics	Chaotic and thermal aspects in the highly excited string S-matrix	Das D.;Mandal S.;Sarkar A.	2024	2024	1-42	
1471	Physics of Plasmas	Rayleigh-Taylor turbulence in strongly coupled dusty plasmas	Wani R.;Verma M.;Tiwari S.	31	2024		
1472	Scientific Reports	Experimental and theoretical validation for transmutation of palladium at electrochemical interfaces	Gadly T.;Phapale S.;Gamre S.;Jain P.;Kumar H.;Poudel S.K.;Desai S.;Pathak A.K.;Srivastava A.;Kumar A.;Pal R.;Chandwadkar P.;Acharya C.;Bakshi A.K.;Varma S.;Patro B.S.;Goswami D.	14	2024		
1473	Journal of Physics Condensed Matter	Weak antilocalization in the topological semimetal candidate YbAuSb	Ram D.;Banerjee S.;Sundaresan A.;Samal D.;Hossain Z.	36	2024		
1474	Physical Review E	Critical dimension for hydrodynamic turbulence	Verma M.K.	110	2024	35102	
1475	Physica B: Condensed Matter	Gate induced metallicity and absence of superconductivity in BSTO/LCO heterostructure	Maharana B.;Ghising P.;Hossain Z.	695	2024		

1476	Journal of physics. Condensed matter : an Institute of Physics journal	Magnetotransport and angle-resolved photoemission spectroscopy of MnSb_{12} : a new member of $\text{MnSb}_{2n}\text{Te}_{3n+1}$ family	Mudgal M.;Meena P.;Tiwari V.K.;Yenugonda V.;Malik V.K.;Buck J.;Rosnagel K.;Mahatha S.K.;Nayak J.	36	2024	50LT01	
1477	Journal of High Energy Physics	Exactly solvable floquet dynamics for conformal field theories in dimensions greater than two	Das D.;Das S.R.;Kundu A.;Sengupta K.	2024	2024	1-38	
1478	Physical Review B	Band geometry induced electro- optic effect and polarization rotation	Kumar M.M.;Sarkar S.;Agarwal A.	110	2024	125401	
1479	Physics Letters, Section A: General, Atomic and Solid State Physics	Hydrodynamic energy flux in a many-particle system	Wani R.;Verma M.;Nirgudkar S.;Tiwari S.	526	2024	129944	
1480	Physical Review Materials	Unconventional superconducting pairing in a B20 multifold Weyl fermion semimetal	Mardanya S.;Kargarian M.;Verma R.;Chang T.R.;Chowdhury S.;Lin H.;Bansil A.;Agarwal A.;Singh B.	8	2024	L091801	
1481	Physics of Plasmas	Characteristics of fluctuations in the equatorial and polar directions of a compact dipole plasma driven at steady state	Hunjan S.;Bhattacharjee S.	31	2024	92106	
1482	Monthly Notices of the Royal Astronomical Society: Letters	Colour dependence of dipole in CatWISE2020 data	Panwar M.;Jain P.;Omar A.	535	2024	L63-L69	
1483	Physical Review C	Low energy nuclear reactions through weak interactions	Ramkumar K.;Kumar H.;Jain P.	110	2024		

1484	Astrophysical Journal	Exploring the Broadband Spectral and Timing Characteristics of GRS 1915+105 with AstroSat and NICER Observations	Dhaka R.;Misra R.;Jain P.;Yadav J.S.	974	2024		
1485	Physical Review D	Strings near black holes are Carrollian	Bagchi A.;Banerjee A.;Hartong J.;Have E.;Kolekar K.S.;Mandlik M.	110	2024	086009	
1486	Superconductor Science and Technology	Superconductor to metal quantum phase transition with magnetic field in Josephson coupled lead islands on Graphene	Gupta S.;Jana S.P.;Pervin R.;Gupta A.K.	37	2024		
1487	Journal of High Energy Physics	Inflationary non-Gaussianities in alpha vacua and consistency with conformal symmetries	Ansari A.;Banerjee P.;Dhivakar P.;Jain S.;Kundu N.	2024	2024	1-56	
1488	Optical Fiber Technology	Saturable absorption in erbium-doped fiber for controlling lasing peaks and their linewidths in fiber laser	Jachpure D.;Prakash O.;Vijaya R.	88	2024		
1489	Physical Review E	Spectral energy transfers in domain growth problems	Yadav P.K.;Verma M.K.;Puri S.	110	2024	44130	
1490	Journal of Applied Physics	Harnessing room-temperature ferroelectricity in metal oxide monolayers for advanced logic devices	Naseer A.;Rafiq M.;Bhowmick S.;Agarwal A.;Singh Chauhan Y.	136	2024	174301	

1491	Physical Review Letters	Josephson-Current Signatures of Unpaired Floquet Majorana Fermions	Kumari R.;Seradjeh B.;Kundu A.	133	2024	196601	
1492	Journal of High Energy Physics	3d Carrollian Chern-Simons theory & 2d Yang-Mills	Bagchi A.;Lipstein A.;Mandlik M.;Mehra A.	11	2024	006	
1493	Physical Review B	Quantum geometry induced third-order nonlinear transport responses	Mandal D.;Sarkar S.;Das K.;Agarwal A.	110	2024	195131	
1494	Journal of High Energy Physics	Strings near black holes are Carrollian. Part II	Bagchi A.;Banerjee A.;Hartong J.;Have E.;Kolekar K.S.	11	2024	024	
1495	Physical Review D	Observation of double Formula Presented meson production in Formula Presented collisions at Formula Presented	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöfbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Laer T.;Van Mechelen P.;Breugelmans N.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Heyen F.;Lowette	110	2024		

1496	Physical Review D	Mixing effects on spectroscopy and partonic observables of heavy mesons with logarithmic confining potential in a light-front quark model	Pandya B.;Gurjar B.;Chakrabarti D.;Choi H.M.;Ji C.R.	110	2024		
1497	Journal of Instrumentation	Beam test performance studies of CMS Phase-2 Outer Tracker module prototypes	Adam W.;Bergauer T.;Damanakis K.;Dragicevic M.;Frühwirth R.;Steininger H.;Beaumont W.;Darwish M.R.;Janssen T.;Van Mechelen P.;Breugelmans N.;Delcourt M.;De Moor A.;D'Hondt J.;Heyen F.;Lowette S.;Makarenko I.;Muller D.;Tytgat M.;Vannerom D.;Van Putte S.;Allard Y.;Clerbaux B.;Caviglia F.;Dansana S.;Das A.;De Lentdecker G.;Evard H.;Favart L.;Khalilzadeh A.;Lee K.;Malara A.;Robert E.;Thomas	19	2024		
1498	Physical Review Materials	Understanding the behavior of exchange bias and coercive fields and connections with anisotropic interfaces in Co ₂ C nanoparticle system	Saha S.;Mahato P.C.;Paul S.;Banerjee S.S.	8	2024		

1499	Physical Review Letters	Search for Soft Unclustered Energy Patterns in Proton-Proton Collisions at 13 TeV	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Mechelen P.;Breugelmans N.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Heyen F.;Lowette S.;Makarenko	133	2024		
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1500	Physical Review D	Search for production of a single vectorlike quark decaying to tH or tZ in the all-hadronic final state in pp collisions at [Formula presented]	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Mechelen P.;Bols E.S.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;El Faham H.;Lowette S.;Makarenko	110	2024		
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1501	Journal of Instrumentation	Performance of the CMS high-level trigger during LHC Run 2	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Benato L.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Waltenberger W.;Wulz C.E.;Janssen T.;Van Laer T.;Van Mechelen P.;Breugelmans N.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Heyen F.;Lowette S.;Makarenko	19	2024		
1502	Flexible and Printed Electronics	Sintering of copper nanoparticles using intense pulsed light for screen-printed films on flexible substrate	Manoranjana;Gupta A.;Mohapatra Y.N.	9	2024	45009	
1503	Physical Review B	Anisotropic magnetization dynamics in Fe ₅ GeTe ₂ at room temperature	Bera A.;Jana N.;Agarwal A.;Mukhopadhyay S.	110	2024	224401	
1504	Physical Review E	Contrasting thermodynamic and hydrodynamic entropy	Verma M.K.;Stepanov R.;Delache A.	110	2024	55106	
1505	Physical Review Applied	Structured position-momentum-entangled two-photon fields	Prasad R.;Wanare S.;Karan S.;Joshi M.K.;Bhattacharjee A.;Jha A.K.	22	2024	64034	

