

**BOOKS 2023-2024**

<b>Department of Chemical Engineering</b>						
<b>S. No.</b>	<b>Book Title</b>	<b>Author(s)/Editor(s)</b>	<b>Publisher</b>	<b>Year</b>	<b>Place</b>	<b>ISBN.</b>
1.	ChE Triad: Lecture Notes Series Chemical Engineering	Nishith Kumar Verma	Ane Books Pvt. Ltd., New Delhi	Jan 2024		9788119662920
<b>Department of Civil Engineering</b>						
2.	A Survey of Machine Learning Techniques in Forestry Applications Using SAR Data”, in: Advances in Scalable and Intelligent Geospatial Analytics	S. S. Durbha, J. Sanyal, L. Yang, S. S. Chaudhari, U. Bhangale, U. Bharambe, K. Kurte	CRC Press	2023	373–398	9781003270092 8
3.	Book title: Cartouche Article title: Observations of Combining Cartographic Generalization Models on Datasets of Different Mapping Agencies	G. Brauen, S. Pyne	Canadian Cartographic Association	2023	Vol 99, 34-39	1183-2045 <a href="https://cca-acc.org/wp2020/wp-content/uploads/Cartouche_099_Mar2023.pdf">https://cca-acc.org/wp2020/wp-content/uploads/Cartouche_099_Mar2023.pdf</a>
<b>Department of Cognitive Science</b>						
4.	Applied	Mukherjee, S., Dutt,	Springer	2023	New	978-981-99-

	Cognitive Science and Technology - Implications of Interactions between Human Cognition and Technology	V., & Srinivasan, N.			Delhi	3965-7
5.	Neurophysiology of Silence - Part A: Empirical Studies	Ben-Soussan, T. D., Glicksohn, J., & Srinivasan, N.	Elsevier	2023	Amsterdam	9780323995511
6.	Neurophysiology of Silence - Part B: Theory & Review	Ben-Soussan, T. D., Glicksohn, J., & Srinivasan, N.	Elsevier	2023	Amsterdam	9780443236136
7.	Insights in Consciousness Research 2021	Raffone, A., Srinivasan, N., Simione, L., Arsiwalla, X., & Kleiner, J.	Frontiers Media SA.	2023	Lausanne	978-2-8325-2443-5
8.	Rising stars in Consciousness Research 2021	Raffone, A., Srinivasan, N., Simione, L., Arsiwalla, X., & Kleiner, J.	Frontiers Media SA.	2023	Lausanne	978-2-8325-3851-7

### Department of Design

9.	Human Factors and Ergonomics: Syllabus for Indian Universities	Kant, V., Bachche,P., & Maikala	Notion Press	2024	New Delhi	ISBN-13: 979-8893222159.
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### Department of Economics

10.	Applied Econometric	Mukherjee, D.	Springer Nature	2024		
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	Analysis Using Cross Section and Panel Data					
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### Department of Electrical Engineering

11.	BSIM-Bulk MOSFET Model for IC Design - Digital, Analog, RF and High- Voltage	Agarwal H.;Gupta C.;Chauhan Y.S.;Hu C.	Woodhead Publishing	2023		978- 0323856775
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### Department of Mechanical Engineering

12.	Handbook of Nanocomposite Supercapacitor Materials IV: Next-generation supercapacitor	Kamal K. Kar	Springer International Publishing	2023	Switzerla nd	eBook ISBN:978-3- 031-23701-0, Hardcover ISBN: 978-3- 031-23700-3
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### Department of Sustainable Energy Engineering

13.	Renewable Energy Generation: A Stufy of Green Energy and Its Sustainable Use in India	Rajeev Jindal and Ashish Garg	National Book Trust, India	2023	New Delhi	978-93-5743- 083-8
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## BOOK CHAPTER 2023-2024

Department of Aerospace Engineering							
S. No.	Book Title	Author(s)	Publisher	Editor	Year	Page numbers	ISBN.
						(start to end)	
1.	Fluid Mechanics and Fluid Power,	Bhavin Patel and	Springer,	Singh, K.M.,	2024	769-781	978-981-

	Volume 1. FMFP 2022. Lecture Notes in Mechanical Engineering	Rajesh Ranjan	Singapore	Dutta, S., Subudhi, S., Singh, N.K.			99-7826-7
2.	"Using Ozone and Hydrogen Peroxide for Manipulating the Velocity Deficits, Detonability, and Flammability Limits of Gaseous Detonations", Proceedings of the National Aerospace Propulsion Conference. Lecture Notes in Mechanical Engineering	Santosh Kumar, D., and Singh, A.V.	Springer, Singapore ,	In: Sivaramakr ishna , G., Kishore Kumar, S., Raghuhand an, B.N. (eds)	2023		pp. 493- 508 <a href="https://doi.org/10.1007/978-19-2378-4_28">https://doi.org/ 10.1007/9 7 8-981 -19-2378- 4_28</a>
3.	"JP-10 Propellant Powered Rotating Detonation Waves for Enhancing the Performance of Hypersonic and Supersonic Missiles," Proceedings of the National Aerospace Propulsion Conference,	Ivin, K., and Singh, A.V.	Springer, Singapore ,	In: Sivaramakr ishna , G., Kishore Kumar, S., Raghuhand an, B.N. (eds)	2023		pp. 387- 413. <a href="https://doi.org/10.1007/978-19-2378-4_23">https://doi.org/ 10.1007/9 7 8-981 -19-2378- 4_23</a>