1506	Physical Review D	Measurements of polarization and spin correlation and observation of entanglement in top quark pairs using (Formula presented) events from proton-proton collisions at (Formula presented)	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Benato L.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Waltenberger W.;Wulz C.E.;Janssen T.;Van Laer T.;Van Mechelen P.;Breugelmans N.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Heyen F.;Lowette S.;Makarenko	110	2024		
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1507	Journal of High Energy Physics	Measurement of boosted Higgs bosons produced via vector boson fusion or gluon fusion in the $H \rightarrow b\bar{b}$ decay mode using LHC proton-proton collision data at $s = 13$ TeV	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Mechelen P.;Bols E.S.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;El Faham H.;Lowette S.;Makarenko	2024	2024		
1508	Applied Physics Reviews	Antibonding valence states induce low lattice thermal conductivity in metal halide semiconductors	Ubaid M.;Acharyya P.;Maharana S.K.;Biswas K.;Pal K.	11	2024		
1509	Journal of the American Chemical Society	Lone Pair Induced 1D Character and Weak Cation-Anion Interactions: Two Ingredients for Low Thermal Conductivity in Mixed-Anion Metal Chalcogenide CuBiSCl_2	Shen X.;Pal K.;Acharyya P.;Raveau B.;Boullay P.;Lebedev O.I.;Prestipino C.;Fujii S.;Yang C.C.;Tsao I.Y.;Renaud A.;Lemoine P.;Candolfi C.;Guilmeau E.	146	2024	29072-29083	

1510	Journal of the American Chemical Society	Structure Low Dimensionality and Lone-Pair Stereochemical Activity: the Key to Low Thermal Conductivity in the Pb-Sn-S System	Acharyya P.;Pal K.;Zhang B.;Barbier T.;Prestipino C.;Boullay P.;Raveau B.;Lemoine P.;Malaman B.;Shen X.;Vaillant M.;Renaud A.;Uberuaga B.P.;Candolfi C.;Zhou X.;Guilmeau E.	146	2024	13477-13487	
1511	Advanced Materials	Evidence of Lone Pair Crafted Emphanisis in the Ruddlesden–Popper Halide Perovskite $\text{Cs}_{2-x}\text{PbCl}_{2-x}\text{F}_{2+x}$	Maria I.;Acharyya P.;Voneshen D.;Dutta M.;Ahad A.;Etter M.;Ghosh T.;Pal K.;Biswas K.	36	2024		
1512	Nano Letters	Electron-Phonon Interaction Mediated Gigantic Enhancement of Thermoelectric Power Factor Induced by Topological Phase Transition	Li Z.;Pal K.;Lee H.;Wolverton C.;Xia Y.	24	2024	5816-5823	
1513		Supernova Pointing Capabilities of DUNE	Abed Abud, Adam;Abi, Babak;Acciarri, Roberto;Acero, Mario;Adames, Marcio;Adamov, George;Adamowski, Mark;Adams, David;Adinolfi, Marco;Adriano, Cris;others		2024		

1514		The hypothetical track-length fitting algorithm for energy measurement in liquid argon TPCs	Abed Abud, Adam;Abi, Babak;Acciarri, Roberto;Acero, Mario;Adames, Marcio;Adamov, George;Adamowski, Mark;Adams, David;Adinolfi, Marco;Adriano, Cris;others		2024		
1515		arXiv: DUNE Phase II: Scientific Opportunities, Detector Concepts, Technological Solutions	Abed Abud, Adam;Granger, Pierre;Antoniassi, Marcelo;Sondheim, Walter;Popov, Vitaliy;Delmonte, Nicola;Chi, Cheng-Yi;Rebel, Brian;Thea, Alessandro;Fowler, Jack;others		2024		
1516		arXiv: Performance of a modular ton-scale pixel-readout liquid argon time projection chamber	Abed Abud, Adam;Granger, Pierre;Swain, Sanjay;Baldi, Pierre;Antoniassi, Marcelo;Pascoli, Silvia;De Jong, Paul;Tsverava, Nikolozi;Ghorbani-Moghaddam, Zahra;Learned, John;others		2024		

1517		arXiv: Supernova Pointing Capabilities of DUNE	Abed Abud, Adam;Granger, Pierre;Swain, Sanjay;Baldi, Pierre;Antoniassi, Marcelo;Pascoli, Silvia;De Jong, Paul;Tsverava, Nikolozi;Ghorbani-Moghaddam, Zahra;Learned, John;others		2024		
1518		arXiv: The hypothetical track-length fitting algorithm for energy measurement in liquid argon TPCs	Abed Abud, Adam;Granger, Pierre;Antoniassi, Marcelo;Sondheim, Walter;Popov, Vitaliy;Delmonte, Nicola;Chi, Cheng-Yi;Rebel, Brian;Thea, Alessandro;Fowler, Jack;others		2024		
1519	Communications Physics	Direct visualization of local magnetic domain dynamics in a 2D Van der Waals material/ferromagnetic interface	Joseph Vimal Vas, Rohit Medwal, Sourabh Manna, Mayank Mishra, Aaron Muller, John Rex Mohan, Yasuhiro Fukuma, Martial Duchamp, Rajdeep Singh Rawat	7	2024	407	

1520	Physical Review B	Observation of out-of-plane spin-orbit torque in a polycrystalline Py/IrMn ₃ heterostructure	Md Rejaul Karim, Sourabh Manna, Ayush K Gupta, John Rex Mohan, Suman Kumar Maharana, Joseph Vimal Vas, Arnab Bose, Surbhi Gupta, Rajdeep Singh Rawat, Hironori Asada, Yasuhiro Fukuma, Rohit Medwal	110	2024	245423	
1521	Advanced Optical Materials	Interfacial spintronic THz emission	Piyush Agarwal, Rohit Medwal, Keynesh Dongol, John Rex Mohan, Yingshu Yang, Hironori Asada, Yasuhiro Fukuma, Ranjan Singh	12	2024	240077	
1522	Advanced Optical Materials	Reconfigurable chiral spintronic THz emitters	Piyush Agarwal, Sobhan Subhra Mishra, Rohit Medwal, John Rex Mohan, Hironori Asada, Yasuhiro Fukuma, Ranjan Singh	12	2024	2303128	
1523	Journal of Superconductivity and Novel Magnetism	Magnetization Switching Dynamics of Electrodeposited Fe–Ni Thin Films	Kapil Dev, Ankit Kadian, VR Reddy, Rohit Medwal, S Annapoorni	37	2024	1243-1255	
1524	Spin	Interfacial Magnetic Anisotropy Controlled Spin Pumping in CoFeB/Pt Stack	Mahammad Tahir, Dhananjay Tiwari, Abhishek Juyal, Rohit Medwal, Soumik Mukhopadhyay	14	2024	2440001	