	Lecture Notes in Mechanical Engineering						
4.	"Combustion Synthesis of Functional Nanoparticles," Proceedings of the National Aerospace Propulsion Conference, Lecture Notes in Mechanical Engineering	Singh, A.V.	Springer, Singapore	In: Sivaramakrishna, G., Kishore Kumar, S., Raghunandan, B.N. (eds)	2023		pp. 467-491 <a href="https://doi.org/10.1007/978-981-19-2378-4_27">https://doi.org/10.1007/978-981-19-2378-4_27</a>

#### Department of Chemical Engineering

5.	Age of MXenes, Volume 1. Fundamentals and Artificial Intelligence: Machine Learning Interventions	BM Abraham, MV Jyothirmai, JK Singh	ACS Publications  [ACS Symposium Series, Vol. 1442]	Durga Madhab Mahapatra & Lakhveer Singh	Sep 15, 2023	169-184	9780841297104
6.	Springer Handbook of Advanced Catalyst Characterization.	Ragamaye Tigiripalli, Vishal Agarwal & Goutam Deo	Springer, Cham	Wachs, I.E., Bañares, M.A.	18 May 2023	111-129	978-3-031-07124-9

## Department of Chemistry

7.	Asking Ligands to Lend a Hand	Sayan M., Noor U Din Reshi, Jitendra K. Bera	AsiaChem		2023	48-55	( <a href="https://doi.org/10.51167/acm00039">https://doi.org/10.51167/acm00039</a> )
8.	Potential Socioeconomic approaches for commercialized antimicrobial applications	Priyanka Jangra, Geetanjali Negi, Anurag Sharma, Nagma Parveen	Elsevier Academic Press	Raju khan and mohd Abubakar Sadique.	2023	365-401	978-0-323-99148-3s
9.	Adv. Inorg. Chem.	D. Sil, F. S. T. Khan and S. P. Rath*	ELSEVIER	Debabrata Chatterjee, Rudi van Eldik	2023	95-184	81
10.	A $\beta$ -oligomers (A $\beta$ Os): A potential therapeutic target for Alzheimer's disease (AD)	Ghosh, S., * Ali, R., Verma, S.*	Int. J. Biol. Macromol.,	Aichun Dong.	2023	124231	239
11.	Tackling the outer membrane: Facilitating compound entry into Gram-negative bacterial pathogens	Saxena, D., Maitra, R., Bormon, R., Czekanska, M., Meiers, M., Titz, A., * Verma, S., * Chopra, S.*	NPJ Antimicrobials and Resistance	Jessica Blair.	2023		( <a href="https://doi.org/10.1038/s44259-023-00016-1">https://doi.org/10.1038/s44259-023-00016-1</a> )
12.	Strategies for gaseous	Ali, R., Sen, S., Nazir, A.,	<i>J. Controlle</i>	<i>J.</i>	2023	365	132-160

	neuromodulator release in chemical neuroscience: Experimental approaches and translational validation	* Verma, S.*	<i>d Rel</i>	<i>Controlled Rel.</i>			
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### Department of Civil Engineering

13.	Transportation and Environmental Geotechnics [Influence of conductive jute geotextile-encased stone column in soft clays.]	Pandey, B.K. Rajesh, S. and Chandra, S.	Springer	Muthukumar, K., Rathod, D., Sujatha, E.R., Muthukumar, M.	2023	41-50	978-981-19-6774-0
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### Department of Cognitive Science

14.	Neurophysiology of Silence - Part A: Empirical Studies [Progress in Brain Research: Volume 277)	Madhira, A., & Srinivasan, N.	Elsevier	Ben-Soussan, T. D., Glicksohn, J., & Srinivasan, N.	2023	1-27	9780323995511
15.	Human–Technology Interfaces: Did ‘I’ do it? Agency, Control, and why it matters	Kumar, D.	Springer, Singapore	Mukherjee, S., Dutt, V., Srinivasan, N.	2023	191-207	978-981-99-3966-4

### Department of Earth Science

16.	New Views of the Moon-2 Reviews in Mineralogy and Geochemistry, Vol.89	Elardo S. M., Carle M. Pieters, <b>Deepak Dhingra</b> , Kerri L. Donaldson Hanna, Timothy D. Glotch, Benjamin T. Greenhagen, Juliane Gross, James W. Head, Bradley L. Jolliff, Rachel L. Klima, Tomáš Magna, Francis M. McCubbin, and Makiko Ohtake	Mineralogical Society of America	Clive R. Neal, Lisa R. Gaddis, Bradley L. Jolliff, Samuel J. Lawrence, Stephen J. Mackwell, Charles K. Shearer, Sarah N. Valencia	2023	293–338	1529-6466
17.	New Views of the Moon-2 Reviews in Mineralogy and Geochemistry, Vol.89	Osinski G. R., H. Jay Melosh, Jeff Andrews-Hanna, David Baker, Brett Denevi, <b>Deepak Dhingra</b> , Rebecca Ghent, Paul Hayne, Patrick Hill, Peter James, Steven Jaret, Brandon Johnson, Thomas Kenkman, David Kring, Prasun Mahanti, David Minton, Catherine	Mineralogical Society of America	Clive R. Neal, Lisa R. Gaddis, Bradley L. Jolliff, Samuel J. Lawrence, Stephen J. Mackwell, Charles K. Shearer, Sarah N. Valencia	2023	339–371	1529-6466