1525	Physica Scripta	Magnetization dynamics and domain reversal in electrodeposited permalloy thin films: impact of thickness and annealing treatment	Kapil Dev, VR Reddy, Rohit Medwal, Surbhi Gupta, CL Dong, CL Chen, K Asokan, S Annapoorni	99	2024	75533	
1526	Physical Review B	Phase binarization in mutually synchronized bias field free spin-Hall nano-oscillators for reservoir computing	Sourabh Manna, Rohit Medwal, John Rex Mohan, Yasuhiro Fukuma, Rajdeep Singh Rawat	109	2024	214425	
1527	Journal of Materials Research	Exchange-coupling enhanced: Tailoring structural and magnetic properties of Dy iron garnet ferrite nanoparticles via La substitution for switching devices	Anjori Sharma, Dipesh, Pragati Kumar, Joseph Vimal Vas, Rohit Medwal, AK Srivastava	39	2024	1576-1593	
1528	Journal of Physics: Condensed Matter	Charge-ordering breakdown dynamics and ferromagnetic resonance studies of B-site Cu diluted $\text{Pr}_{1-x}\text{Sr}_x\text{MnO}_3$	A Bordoloi, Suchit Kumar Jena, Priyanka Tiwari, Arjit Datta, Bruno Weise, Rohit Medwal, Rajdeep Singh Rawat, Subhash Thota	36	2024	295802	
1529	Physical Review B	Magnetization dynamics due to field interplay in external field free spin Hall nano-oscillators	Ayush K Gupta, Sourabh Manna, Rajdeep Singh Rawat, Rohit Medwal	109	2024	134421	

1530	Dynamic Games and Applications	Oscillatory Equilibrium in Asymmetric Evolutionary Games: Generalizing Evolutionarily Stable Strategy	Vikash Kumar Dubey, Suman Chakraborty, Sagar Chakraborty		2024		
1531	New Journal of Physics	Inferring to cooperate: Evolutionary games with Bayesian inferential strategies	Arunava Patra, Supratim Sengupta, Ayan Paul and Sagar Chakraborty	26	2024	63003	
1532	Physical Review B	Selective spin-wave nonreciprocity in an engineered chiral magnonic crystal without Dzyaloshinskii-Moriya interaction.	Diksha Prajapati, Chandrima Banerjee.	110	2024	22	
1533	Phys. Rev. B	Magnetic coupling at the interface between ultrathin tetragonal CuO and La0.7Sr0.3MnO3,	Digbijaya Palai, Ravinder Kumar, M. Tahir, P. Gupta, S. N. Sarangi, S. Bedanta, G. Tripathy, S. Mukhopadhyay, Z. Hossain.	109	2024	144423	
1534	Journal of High Energy Physics	"Lining up a positive semi-definite six-point bootstrap"	A. Antunes, S. Harris, A. Kaviraj, V. Schomerus,	2024	2024	58	
1535	Journal of High Energy Physics	"Comb channel lightcone bootstrap: triple twist anomalous dimension"	S. Harris, A. Kaviraj, J. Mann, L. Quintavalle, V. Schomerus,	2024	2024	Jan-77	
1536	Journal of Lightwave Technology	Millimeter lens array on flexible polymer for lensing, imaging and bi-directional beam shaping applications	Joshi G.;Vijaya R.	42	2024	8285	

1537	Physics of Plasmas	Fundamental units of triadic interactions in Hall magnetohydrodynamic turbulence: How far can we go?	Supratik Banerjee and Arijit Halder.	31	2024	62301	
1538	Physical Review Fluids	Stationary and non-stationary energy cascades in homogeneous ferrofluid turbulence	Sukhdev Mouraya, Nandita Pan, Supratik Banerjee	9	2024	94604	
1539	Physical Review D	Photoproduction of heavy QCD axions in supernovae	Sabyasachi Chakraborty, Aritra Gupta, Miguel Vanvlasselaer	110	2024	63032	
1540	Physical Review D	Feasibility of ultrarelativistic bubbles in SMEFT	Upalaparna Banerjee, Sabyasachi Chakraborty, Suraj Prakash, Shakeel Ur Rahaman	110	2024	55002	
1541	Physics Letters B	Measurements of Lund subjet multiplicities in 13 TeV proton-proton collisions with the ATLAS detector	Georges Aad, Erlend Aakvaag, Braden Keim Abbott, Sara Abdelhameed, Kira Abeling, Nils Julius Abicht, Haider Abidi, Mohammed Aboelela, Asmaa Aboulhorma, Halina Abramowicz, Yiming Abulaiti, Bobby Samir Acharya, Anke Ackermann, Claire Adam Bourdarios, Leszek Adamczyk, Sagar Addepalli, etc.	859	2024	139090	

1542	Journal of High Energy Physics	Using pile-up collisions as an abundant source of low-energy hadronic physics processes in ATLAS and an extraction of the jet energy resolution	Georges Aad, Erlend Aakvaag, B Abbott, Sara Abdelhameed, Kira Abeling, Nils Julius Abicht, SH Abidi, Mohammed Aboelela, Asmaa Aboulhorma, Halina Abramowicz, Henso Abreu, Yiming Abulaiti, Bobby Samir Acharya, Anke Ackermann, C Adam Bourdarios, Leszek Adamczyk, SV Addepalli, MJ Addison, Jahred Adelman, Aytul Adiguzel, Tim etc.	2024	2024	1-55	
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1543	Journal of High Energy Physics	Search for supersymmetry using vector boson fusion signatures and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	Georges Aad, Erlend Aakvaag, B Abbott, Sara Abdelhameed, Kira Abeling, Nils Julius Abicht, SH Abidi, Mohammed Aboelela, Asmaa Aboulhorma, Halina Abramowicz, Henso Abreu, Yiming Abulaiti, Bobby Samir Acharya, Anke Ackermann, C Adam Bourdarios, Leszek Adamczyk, SV Addepalli, MJ Addison, Jahred Adelman, Aytul Adiguzel, Tim Adye, AA Affolder, Yoav Afik, Merve Nazlim Agaras, Anamika Aggarwal, Catalin etc.	2024	2024	1-47	
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1544	Journal of High Energy Physics	Search for a light CP-odd Higgs boson decaying into a pair of τ -leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	Georges Aad, Erlend Aakvaag, B Abbott, Sara Abdelhameed, Kira Abeling, Nils Julius Abicht, SH Abidi, Mohammed Aboelela, Asmaa Aboulhorma, Halina Abramowicz, Henso Abreu, Yiming Abulaiti, Bobby Samir Acharya, Anke Ackermann, C Adam Bourdarios, Leszek Adamczyk, SV Addepalli, MJ Addison, Jahred Adelman, Aytul Adiguzel, etc.	2024	2024	1-51	
1545	Physical Review D	Search for heavy right-handed Majorana neutrinos in the decay of top quarks produced in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	Georges Aad, Erlend Aakvaag, B Abbott, Sara Abdelhameed, Kira Abeling, Nils Julius Abicht, SH Abidi, Mohammed et. Al.	110	2024	112004	
1546	Journal of Chemical Theory and Computation	Recalibration of MARTINI-3 Parameters for Improved Interactions between Peripheral Proteins and Lipid Bilayers	Jatin Soni, Shivam Gupta, Taraknath Mandal	20	2024	9673-9686	

1547	Mbio	SARS-CoV-2 spike fusion peptide trans interaction with phosphatidylserine lipid triggers membrane fusion for viral entry	Puspangana Singh, Purba Pahari, Srija Mukherjee, Sharmistha Karmakar, Markus Hoffmann, Taraknath Mandal, Dibyendu Kumar Das	15	2024	e01077-24	
1548	ACS nano	Comparing multifunctional viral and eukaryotic proteins for generating scission necks in membranes	Haleh Alimohamadi, Elizabeth Wei-Chia Luo, Shivam Gupta, Jaime de Anda, Rena Yang, Taraknath Mandal, Gerard CL Wong	18	2024	15545-15556	
1549	Physical Review B	Bulk-boundary correspondence in extended trimer Su-Schrieffer-Heeger model	Sonu Verma, Tarun Kanti Ghosh	110	2024	125424	
1550	Physical Review B	Entanglement signatures of a percolating quantum system	Subrata Pachhal, Adhip Agarwala	110	2024	L041112	
1551	Physical Review B	Spectral form factors of topological phases	Anurag Sarkar, Subrata Pachhal, Adhip Agarwala, Diptarka Das	109	2024	155126	
1552	Journal of Physics: Condensed Matter	Signatures of quantum phases in a dissipative system	Rohan Joshi, Saikat Mondal, Souvik Bandyopadhyay, Sourav Bhattacharjee, Adhip Agarwala	36	2024	275601	
1553	Advances in Physics: X	Orbital angular momentum of Bloch electrons: equilibrium formulation, magneto-electric phenomena, and the orbital Hall effect	Rhonald Burgos Atencia, Amit Agarwal, Dimitrie Culcer	9	2024	2371972	