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**Department of Economic Sciences**

18.	The Impact of Global Financial Crisis on the Efficiency of Indian Banks: Evaluation with Data Envelopment Analysis. In Risks and Resilience of Emerging Economies: Essays in Honour of Professor Ajitava Raychaudhuri	Khatai, K. S., Kushwaha, S., & Mukherjee, D.	Singapore : Springer Nature Singapore .			2023	pp. 151-172
19.	Binary and Ordinal Probit Regression: Applications to Public Opinion on Marijuana Legalization in the United States	Mohit Batham, Soudeh Mirghasemi, Manini Ojha, and Mohammad Arshad Rahman	Singapore : Springer Nature Singapore .			2023	33-60

**Department of Electrical Engineering**

20.	EAI/Springer Innovations in Communication and Computing	Bansal S.;Bansal R.K.;Arora K.	Springer Internatio nal Publishin g	Energy Conscious Scheduling for Fault- Tolerant Real-Time Distributed Computing Systems	2023	20-Mar	978- 30311554 20
21.	MIMO Communications - Fundamental Theory, Propagation Channels, and Antenna Systems	Kasturi Vasudevan, Surendra Kota, Lov Kumar and Himanshu Bhusan Mishra	Intechope n.com	New Results on Single User Massive MIMO	2023	06-July	-
22.	Energy Systems in Electrical Engineering	Agarwal U.;Jain N.;Singh S.N.;Kumawat M.	Springer Internatio nal Publishin g	Fundament als of Power System	2023	09-Jan	978- 98199280 02
23.	75th Anniversary of the Transistor	Kumar M.J.;Sahay S.	Wiley – IEEE Press	Junction- less field effect transistors: The first transistor to be conceptuali zed	2023	51-63	978- 13942024 78

24.	Nanoelectronics: Physics, Materials and Devices	Equbal M.S.;Sahay S.	Elsevier Science	Scaling the MOSFET: detrimental short channel effects and mitigation techniques	2023	Nov-37	978-0323918329
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**Department of Humanities and Social Sciences**

25.	“Tamil Sangam Poetry: The Plebeian in the Classical Tradition” in <i>Aesthetics in India: Transitions and Transformations</i> .	Mini Chandran	Orient Blackswan	V. S Sreenath, Anandita Pan and Punnya Rajendran	2023	68 – 88	9789354424021
26.	“English Language Teaching through a Bilingual Parametric Approach”. In <i>Language Teaching in India: Theory and Practice</i>	Sh. Francis Monsang	Taran Publication	I. Amenla Changkija & Rosy Yumnam	2023	81-92	978-81-19295-05-0
27.	“Negation in Select South Asian Languages”. In <i>Variation in South Asian Languages: From Macro to</i>	Rajesh Kumar, Sansuma Brahma, Sh. Francis Monsang & Mayuri Dilip	Springer	Pritha Chandra	2023	45-76	978-981-99-1148-6

	Micro-Differences						
28.	Policy Negotiations, Equity, and Social Justice in EMI Classrooms: A Study of Teachers' Perspectives.	Pinninti, L. R with Santosh Mahapatra	Routledge , London	Giri, R. A., Padwad, A., & Kabir, M. M. N.	2023	269-286	97810033 42373

**Department of Management Sciences**

29.	Integrated Blockchain Architecture for End-to-End Receivables Management of Indian MSMEs, Eds. “Applications of Emerging Technologies and AI/ML Algorithms”	D. Kumar, S. Saurabh, B. V. Phani	Springer Nature	M. K. Tiwari, M. R. Kumar, T. M. Rofin, R. Mitra	2023	205-215	978-981-99-1018-2
30.	Crisis Management and Innovation in Indian Manufacturing MSMEs Amidst COVID-19 Pandemic, Eds. “Entrepreneurship Research: Developing New and Emerging Patterns in the Post	D. Kumar, S. Saurabh, B. V. Phani	Springer Nature	V. Ratten	2023	111-132	978-981-99-4451-4

	COVID-19 Pandemic Era”						
31.	Blockchain and Entrepreneurship, Eds. “The International Encyclopedia of Business Management”	D. Kumar, S. Saurabh, B. V. Phani, N. Chilamkurti, V. Ratten	Elsevier		2023		
32.	Mapping Information Systems Flexibility with Organization’s Manufacturing Strategy, Eds. “From Technology Innovation to Creating Startups - Global Trends in Ecosystem Development and Management”	S. Dey, R. R. K. Sharma	Springer Nature	S. Patnaik, P. Vincenzo, K. Tajeddini, V. Jain	2023	79-108	978-3- 031- 40324-8
33.	Renewable energy sources powering India: the growing role of solar and wind energy, Eds. “Renewable Energy Generation a Study of Green Energy and LTS Sustainable Use in	M. Prasad, A. Bhowmik		R. Jindal	2023	6-27	93-5743- 083-0