1554	Nature Reviews Materials	Tunable moiré materials for probing Berry physics and topology	Pratap Chandra Adak, Subhajit Sinha, Amit Agarwal, Mandar M Deshmukh	9	2024	481-498	
1555	Advanced Materials Interfaces	Insights into the Stability and Surface Termination of Topological Semimetal NbAs ₂	Gianluca D'Olimpio, Yanxue Zhang, Marcin Rosmus, Silvia Nappini, Atasi Chakraborty, Natalia Olszowska, Luca Ottaviano, Raman Sankar, Amit Agarwal, Federica Bondino, Junfeng Gao, Antonio Politano	11	2024	2300810	
1556	ACS Applied Electronic Materials	Room-Temperature Ferroelectricity, Ferromagnetism, and Anomalous Hall Effect in Half-Metallic Monolayer CrTe	Imran Ahamed, Atasi Chakraborty, Pushpendra Yadav, Rik Dey, Yogesh Singh Chauhan, Somnath Bhowmick, Amit Agarwal	6	2024	3810-3819	
1557	IEEE Sensors Journal	Enhanced Optoelectronic Traits of Monolayer h-BAs for Augmented NO _x (NO and NO ₂) Gas Sensing	Neha Mishra; Santosh Kumar; Amit Agarwal; Avirup Dasgupta	24	2024	20504-20511	
1558	Physical Review B	Two-channel Kondo problem in coupled interacting helical liquids	Sourav Biswas, Alessandro De Martino, Sumathi Rao, Arijit Kundu	109	2024	155119	
1559	Journal of High Energy Physics	A generalized Selberg zeta function for flat space cosmologies	Arjun Bagchi, Cynthia Keeler, Victoria Martin, Rahul Poddar	2024	2024	1-24	

1560	Journal of Physics: Condensed Matter	Impact of Cr doping on Hall resistivity and magnetic anisotropy in SrRuO3 thin films	Pooja Kesarwani, Santosh K Khetan, B Ojha, RJ Choudhary, VR Reddy, Subhankar Bedanta, PS Anil Kumar, Chanchal Sow	37	2024	65803	
1561	Phys. Rev. B	Stabilization of ferromagnetism via structural modulations in Cr-doped CaRuO3: A neutron diffraction and Raman spectroscopy study		110	2024	184425	
1562	Journal of Physics: Condensed Matter	Evolution of ferrimagnetism against Griffiths singularity in calcium ruthenate	Pooja Kesarwani, Sachindra Nath Sarangi, D Samal, Chanchal Sow	36	2024	265603	
1563	Physical Review B	Structural modulation driven Curie temperature enhancement in Cr-doped SrRuO3	Pooja, Bikash Saha, Nitesh Choudhary, Pradip K Maji, AK Bera, SM Yusuf, Chanchal Sow	109	2024	144404	
1564	Journal of Physics: Condensed Matter	Exploration of quantum oscillation in antiferromagnetic Weyl semimetal GdSiAl	Priyanka Meena, Amarjyoti Choudhury, Mohit Mudgal, Sonika Bagga, VK Tiwari, Sarita Rajput, CS Yadav, Vivek Kumar Malik, T Maitra, Jayita Nayak	37	2024	65704	

1565	Electrochemical Society Meeting Abstracts 245	Energy Efficiency of Steady DC and Half Sine Pulsed DC in the High Voltage Pre-Plasma and Plasma Alkaline Water Electrolysis	Raviraj SINGH Nehra, Ankit Kumar, Shyam Sunder Lakesar, KP Rajeev, Raj Ganesh Pala	MA2 024-01,	2024	1414-1414	
1566	QJM: An International Journal of Medicine	Tzanck smear: revisiting the basics	Shreya Srinivasan, N Ashok Kumar, Kavya Rajeev	117	2024	285-286	
1567	Electron Density: Concepts, Computation and DFT Applications	Levy–Perdew–Sahni Equation and the Kohn–Sham Inversion Problem	Ashish Kumar, Manoj K Harbola		2024	1-25	
1568	The European Physical Journal Special Topics	Machine learning in experimental neutrino physics	N Poonthottathil	233	2024	2687–2698	
1569	IEEE Transactions on Electromagnetic Compatibility	Harmonic engineering in sub-wavelength cavities & design of ultrabroadband microwave absorbers by reflection phase manipulation	Nitish Kumar Gupta, Sudeb Bhattacharya, Abhinav Bhardwaj, Kumar Vaibhav Srivastava, Janakarajan Ramkumar, Harshawardhan Wanare, S Anantha Ramakrishna	66	2024	1079-1086	
1570	Advanced Photonics Research	Direct determination of photonic stopband topological character: A framework based on dispersion measurements	Nitish Kumar Gupta, Sapireddy Srinivasu, Mukesh Kumar, Anjani Kumar Tiwari, Sudipta Sarkar Pal, Harshawardhan Wanare, S Anantha Ramakrishna	5	2024	2300155	

1571	ACS Applied Electronic Materials	Co ₂ C Nanoparticle-Decorated Grain Boundaries: A Source of Robust, Thermally Stable Vortex Pinning in Bi-2223 High T _c Superconductors	Sourav M Karan, Tamoghna Chatteraj, Md Arif Ali, SS Banerjee	7	2024	202-214	
1572	Physical Review Materials	Understanding the behavior of exchange bias and coercive fields and connections with anisotropic interfaces in Co ₂ C nanoparticle system	Suprotim Saha, PC Mahato, Sugata Paul, SS Banerjee	8	2024	116001	
1573	Physical Review B	Dimension-dependent critical scaling analysis and emergent competing interaction scales in a two-dimensional van der Waals magnet Cr ₂ Ge ₂ Te ₆	PC Mahato, Suprotim Saha, Bikash Das, Subhadeep Datta, Rajib Mondal, Sourav Mal, Ashish Garg, Prasenjit Sen, SS Banerjee	109	2024	165405	
1574	Royal Society Open Science	Deciphering the influence of NaCl on social behaviour of Bacillus subtilis	Prem Anand Murugan, Muktesh Kumar Sahu, Manish Kumar Gupta, T Sabari Sankar, Sivasurender Chandran, Saravanan Matheshwaran	11	2024	240822	
1575	Langmuir	Harnessing Polar Interactions Tunes the Stability of Ultrathin Polymer Solution Films	Shreyanil Bhuyan, Sivasurender Chandran, Dipin S Pillai	40	2024	17699-17709	
1576	Physical Review E	Harnessing density to control the duration of intermittent Lévy walks in bacterial turbulence	Dhananjay Gautam, Hemlata Meena, Saravanan Matheshwaran, Sivasurender Chandran	110	2024	L012601	