	India”						
34.	Economic growth and social justice: A study with reference to agricultural households in Bihar, Eds. “Development with justice: The Bihar experience”	S. Mukherjee, K. Nanduri	Routledge	S. K. Bhaumik	2024	196-205	9781032626406
35.	Consumer Investment Behavior Edward Elgar Publishing, Eds. “A Research Agenda for Consumer Financial Behavior”	A. Dhanagare, S. Saurabh, P. Roy	Edward Elgar Publishing Ltd.	J. J. Xiao, S. Kumar	2023	183	978-1-80392-264-5

**Department of Materials Science and Engineering**

36.	Proceedings of the International Conference on Metallurgical Engineering and Centenary Celebration METCENT-2023, 26–28 October, Varanasi, India	Soumya Bandyopadhyay, Somnath Bhowmick, Rajdip Mukherjee	Springer Nature Singapore Pte Ltd.		2023	75-82	978-981-99-6862-6
37.	Proceedings of the International	Albert Linda, Md Faiz Akhtar,	Springer Nature		2023	83-92	978-981-99-6862-6

	Conference on Metallurgical Engineering and Centenary Celebration METCENT-2023, 26–28 October, Varanasi, India	Somnath Bhowmick	Singapore Pte Ltd.				
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**Department of Mathematics and Statistics**

38.	Advanced Mathematical Techniques Applicable in Computational and Intelligent Systems	Subhra Sankar Dhar, Shalabh, Prashant Jha, and Aranyak Acharyya, Taylor's & Francis	CRC Press	Sandeep Singh, Aliakbar Montazer Haghighi, and Sandeep Dalal	2023		
39.	Statistical Modeling and Applications on Real-Time Problems	Shalabh, Subhra Sankar Dhar, Chitradeepa Chakroborty and Prashant Jha, Taylor's & Francis	CRC Press	Chandra Shekhar and Raghaw Raman Sinha	2023		
40.	Recent Advances in G Families of Probability Distributions	Shalabh and Subhra Sankar Dhar, Taylor's & Francis	CRC Press	Mir Masoom Al, Irfan Ali, Haitham M. Youso and Mohamed	2023		

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41.	Statistical Modeling Using Bayesian Latent Gaussian Models	Arnab Hazra, Raphaël Huser, and Árni V. Jóhannesson	Springer	Birgir Hrafnkelsson	2023	219-251	978-3-031-39790-5
42.	Symmetric Geometric Skew normal regression model	D. Kundu, Deepak Prajapati	Springer Handbook of Engineering Statistics	Hoang Pham, Springer	2023	pp 87 - 103	
43.	Bivariate distributions with singular components	D. Kundu	Springer Handbook of Engineering Statistics,	Hoang Pham, Springer	2023	pp 733 - 761	
44.	Optimization and Computing using Intelligent Data-Driven Approaches for Decision-Making. Volume	Subhra Sankar Dhar and Shalabh	CRC Press	Irfan Ali, Umar Muhammad Modibbo, Asaju La'aro Bolaji, Harish Garg	2024 In press		
45.	Recent Advances in Simulation and Modelling	Shalabh, and Subhra Sankar Dhar,	CRC Press	Mohd. Arshad, Mukti Khetan, Ashok Kumar	2024 In press		



				Pathak, Fozia Homa			
46.	Statistical Outliers and Related Topics	Shalabh, Subhra Sankar Dhar, and Gaurav Garg:	CRC Press	Mir Masoom Ali, Irfan Ali, and Haitham M. Yousof	2024 In press		
47.	Recent Advances in Simulation and Modelling	Anoop Chaturvedi and Shalabh, Taylor's & Francis	CRC Press	Mohd. Arshad, Mukti Khetan, Ashok Kumar Pathak, Fozia Homa	2024 In press		

### Department of Mechanical Engineering

48.	Handbook of Nanocomposite Supercapacitor Materials IV: Next-generation supercapacitor	Kamal K. Kar	Springer International Publishing	2023	Switzerland	eBook ISBN:978-3-031-23701-0, Hardcover	ISBN: 978-3-031-23700-3
49.	Recycling of supercapacitor materials	Harish Trivedi and Kamal K. Kar	Springer Nature	Kamal K Kar	2023	393-411	eBook ISBN:978-3-031-23701-0, Hardcover ISBN: 978-3-031-

							23700-3
50.	Optical revolution with sustainable energy framework	Ravi Nigam and Kamal K. Kar	Springer Nature	Kamal K Kar	2023	379-391	eBook ISBN:978-3-031-23701-0, Hardcover ISBN: 978-3-031-23700-3
51.	Self-healing supercapacitors	Kapil Dev Verma, and Kamal K. Kar	Springer Nature	Kamal K Kar	2023	357-378	eBook ISBN:978-3-031-23701-0, Hardcover ISBN: 978-3-031-23700-3
52.	Shape memory supercapacitors	Mukesh Kumar, Manas K. Ghorai, and Kamal K. Kar	Springer Nature	Kamal K Kar	2023	331-355	eBook ISBN:978-3-031-23701-0, Hardcover ISBN: 978-3-031-23700-3
53.	High mass loading supercapacitors	Mukesh Kumar, and Kamal K. Kar	Springer Nature	Kamal K Kar	2023	225-245	eBook ISBN:978-3-031-23701-0, Hardcover ISBN: 978-3-031-