1577	ACS Polymers Au	Pattern Formation in Evaporating Polymer Solutions– Interplay between Dewetting and Decomposition	Pankaj Mahawar, M Praveena, Shreyanil Bhuyan, Dipin S Pillai, Sivasurender Chandran	4	2024	302-310	
1578	The Journal of Physical Chemistry Letters	Fast Processing Affects the Relaxation of Polymers: The Slow Arrhenius Process Can Probe Stress at the Molecular Level	Erik Thoms, Kai Wang, Sivasurender Chandran, Simone Napolitano	15	2024	4838-4843	
1579	Advanced materials	Time-Reversal Symmetry Breaking Superconductivity in HfRhGe: A Noncentrosymmetric Weyl Semimetal	Sajilesh. K. P., Roshan Kumar Kushwaha, Dibyendu Samanta, Tymoteusz Tula, Pavan Kumar Meena, Shashank Srivastava, Deepak Singh, Pabitra Kumar Biswas, Amit Kanigel, Adrian D. Hillier, Sudeep Kumar Ghosh,* and Ravi Prakash Singh	37	2024	2415721 (1 of 9	
1580	Physical Review B	Signature of point nodal superconductivity in the Dirac semimetal PdTe	CS Yadav, Sudeep Kumar Ghosh, Pankaj Kumar, A Thamizhavel, PL Paulose	110	2024	54515	

1581	Journal of High Energy Physics	Troubles mounting for multipolar dark matter	Debajit Bose(Indian Inst. Tech., Kharagpur), Debtosh Chowdhury(Indian Inst. Tech., Kanpur),Poulami Mondal(Indian Inst. Tech., Kanpur),Tirtha Sankar Ray(Indian Inst. Tech., Kharagpur)	06	2024	1-12	
1582	Physical Review D	Ultralight dark matter explanation of NANOGrav observations	Debtosh Chowdhury(Indian Inst. Tech., Kanpur) , Arpan Hait(Indian Inst. Tech., Kanpur) , Subhendra Mohanty(Indian Inst. Tech., Kanpur) , Suraj Prakash(Indian Inst. Tech., Kanpur)	110	2024	83023	
1583	Physical Review D	Reassessing constant-roll warm inflation	Sandip Biswas(Indian Inst. Tech., Kanpur and Amity U., Sch. Eng. Tech.), Kaushik Bhattacharya(Indian Inst. Tech., Kanpur and Amity U., Sch. Eng. Tech.) , Suratna Das(Ashoka U.)	110	2024	63536	

1584	Physical Review D	Gravitational collapse of matter in the presence of nonminimally coupled quintessence and phantomlike scalar fields	Priyanka Saha(Indian Inst. Tech., Kanpur), Dipanjan Dey(Dalhousie U.), Kaushik Bhattacharya(Indian Inst. Tech., Kanpur)	109	2024	10, 104023	
1585	Journal of High Energy Physics	``Anatomy of null contractions,"	A. Bagchi, M. Nachiketh and P. Soni,	09	2024	141	
1586	Physical Review Letters	Simultaneous Unbinned Differential Cross-Section Measurement of Twenty-Four Z + jets Kinematic Observables with the ATLAS Detector	Sanmay G. et al. (ATLAS Collaboration)	133	2024	261803	
1587	The European Physical Journal C	Underlying-event studies with strange hadrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	Sanmay G. et al. (ATLAS Collaboration)	84	2024	1335	
1588	The European Physical Journal C	Operation and performance of the ATLAS tile calorimeter in LHC Run 2	Sanmay G. et al. (ATLAS Collaboration)	84	2024	1313	
1589	Physical review letters	Disentangling Sources of Momentum Fluctuations in Xe + Xe and Pb + Pb Collisions with the ATLAS Detector	Sanmay G. et al. (ATLAS Collaboration)	133	2024	252301	

1590	Physica B: Condensed Matter	Investigations on phenomenological percolation assisted charge conduction mechanisms across LaFeO_3 / $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ / SrTiO_3 structure	Dadhich H.;Rajyaguru B.;Goswami H.;Shrimali V.G.;Rajput I.;Mukherjee S.;Lakhani A.;Kumar D.;Shah N.A.;Solanki P.S.	699	2025		
1591	Journal of Alloys and Compounds	Electronic transport and Fermi surface topology of nontrivial Dirac metal SrZn_2Ge_2	Hooda M.K.;Chakraborty A.;Roy S.;Swami R.;Agarwal A.;Mandal P.;Sarangi S.N.;Samal D.;Awana V.P.S.;Hossain Z.	1010	2025	178130	

1592	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	Measurement of inclusive and differential cross sections for $W^{+}W^{-}$ production in proton-proton collisions at $\sqrt{s}=13.6$ TeV	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Waltenberger W.;Wulz C.E.;Janssen T.;Van Laer T.;Van Mechelen P.;Breugelmans N.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Heyen F.;Lowette S.;Makarenko I.;Müller	861	2025		
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1593	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	Study of WH production through vector boson scattering and extraction of the relative sign of the W and Z couplings to the Higgs boson in proton-proton collisions at s=13TeV	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Laer T.;Van Mechelen P.;Breugelmans N.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Heyen E.;Lowette	860	2025		
1594	Physical Review Letters	Planar Hall Effect in Quasi-Two-Dimensional Materials	Ghorai K.;Das S.;Varshney H.;Agarwal A.	134	2025	26301	
1595	Physical Review B	High mobility and directional magnetotransport in (001)- and (110)-oriented two-dimensional electron gas at spin-coated PrAlO3/SrTiO3 interfaces	Maharana B.;Hossain Z.	111	2025		

1596	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	Constraints on the Higgs boson self-coupling from the combination of single and double Higgs boson production in proton-proton collisions at $\sqrt{s}=13\text{TeV}$	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Laer T.;Van Mechelen P.;Breugelmans N.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Heyen E.;Lowette	861	2025		
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1597	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	Girth and groomed radius of jets recoiling against isolated photons in lead-lead and proton-proton collisions at $\sqrt{s_{NN}}=5.02$ TeV	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Mechelen P.;Bols E.S.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Lowette S.;Makarenko I.;Müller	861	2025		
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1598	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	Pseudorapidity distributions of charged hadrons in lead-lead collisions at $\sqrt{s_{NN}}=5.36\text{TeV}$	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Mechelen P.;Breugelmans N.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Heyen F.;Lowette S.;Makarenko	861	2025		
1599	Physical Review Letters	Multiple Carrier Generation at an Exceptionally Low Energy Threshold	Karmakar R.;Taank P.;Ghoshal D.;Yadav P.;Mandal D.;Shrivastava M.;Agarwal A.;Beard M.C.;Miller E.M.;Adarsh K.V.	134	2025	26903	
1600	Physical Review E	Evaluating ion dynamics through Coulomb and Yukawa interaction potentials in one-component strongly coupled plasmas	Mishra S.S.;Bhattacharjee S.;Brault P.	111	2025	15208	
1601	Journal of Cosmology and Astroparticle Physics	Dynamical interiors of black-bounce spacetimes	Pal K.;Pal K.;Sarkar T.	2025	2025	69	

1602	Physical Review B	Time-resolved ARPES and optical transport properties of irradiated twisted bilayer graphene in a steady state	Dubey A.;Kundu R.;Kundu A.	111	2025	35431	
1603	EPL	Macroscopic arrow of time from multiscale perspectives	Verma M.K.	149	2025	21001	
1604	Science Advances	Wide-ranging predictions of new stable compounds powered by recommendation engines	Griesemer S.D.;Baldassarri B.;Zhu R.;Shen J.;Pal K.;Park C.W.;Wolverton C.	11	2025		
1605	Angewandte Chemie - International Edition	Visible-Light Photodetection by Zero-Dimensional Hybrid Indium-Halide with Minimal Structural Distortion and Reduced Band Gap	Mondal A.;Ubaid M.;Gupta S.;Pal K.;Bhattacharyya S.	64	2025		
1606	Journal of Physical Chemistry C	Electronic Band Structure of Gallium Sulfide (GaS) with Thickness Reduction Unveiling Parabolic and Pudding Mold Band Dispersion	Elameen A.A.A.;Dutta D.;Duman S.;Rosmus M.;D'Olimpio G.;Gürbulak B.;Boukhvalov D.W.;Agarwal A.;Politano A.	129	2025	3967–3974	