							23700-3
54.	Binder free supercapacitors	Kapil Dev Verma, and Kamal K. Kar	Springer Nature	Kamal K Kar	2023	195-223	eBook ISBN:978-3-031-23701-0, Hardcover ISBN: 978-3-031-23700-3
55.	Laser as a tool for fabrication of supercapacitor electrodes	Saheli Bera, Kapil Dev Verma, and Kamal K. Kar	Springer Nature	Kamal K Kar	2023	89-122	eBook ISBN:978-3-031-23701-0, Hardcover ISBN: 978-3-031-23700-3
56.	Traditional electrode materials for supercapacitor applications	Saheli Bera, Kapil Dev Verma, and Kamal K. Kar	Springer Nature	Kamal K Kar	2023	19-64	eBook ISBN:978-3-031-23701-0, Hardcover ISBN: 978-3-031-23700-3
57.		Transition of the Boundary Layer Subjected to Freestream Turbulence, <i>Fluid Mechanics and Fluid Power, Volume 2</i>	Springer, Singapore	Singh K.M., Dutta S., Subudhi S. and Singh N.K.	2024	231–239	978-981-99-5751-4

58.	Control of Flow Separation Using Hemispherical Protuberance on the Leading Edge, <i>Fluid Mechanics and Fluid Power, Volume 2</i>	Singh P., Kumar R. and <b>Sarkar S.</b>	Springer, Singapore	Singh K.M., Dutta S., Subudhi S. and Singh N.K.	2024	489–499	978-981-99-5751-4
59.	The Effect of Riblet Shapes on Flow Characteristics, <i>Fluid Mechanics and Fluid Power, Volume 2</i>	Jain I., Wajih I. and <b>Sarkar S.</b>	Springer, Singapore	Singh K.M., Dutta S., Subudhi S. and Singh N.K.	2024	631–640	978-981-99-5751-4
60.	CFD Analysis of Secondary Flow and Particle transportation in Human Lungs, <i>Fluid Mechanics and Fluid Power, Vol. 1</i>	Jain I. and <b>Sarkar S.</b>	Springer, Singapore	Bhattacharyya S. and Chattopadhyay H.	2023	185–188	978-981-19-7054-2
61.	Advances in Heat Transfer	Gyanesh Kumar and Umesh Madanan	Elsevier	John Patrick Abraham, John M. Gorman, and Wolodymyr J. Minkowycz	2023	435-582	978-0-443-19312-5

62.	Lecture Notes in Mechanical Engineering (LNME)	Parvez Alam and Umesh Madanan	Springer Nature	Sudev Das, Narasimha Mangadoddy, and Jaap Hoffmann	2024	577-588	978-981-99-5989-1
63.	Lecture Notes in Mechanical Engineering (LNME)	Niloy Sen, Aruna S. Pisharody, and Umesh Madanan	Springer Nature	Sudev Das, Narasimha Mangadoddy, and Jaap Hoffmann	2024	525-536	978-981-99-5989-1

#### CONFERENCE 2023-2024

Department of Aerospace Engineering							
S. No.	Conference Name	Conference Title	Author(s)	Year	Volume	Page numbers (start to end)	Location
1.	Proceedings of 9th symposium on applied aerodynamics and design of aerospace vehicles (SAROD)	Spatio-temporal evolution of SWBLI in hypersonic double ramp flow using high-order LES	Aggarwal, A., & Ranjan, R.	2023			DRDO, Hyderabad
2.	14th Asian Computational Fluid Dynamics Conference	Computational study of supersonic flow past compression and expansion corners	Chauhan, J., & Ranjan, R.	2023	ACFD20 23	685-688	HAL, Bengaluru

3.	14th Asian Computational Fluid Dynamics Conference	Direct numerical simulation of flow over an high-pressure turbine blade of a small experimental turbofan engine	Patel, K. S., Maruthi, N. H., Ranjan, R., Deshpande, S. M., & Narasimha, R.	2023	ACFD2023	522-525	HAL, Bengaluru
4.	14th Asian Computational Fluid Dynamics Conference	Multi-GPU acceleration and optimization of a high-order curvilinear CFD code	Phirke, Y., Giri, H., Modani, M., & Ranjan, R.	2023	ACFD2023	714-717	HAL, Bengaluru
5.	14th Asian Computational Fluid Dynamics Conference	Numerical investigation of separation control in low- pressure turbines using dimpled surfaces	Sharma, K., & Ranjan, R.	2023	ACFD2023	681-684	HAL, Bengaluru
6.	10th international and 50th national conference on fluid mechanics and fluid power (FMFP)	Evaluation of physics-informed machine learning approach for computation of fluid flows	Kumar, P., & Ranjan, R.	2023			IIT Jodhpur
7.	15th international symposium on experimental and computational aerothermodynamics of internal flows	Relaminarization effects on SWTBLI due to upstream expansion	Prabtani, K. M., & Ranjan, R.	2023	ISAI15	305-309	IIT Madras
8.	CI's 40th	Experimental	Srivastava,	2024			Milan, Italy.