1607	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	Search for the Higgs boson decays to a ρ^0 , ϕ , or K^0 meson and a photon in proton-proton collisions at $\sqrt{s}=13\text{TeV}$	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Waltenberger W.;Wulz C.E.;Janssen T.;Van Laer T.;Van Mechelen P.;Breugelmans N.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Heyen F.;Lowette S.;Makarenko I.;Müller	862	2025		
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1608	Physical Review Letters	Search for New Resonances Decaying to Pairs of Merged Diphotons in Proton-Proton Collisions at (Formula presented)	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Mechelen P.;Bols E.S.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Lowette S.;Makarenko I.;Müller	134	2025		
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1609	Physical Review D	Search for charged-lepton flavor violation in the production and decay of top quarks using trilepton final states in proton-proton collisions at (Formula presented)	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Escalante Del Valle A.;Hussain P.S.;Jeitler M.;Krammer N.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Mechelen P.;Bols E.S.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;El Faham H.;Lowette	111	2025		
1610	Journal of Physics D: Applied Physics	Field emission study on atomically heterogeneous micro-metallic emitters produced by ion beam from inert gas plasmas	Majumdar J.;Bhattacharjee S.	58	2025	135205	
1611	Surfaces and Interfaces	Low energy ion-beam mediated tailoring of structural, optical, and electrical properties of ITO films	Mukherjee J.;Bhowmik D.;Bhowmick S.;Karmakar P.;Bhattacharjee S.	59	2025	105973	
1612	Physics of Fluids	Universal cascade and relaxation of strong anisotropic turbulence in plasma fluids	Sasmal R.;Banerjee S.	37	2025		

1613	Advanced Materials	Glassy Thermal Transport Triggers Ultra-High Thermoelectric Performance in GeTe	Sarkar D.;Das S.;Taneja V.;Samanta M.;Jagadish K.;Das A.;Bhakar M.;Matukumilli P.V.D.;Perumal S.;Sheet G.;Sanyal D.;Pal K.;Ravishankar N.;Waghmare U.V.;Biswas K.	37	2025		
1614	Journal of Materials Chemistry A	High-throughput and data-driven search for stable optoelectronic AMSe ³ materials	Singh N.;Samanta K.;Maharana S.K.;Pal K.;Tretiak S.;Talapatra A.;Ghosh D.	13	2025	9192-9210	
1615	Journal of High Energy Physics	A classical Bousso bound for higher derivative corrections to general relativity	Bhattacharyya S.;Biswas P.;Kundu N.	2025	2025	1-21	
1616	Optics Express	Experimental technique for measuring radial coherence	Prasad R.;Senapati N.;Karan S.;Bhattacharjee A.;Piccirillo B.;Alonso M.A.;Jha A.K.	33	2025	11693-11701	
1617	Physical Review Letters	Giant Gate-Controlled Odd-Parity Magnetoresistance in Magnetized Bilayer Graphene at Room Temperature	Sahani D.;Das S.;Watanabe K.;Taniguchi T.;Agarwal A.;Bid A.	134	2025		
1618	Science Advances	Broadband uniform-efficiency OAM-mode detector	Karan S.;Van Exter M.P.;Jha A.K.	11	2025	eadq7201	

1619	Journal of Cosmology and Astroparticle Physics	Comprehensive study of k-essence model: dynamical system analysis and observational constraints from latest Type Ia supernova and BAO observations	Hussain S.;Nelleri S.;Bhattacharya K.	2025	2025		
1620	Journal of Cosmology and Astroparticle Physics	Dark matter cooling during early matter-domination boosts sub-earth halos	Banerjee A.;Chowdhury D.;Hait A.;Islam M.S.	30	2025	32	
1621	Physical Review Letters	Search for Nuclear Modifications of (Formula presented) Meson Production in (Formula presented)-Pb Collisions at (Formula presented)	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Mechelen P.;Breugelmans N.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Heyen F.;Lowette S.;Makarenko	134	2025		

1622	Physical Review D	Test of lepton flavor universality in semileptonic (Formula presented) meson decays in proton-proton collisions at (Formula presented)	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Van Mechelen P.;Bols E.S.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Lowette S.;Makarenko I.;Müller	111	2025		
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1623	Journal of High Energy Physics	Search for long-lived heavy neutral leptons in proton-proton collision events with a lepton-jet pair associated with a secondary vertex at $s = 13$ TeV	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Hussain P.S.;Jeitler M.;Krammer N.;Li A.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Janssen T.;Van Laer T.;Van Mechelen P.;Breugelmans N.;D'Hondt J.;Dansana S.;De Moor A.;Delcourt M.;Heyen F.;Lowette S.;Makarenko	2025	2025		
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1624	Journal of High Energy Physics	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV	Hayrapetyan A.;Tumasyan A.;Adam W.;Andrejkovic J.W.;Bergauer T.;Chatterjee S.;Damanakis K.;Dragicevic M.;Escalante Del Valle A.;Hussain P.S.;Jeitler M.;Krammer N.;Lechner L.;Liko D.;Mikulec I.;Schieck J.;Schöffbeck R.;Schwarz D.;Sonawane M.;Templ S.;Waltenberger W.;Wulz C.E.;Darwish M.R.;Janssen T.;Kello T.;Van Mechelen P.;Bols E.S.;D'Hondt J.;De Moor A.;Delcourt M.;El Faham H.;Lowette	2025	2025		
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1625	European Physical Journal C	Measurement of multidifferential cross sections for dijet production in proton–proton collisions at $\sqrt{s}=13\text{TeV}$	Zhokin A.;Zhizhin I.;Zarubin A.;Yuldashev B.S.;Voytishin N.;Vorobyev A.;Uzunian A.;Uvarov L.;Toropin A.;Tlisova I.;Teryaev O.;Terkulov A.;Tcherniaev E.;Sulimov V.;Sosnov D.;Snigirev A.;Smirnov V.;Slabospitskii S.;Skovpen Y.;Shulha S.;Shmatov S.;Shalaev V.;Selivanova D.;Savrin V.;Savina M.;Rusinov V.;Radchenko O.;Popov V.;Polikarpov S.;Petrushanko S.;Perelovin	85	2025		
1626	Small	Detecting Lifshitz Transitions Using Nonlinear Conductivity in Bilayer Graphene	Ahmed T.;Varshney H.;Tu B.Q.;Watanabe K.;Taniguchi T.;Gobbi M.;Casanova F.;Agarwal A.;Hueso L.E.		2025		
1627	Ultramicroscopy	Quantitative magnetic mapping in TEM through accurate 2D thickness determination	Joseph Vimal Vas, Hasan Ali, Wen Shi, Thibaud Denneulin, Ayush Gupta, Rohit Medwal, Rafal E Dunin-Borkowski		2025	114140	

1628	Journal of Materials Engineering and Performance	Optimizing Fe3Pt/Pt Thin Films with Ag Additives: Structural and Magnetic Analysis	Rekha Gupta, Rajan Goyal, Rohit Medwal, S Annapoorni		2025		
1629	ACS Applied Materials & Interfaces	Observation of Out-of-Plane Antidamping Torque at the Platinum/Permalloy Interface	John Rex Mohan, Utkarsh Shashank, Angshuman Deka, Takayasu Hanashima, Rohit Medwal, Surbhi Gupta, Rajdeep Singh Rawat, Hironori Asada, Yasuhiro Fukuma		2025		
1630	Applied Physics Letters	Charge-to-spin conversion at argon ion milled SrTiO3/NiFe hetero-interfaces	Amrendra Kumar, Utkarsh Shashank, Suman Kumar Maharana, John Rex Mohan, Joseph Vimal Vas, Surbhi Gupta, Hironori Asada, Rafal E Dunin-Borkowski, Yasuhiro Fukuma, Rohit Medwal	126	2025	32401	
1631	Physical Review B	Spin current driven self-reliant magnetic vortex synapses	Aman Khosla, Ayush K Gupta, Suman Kumar Maharana, Dhruv Mittal, Mohd S Sabir, Rohit Medwal	111	2025	14423	
1632	Scientific Reports	Broadband and Wide-angle Antireflective Metasurfaces with Complementary Patterns	Biswas V.; Vijaya R.	15	2025	6322	