	International Symposium – Emphasizing Energy Transition,	investigation of flame morphology and instabilities in turbulent wind-driven flames	A., Sandeep, B.V., and Singh, A.V.,				
9.	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., and Singh, A.V.,	2024			Milan, Italy
10.	The 2nd International Conference on Fluid, Thermal and Energy Systems	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., and Singh, A.V	2024			National Institute of Technoloy Calicut, Kerala, India.
11.	The 2nd International Conference on Fluid, Thermal and Energy Systems	Local Mass Burning Rate Correlation for Turbulent Boundary Layer Diffusion Flames Stabilized over a Condensed Fuel Surface	Srivastava, A., and Singh, A.V	2024			National Institute of Technology Calicut, Kerala, India
12.	The 2nd International Conference on Fluid, Thermal and Energy Systems	Distribution of Local Heat Fluxes in Turbulent Wind-Driven Fires	Sandeep, B.V., Srivastava, A., and Singh, A.V	2024			National Institute of Technoloy Calicut, Kerala,

							India.
13.	The 2nd International Conference on Fluid, Thermal and Energy Systems	Investigating the Chemical Length Scales of Fuel-Sensitized Hydrogen-air Detonations	Singh, R.K., Dahake, A., and Singh, A.V	2024			National Institute of Technology Calicut, Kerala, India
14.	The 2nd International Conference on Fluid, Thermal and Energy Systems	Assessment of Detonation Parameters of H <sub>2</sub> -O <sub>2</sub> /air Detonations in the Combined Presence of Inert Diluents and Ignition Promoters	Singh, R.K., Dahake, A., and Singh, A.V	2024			National Institute of Technoloy Calicut, Kerala, India
15.	The 2nd International Conference on Fluid, Thermal and Energy Systems	Investigating Flame Streak Behavior in Turbulent Wind-Driven Fires	Srivastava, A., and Singh, A.V	2024			National Institute of Technoloy Calicut, Kerala, India
16.	The 2nd International Conference on Fluid, Thermal and Energy Systems	Detonation Cell Size Correlation for Hydrogen- Oxygen Mixtures	Dahake, A., Singh, R.K., and Singh, A.V	2024			National Institute of Technoloy Calicut, Kerala, India
17.	Proceedings of the International Conference on Advances in Aerospace and Energy Systems	Investigating Flame Streak Behavior in Turbulent Wind-Driven Fires	Srivastava, A., and Singh, A.V	2024			Liquid Propulsion Systems Centre (ISRO), Thiruvanan



							thapuram, Kerala, India
18.	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., and Singh, A.V	2024			Liquid Propulsion Systems Centre (ISRO), Thiruvananthapuram, Kerala, India
19.	Proceedings of the International Conference on Advances in Aerospace and Energy System	Soot Emission Prediction of Hydrocarbon Fuels using Machine Learning and Deep Learning Algorithms	Goklani, M., Thaviti, S.R., and Singh, A.V	2024			Liquid Propulsion Systems Centre (ISRO), Thiruvananthapuram, Kerala, India
20.	14th International Symposium on Fire Safety Science (the 14th IAFSS Symposium	Heat transfer in wind-driven fires stabilized under a mixed- convective turbulent flow environment	Srivastava, A. and Singh, A.V	2023			Tsukuba, Japan
21.	29th International Colloquium on the Dynamics of Explosions and Reactive Systems,	Heat transfer characteristics of turbulent boundary layer flames stabilized under a mixed-convective	Srivastava, A. and Singh, A.V	2023			Seoul, Korea

		environment					
22.	29th International Colloquium on the Dynamics of Explosions and Reactive Systems,	Local burning behavior of wind-driven flames under the influence of mixed-convective turbulent flow conditions	Srivastava, A. and Singh, A.V	2023			Seoul, Korea
23.	29th International Colloquium on the Dynamics of Explosions and Reactive Systems,	Detonation Inhibition using Retardant Weight Analysis for Halogenated Compounds	Singh, R. K., Dahake, A. and Singh, A.V	2023			Seoul, Korea
24.	29th International Colloquium on the Dynamics of Explosions and Reactive Systems,	Effect of Initial Conditions on the Inhibition Process of H <sub>2</sub> - O <sub>2</sub> /air Detonations Using CF <sub>3</sub> I, CO <sub>2</sub> , and H <sub>2</sub> O	Dahake, A., Singh, R. K., and Singh, A.V	2023			Seoul, Korea
25.	AIAA 2023-3107, 25th AIAA International Space Planes and Hypersonic Systems and Technologies Conference	Effect of Ozone and Inert Diluents on RP1/RP2 – O <sub>2</sub> Gaseous Detonations for Applications in Detonation- based Rocket Engines	Naraboina, S., Singh, R. K., Dahake, A. and Singh, A.V	2023			Bengaluru, Karnataka, India
26.	AIAA 2023-3014, 25th AIAA International Space Planes and	Nitrogen Oxide Formation Pathways in Gaseous	Dahake, A., Singh, R. K., and Singh, A.V	2023			Bengaluru, Karnataka, India