1633	Angewandte Chemie,	Impact of Pressure on Metavalent Bonding in BiTe influencing Electronic Topological Transitions	Riddhimoy Pathak, Anjana Joseph, Prabir Dutta, Bobby Joseph, Jyoti Duhan, Sushmita Chandra, Chandrabhas Narayana, Koushik Pal, Kanishka Biswas	TBA	2025	e202422652	
1634	Scientific Reports	Short and long-range magnetic ordering and emergent topological transition in (Mn _{1-x} Ni _x) ₂ P ₂ S ₆	Nasaru Khan, Deepu Kumar, Shantanu Semwal, Yuliia Shemerliuk, Bernd Büchner, Koushik Pal, Saicharan Aswartham, and Pradeep Kumar	15	2025	4438	
1635	Physica Scripta	Electrically controlled focusing of de Broglie matter waves by Fresnel zone plate	Sushanta Barman and Sudeep Bhattacharjee*	100	2025	45404	
1636	Physics of Plasmas (LETTER)	Observation of astrophysically relevant superadiabaticity in a plasma confined by a dipole magnet,	Ayesha Nanda ; Sudeep Bhattacharjee	32	2025	30703	
1637	The Astrophysical Journal	Emergence of Two Inertial Subranges in Solar Wind Turbulence: Dependence on Heliospheric Distance and Solar Activity	S Mondal, S Banerjee, L Sorriso-Valvo	982	2025	199	
1638	Phys. Rev. D 111	Gluon gravitational form factors of the proton in a light-front spectator model	A. Sain, P. Choudhary, B. Gurjar, C. Mondal, D. Chakrabarti and A. Mukherjee,	9	2025	94011	

1639	J. Phys. Chem.	Inhomogeneous Hysteresis in Local Tunnel Conductance with Gate Voltage in Single-Layer MoS2 on SiO2	Santu Prasad Jana, Suraina Gupta, and Anjan K. Gupta	129	2025	1304	
1640	Physical Review Letters	Search for Dark Matter Produced in Association with a Dark Higgs Boson in the Final State Using Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector	Georges Aad, E Aakvaag, B Abbott, S Abdelhameed, K Abeling, NJ Abicht, SH Abidi, M Aboelela, A Aboulhorma, H Abramowicz, H Abreu, Y Abulaiti, BS Acharya, A Ackermann, C Adam Bourdarios, L Adamczyk, SV Addepalli, MJ Addison, J Adelman, A Adiguzel, T Adye, AA Affolder, Y Afik, MN Agaras etc.	134	2025	121801	
1641	Physical Review D	Combination of searches for singly produced vectorlike top quarks in pp collisions at under root s = 13 TeV with the ATLAS detector	J Gallagher, CM Grant, MJ Green, P Jackson, AXY Kong, HD Pandya, et al.	111	2025	012012	

1642	Physical Review D	Measurement of photonuclear jet production in ultraperipheral Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector	G. Aad ¹⁰⁵ , E. Aakvaag ¹⁷ , B. Abbott ¹²⁴ , S. Abdelhameed ^{120a} , K. Abeling ⁵⁷ , N. J. Abicht ⁵¹ , S. H. Abidi ³⁰ , M. Aboelela ⁴⁶ , A. Aboulhorma ^{36e} et al. (ATLAS Collaboration)	111	2025	052006	
1643	Journal of High Energy Physics	Search for Higgs boson decays into a pair of pseudoscalar particles in the $\gamma\gamma$ final state using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector.	G Aad, E Aakvaag, B Abbott, S Abdelhameed, K Abeling, NJ Abicht, SH Abidi, M Aboelela, A Aboulhorma, H Abramowicz, Y Abulaiti, BS Acharya, A Ackermann, C Adam Bourdarios, L Adamczyk, SV Addepalli, MJ Addison, J Adelman, A Adiguzel, T Adye, AA Affolder, Y Afik, MN Agaras, A Aggarwal, C Agheorghiesei et al.	2025	2025	1-39	

1644	Physical Review Letters	Search for Magnetic Monopole Pair Production in Ultraperipheral Pb + Pb Collisions at $\sqrt{s_{NN}} = 5.36$ TeV with the ATLAS Detector at the LHC	G Aad, E Aakvaag, B Abbott, S Abdelhameed, K Abeling, NJ Abicht, SH Abidi, M Aboelela, A Aboulhorma, H Abramowicz, H Abreu, Y Abulaiti, BS Acharya, A Ackermann, C Adam Bourdarios, L Adamczyk, SV Addepalli et. Al.	134	2025	061803	
1645	Physical Review D	Measurement of photonuclear jet production in ultraperipheral	G Aad, E Aakvaag, B Abbott, S Abdelhameed, K Abeling, NJ Abicht, SH Abidi, M Aboelela, A Aboulhorma, H Abramowicz, H Abreu, Y Abulaiti, BS Acharya, A Ackermann, C Adam Bourdarios, L Adamczyk, SV Addepalli, MJ Addison, J Adelman, A Adiguzel, T Adye, AA Affolder, Y Afik, MN Agaras, J Agarwala, A Aggarwal, et al.	111	2025	052006	

1646	Journal of Chemical Theory and Computation	Can Coarse-Grained Molecular Dynamics Simulations Predict Pharmaceutical Crystal Growth?	Linghao Shi, Futianyi Wang, Taraknath Mandal, Ronald G Larson	21	2025	3321-3334	
1647	Nature Physics	Thermopower probes of emergent local moments in magic-angle twisted bilayer graphene	Ayan Ghosh, Souvik Chakraborty, Ranit Dutta, Adhip Agarwala, K Watanabe, T Taniguchi, Sumilan Banerjee, Nandini Trivedi, Subroto Mukerjee, Anindya Das	21	2025	732–739	
1648	Physical Review B	Tunable topological phases in quantum kirigamis	Rahul Singh, Adhip Agarwala	111	2025	85106	
1649	Advanced Materials	Quantum geometric moment encodes stacking order of moiré matter	Surat Layek, Subhajit Sinha, Atasi Chakraborty, Ayshi Mukherjee, Heena Agarwal, Kenji Watanabe, Takashi Taniguchi, Amit Agarwal, Mandar M Deshmukh	37	2025	2417682	
1650	IEEE Transactions on Electron Devices	Transistors Based on Novel 2-D Monolayer Semiconductors BiOSe, InSe, and MoSiN for Enhanced Logic Density Scaling	Keshari Nandan, Ateeb Naseer, Amit Agarwal, Somnath Bhowmick, Yogesh S Chauhan	72	2025	516-521	

1651	Physical Review Letters	Boundary Carrollian Conformal Field Theories and Open Null Strings	Arjun Bagchi, Pronoy Chakraborty, Shankhadeep Chakrabortty, Stefan Fredenhagen, Daniel Grumiller, Priyadarshini Pandit	134	2025	71604	
1652	Monthly Notices of the Royal Astronomical Society	Magnetic interaction of stellar coronal mass ejections with close-in exoplanets: implication on planetary mass-loss and Ly α transits	Gopal Hazra, Aline A Vidotto, Stephen Carolan, Carolina Villarreal D'Angelo, Dúalta Ó Fionnagáin	536	2025	1089-1103	
1653	Physical Review Research	Electronic states in superconducting type-II Dirac semimetal: 1T-PdSeTe	Yogendra Kumar, Shiv Kumar, Venkateswara Yenugonda, Ryohei Oishi, Jayita Nayak, Chaoyu Chen, Ravi Prakash Singh, Takahiro Onimaru, Yasuyuki Shimura, Shin-ichiro Ideta, Kenya Shimada	7	2025	13174	
1654	Soft Matter	Adhesion study at the interface of a PDMS-elastomer and borosilicate glass-slide: effect of modulus and thickness of the elastomer	Susheel Kumar, Chiranjit Majhi, Krishnacharya Khare, Manjesh K Singh	21	2025	2493-2501	