	Hypersonic Systems and Technologies Conference,	Detonations					
27.	AIAA 2023-3106, 25th AIAA International Space Planes and Hypersonic Systems and Technologies Conference	Addition of Hydrogen to Enhance Ignition Characteristics and Performance of a Rocket Propellant for Application in Detonation-based Engines	Singh, R. K., Dahake, A. and Singh, A.V	2023			Bengaluru, Karnataka,
28.	AIAA 2023-3103, 25th AIAA International Space Planes and Hypersonic Systems and Technologies Conference	Enhancing the Detonability of H <sub>2</sub> -O <sub>2</sub> /Air Mixtures by Using O <sub>3</sub> and H <sub>2</sub> O <sub>2</sub> for Application in Detonation-based Engines	Singh, R. K., Dahake, A. and Singh, A.V	2023			Bengaluru, Karnataka, India
29.	AIP Conference Proceedings	Local Burning Behavior of Wind-Driven Flames Under Turbulent Airflow Conditions	Singh, A., and Singh, A.V	2023			
30.	10th International and 50th National Conference on Fluid Mechanics and Fluid Power	Effect of High Reduced Frequency on Lift overshoot due to Dynamic Stall Vortex	Shweta Singh, Kamal Poddar, A. C. Mandal	2023			IIT Jodhpur
31.	10th International and 50th National Conference on Fluid	2D Wake Transition of a NACA 0012	Harish Wathore, Kamal	2023			IIT Jodhpur

	Mechanics and Fluid Power	Airfoil in Soap Film	Poddar, Alakesh Chandra Mandal				
32.	AIAA Scitech 2023 Forum	2023 The role of coherent structures inside a subsonic jet nozzle on the radiated sound	Vempati, C., Hemchandra, S. & Samanta, A	2023			National Harbor, Maryland, USA
33.	15th International Symposium on Experimental & Computational Aerothermodynamics of Internal Flows (ISAIF)	2023 Characterization of an anechoic chamber for conducting aeroacoustic experiments at IIT Kanpur	Singh, A., Perumal, A. K. & Samanta, A	2023			Chennai, India
34.	10th International and 50th National Conference on Fluid Mechanics and Fluid Power (FMFP)	2023 Flow-field and acoustic characterization of actively controlled jets via steady fluidic injection.	Singh, A., Perumal, A. K. & Samanta, A	2023			Jodhpur, India
35.	AIAA Aviation and Aeronautics Forum and Exposition	Parametric Study on the Thrust Vectoring of a Supersonic Jet Manipulated by Fluidic Injection	Anwesh Kumar Yadav, Vignesh R, Arun Kumar Perumal	2023			
36.	6th Symposium on Fluid-Structure-Sound Interactions	Control of Turbulent Jet by Hybrid-AI System	Wu Zhi, Arun Kumar	2023			

	and Control	and Scaling of Control Parameters	Perumal, Dewei, F. W & Zhou Y				
37.	6th Symposium on Fluid-Structure-Sound Interactions and Control	Jet manipulation using anti-phased fluidic injection	Suzzana Naroem & Arun Kumar Perumal	2023			
38.	6th Symposium on Fluid-Structure-Sound Interactions and Control	Figure of Merit for Jet Mixing of a Supersonic Jet Manipulated by Steady Fluidic Injection	Arun Kumar Perumal	2023			
39.	15th International Symposium on Experimental and Computational Aerothermodynamics of Internal Flows.	Characterisation of the Anechoic Chamber for Aeroacoustic Experiments at IITK	Ambica Singh, Arun Kumar Perumal & Arnab Samanta	2023			
40.	The 10th International and 50th National Conference on Fluid Mechanics and Fluid Power.	Flow-field and acoustic characterization of actively controlled jets via steady fluidic injection	Ambica Singh, Arun Kumar Perumal & Arnab Samanta	2023			
41.	The 10th International and 50th National Conference on Fluid	Noise reduction in supersonic rectangular jets	Vignesh R, Revathy RK, A. Nageswara	2023			

	Mechanics and Fluid Power.		Rao, & Arun Kumar Perumal				
42.	Proceedings of the 10th International and 50th National Conference on Fluid Mechanics and Fluid Power (FMFP	Role of Gas Models on Aerothermodynamic Heating over Double-Wedge in Hypersonic Stream	A. Ray, A. De	2023			FMFP2023 -AED-328
43.	Proceedings of the 10th International and 50th National Conference on Fluid Mechanics and Fluid Power (FMFP),	Hydrokinetic Energy Utilization Assessment on Deployment of Circular Deflector for Savonius Turbine	O. Singh, G. Saini, A. De	2023			FMFP2023 -TMC-183
44.	Proceedings of the 10th International and 50th National Conference on Fluid Mechanics and Fluid Power (FMFP),	Numerical Modeling of Droplet Behavior in Fluid Flow: Insights into Collision Efficiency through Stokes Number	P. Das, R. Ganguly, A. De	2023			FMFP2023 -MPF-182
45.	14th Asian Computational Fluid Dynamics Conference (ACFD 2023)	DNS of Shock Wave Boundary Layer Interaction for Multiple Deflection Angles and Mach Numbers	S. Rao B, A. Ray, A. De	2023	55		
46.	14th Asian Computational Fluid	Droplet Statistical Analysis for a	T. Johny, Z. Alam, B.	2023	54		