1655	General Relativity and Gravitation	On the interrelation of the generalized holographic equipartition and entropy maximization in Kaniadakis paradigm	Pranav Prasanthan, Sarath Nelleri, Archana K Pradeepan, Navaneeth Poonthottathil, Emmanuel Tom	57	2025	6	
1656	Macromolecules	Effect of Thermal Annealing on the Bound Layer in Polymer Thin Films: Insights from Swelling Kinetics and Guiselin's Approach	Sonam Zangpo Bhutia, Sivasurender Chandran, Sathish K Sukumaran, Dillip K Satapathy	58	2025	3564-3577	
1657	Journal of Cosmology and Astroparticle Physics	SIMP dark matter during reheating	Debtosh Chowdhury,a Sudipta Show	101	2025	1-22	
1658	Phys.Rev.D	End equilibrium state of a spherical gravitational collapse in the presence of matter and a scalar field	Debanjan Debnath(Indian Inst. Tech., Kanpur) , Dipanjan Dey(BIMSA, Beijing), Kaushik Bhattacharya(Indian Inst. Tech., Kanpur)	111	2025	1-17	
1659	JOURNAL OF HIGH ENERGY PHYSICS	Search for single-production of vector-like quarks decaying into Wb in the fully hadronic final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	Sanmay G. et al. (ATLAS Collaboration)	2025	2025	1-44	

Department of Space Planetary & Astronomical Sciences & Engineering

1660	The Astrophysical Journal	Exploring the Broadband Spectral and Timing Characteristics of GRS 1915+105 with AstroSat and NICER Observations	Ruchika Dhaka, Ranjeev Misra, Pankaj Jain, and J. S. Yadav	Volume 974	2024	90	
1661	Phys. Rev. C	Low energy nuclear reactions through weak interactions,	K. Ramkumar, H. Kumar, P. Jain	10	2024	44605	
1662	Monthly Notices of the Royal Astronomical Society Letters	Colour dependence of dipole in CatWISE2020 data	M. Panwar, P. Jain and A. Omar	535	2024	L-63	
1663	Sci Rep	Experimental and theoretical validation for transmutation of palladium at electrochemical interfaces	T. Gadly et al.	14	2024	21270	
1664	The Astrophysical Journal	Detection of Simultaneous Quasiperiodic Oscillation Triplets in 4U 1728-34 and Constraining the Neutron Star Mass and Moment of Inertia	Kewal Anand, Ranjeev Misra, J. S. Yadav, Pankaj Jain, Umang Kumar, and Dipankar Bhattacharya	2	2024	129	
1665	Journal of Cosmology and Astroparticle Physics	Probing the cosmological principle using the slope of log N-log S relationship for quasars	Mohit Panwar and Pankaj Jain	6	2024	19	

1666	Nature	A temperate super-Jupiter imaged with JWST in the mid-infrared	Matthews E. C., Carter A. L., Pathak P., Morley C. V., Phillips M. W., Krishanth P. M. S., Feng F., Bonse M. J., Boogaard L. A., Burt J. A., Crossfield I. J. M., Douglas E. S., Henning, Th., Hom J., Ko C.-L., Kasper M., Lagrange A.-M., Petit dit de la Roche D., Philipot F.		2024		
1667	Proceedings of the SPIE,	ALF: an asymmetric Lyot wavefront sensor for the ELT/METIS vortex coronagraph	Orban de Xivry G., Absil O., Delacroix C., Pathak P., Quesnel M., Bertram T., "ALF	####	2024	8	
1668	Proceedings of the SPIE,	METIS high-contrast imaging: from final design to manufacturing and testing	Absil O., Kenworthy M., Delacroix C., Orban de Xivry G., Konig L., " Pathak P., Doelman D., Emiel P., Frans S., Joost Born V. D., Faustine C., Alexis C, Benjamin C.-B., Pontus F., Mikael K., Thomas B., Roy V. B., Dennis D., Markus F., Adrian M. G., Eric P., Sascha P. Q., Felix B., Bernhard B.	####	2024	16	

1673	Advances in Cancer Biology - Metastasis	Multi drug resistance in Colorectal Cancer-approaches to overcome, advancements and future success	Ashique S.;Bhowmick M.;Pal R.;Khatoon H.;Kumar P.;Sharma H.;Garg A.;Kumar S.;Das U.	10	2024		
1674	Drug Discovery Today	Potential of postbiotics for the treatment of metabolic disorders	Mishra N.;Garg A.;Ashique S.;Bhatt S.	29	2024		
1675	Chemical Engineering Journal	Ruthenium doping of NASICON electrolyte augments the performance of solid-state sodium-ion batteries	Dinachandra Singh M.;Kumar Gorai D.;Brajesh K.;Singh P.;Ranawade V.;Vijay Shinde A.;Jareer M.;Gupta R.;Garg A.;Agarwal V.;Nalwa K.S.	489	2024		
1676	Archivos de Bronconeumologia	A Critical Review on the Role of Probiotics in Lung Cancer Biology and Prognosis	Ashique S.;Mishra N.;Garg A.;Kumar N.;Khan Z.;Mohanto S.;Chellappan D.K.;Farid A.;Taghizadeh-Hesary F.	60	2024	S46-S58	
1677	Heliyon	Gut-brain axis: A cutting-edge approach to target neurological disorders and potential synbiotic application	Ashique S.;Mohanto S.;Ahmed M.G.;Mishra N.;Garg A.;Chellappan D.K.;Omara T.;Iqbal S.;Kahwa I.	10	2024		

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1680	International Journal of Thermofluids	Exergoeconomic and environmental optimization of gas turbine-based CCHP systems: A comprehensive study with multi-objective optimization and decision making	Nondy J.;Gogoi T.K.	23	2024		

1681	Applied Thermal Engineering	A novel solar tower simulator for hydrogen regeneration by Thermo-Catalytic cracking of Ammonia: Energy, Exergy, and CFD investigations	Arya D.;Awasthi K.;Hedau G.;Chandra L.	256	2024		
1682	Naunyn-Schmiedeberg's Archives of Pharmacology	Crosstalk between ROS-inflammatory gene expression axis in the progression of lung disorders	Ashique S.;Mishra N.;Mantry S.;Garg A.;Kumar N.;Gupta M.;Kar S.K.;Islam A.;Mohanto S.;Subramaniyan V.	398	2025	417-448	
1683	Brain Research	The role of ACE inhibitors and ARBs in preserving cognitive function via hypertension Management: A critical Update	Yasmin S.;Ashique S.;Taj T.;Garg A.;Das J.;Shorog E.;Bhui U.;Pal R.;Selim S.;Panigrahy U.P.;Begum N.;Islam A.;Ansari M.Y.	1850	2025		

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1685	Minerals	Advancing Iron Ore Grade Estimation: A Comparative Study of Machine Learning and Ordinary Kriging	Maniteja M.;Samanta G.;Gebretsadik A.;Tsae N.B.;Rai S.S.;Fissha Y.;Okada N.;Kawamura Y.	15	2025		
1686	Advanced Materials	Amorphous High-entropy Phosphide Nanosheets With Multi-atom Catalytic Sites for Efficient Oxygen Evolution	Li X.;Xie Z.;Roy S.;Gao L.;Liu J.;Zhao B.;Wei R.;Tang B.;Wang H.;Ajayan P.;Tang K.	37	2025		