	Dynamics Conference (ACFD 2023),	Liquid-Jet-in-Crossflow Using VOF-LPT Coupled Framework	Bhatia, A. De				
47.	14th Asian Computational Fluid Dynamics Conference (ACFD 2023),	Performance Analysis of Wind Turbine Clusters	Dinesh G. M. Verma, A. De	2023	56		
48.	ICNAAM	Assessment of Numerical Schemes for flow over Hypersonic Double Cone	A. Ray, A. De	2023	1824		
49.	ICNAAM	Investigation of The Effect of Corner Radius on Convective Heating of Large Angle Blunt Cone	S. Bhaduri, A. De, M. I. Sugarno, S. L. N. Desikan	2023	1804		
50.	25th AIAA International Space Planes and Hypersonic Systems and Technologies Conference,	Performance of the Hypersonic Intake in Varied Free-Stream Conditions	A. Ray, A. De	2023	3067		
51.	25th AIAA International Space Planes and Hypersonic Systems and Technologies Conference,	Effects of enthalpy on convective Heating of a large angle blunt cone in Martian atmosphere Conditions	S. Bhaduri, A. De, M. I. Sugarno, S. L. N. Desikan	2023	3068		

52.	AIAA SCITECH 2023 Forum,	Shock Interference Patterns on Double-Wedge Configurations for Pure CO2 Flows	A. Ray, A. De	2023	2115		
53.	AIAA SCITECH 2023 Forum,	Enhancing Energy Harvesting from 2-DOF Flow-Induced Vibrations of a Circular Cylinder via Means of a Slit Offset	M. Verma, A. De	2023	1721		
54.	14th Asian Computational Fluid Dynamics Conference	An exploration on the application of shallow decoder for flow reconstruction using limited measurements	Farhan Ahsan Khan, Navrose	2023		244	
55.	14th Asian Computational Fluid Dynamics Conference	Evolution of a vortex pair subjected to tailored streamwise periodic disturbance	Mohd. Suhail Naim, Navrose	2023		261	
56.	FORUM 2024- Vertical Flight Society's 80th Annual Forum & Technology Display	Preliminary Results from Dynamic Testing of a Pericyclic Drive System	McGovern, J.E., Smith, E.C., Bill R.C., DeSmidt, H.A., Mathur, T.D., Stevens, M.A.,	2024	-	-	Montreal, Quebec, Canada



			Mistingas, C.M., Schroen, E.S.				
57.	FORUM 2023 - Vertical Flight Society's 79th Annual Forum and Technology Display	Development of a coupled torsional dynamics and gear contact model to predict peak loads in a tiltrotor drive system	Albuck, N., Mathur, T.D., Haidar, A.M.	2023	-	-	West Palm Beach, Florida, USA
58.	AIAA Aviation	Evolution of a Synthetic Jet with Triangular Orifice Geometry at Varying Skew Angles in a Laminar Boundary Layer	TK Guha, M Amitay	2023	4437		
59.	Lecture Notes in Mechanical Engineering. DOI:10.1007/978- 981-99-5752-1_60	Experiments on Compressible Vortex Ring Interaction with a Cone Mounted on a Flat Plate. Fluid Mechanics and Fluid Power	Nuvvula, P.K., Yadav, A., Karn, P.K., Rajan, R., Mohd, J., Das, D.	2024	2	DOI:10.1 007/978- 981-99- 5752- 1_60	
60.	Lecture Notes in Mechanical Engineering	Flow Falling from Slit and Circular Hole Over a Horizontal Cylinder. Fluid Mechanics and Fluid Power,	Rajan, R., Akherya, B.P., Mohd, J., Poddar, D., Wadhwa G., Saha,	2024		DOI: 10.1007/ 978-981- 99-5755- 2_28.	Springer, Singapore

		Volume	S., Das, D				
61.	Lecture Notes in Mechanical Engineering.	Development of Tomographic Background-Oriented Schlieren Technique for 3D Density Measurement in Buoyant Plumes. Fluid Mechanics and Fluid Power	Mohd, J., Das, D	2024	6	DOI:10.1007/978-981-99-5755-2_5	
62.	Lecture Notes in Mechanical Engineering.	Aerodynamics of Flapping Fin Inspired from Manta Ray. Fluid Mechanics and Fluid Power	Poddar, D., Kumar, N., Mohd, J., Das, D	2024	2	DOI:10.1007/978-981-99-5752-1_42	
63.	Bulletin of the American Physical Society	Laminar liquid jet impinging on a vial creates dancing fluid sheets called water bells	Mohd, J., Yadav, A. and Das, D.	2023			
64.	Bulletin of the American Physical Society	Regime transitions in a laminar film flowing over a cylinder	Wadhwa, G., Tambe, A., Mohd, J., Poddar, D., Rajan, R., Mandal, G., Kadam, P., Saha, S. and Das, D	2023			
65.	Proceedings of the	Experimental	Majid,	2023		2435- 2443	DOI:10.3850

	IAHR World Congress	Investigation of Pressure-Flow Scour using Particel Image velocitometry	S.A., Tripathi S., Das D				/978-90-833476-1-5_iahr40wc-p0326-cd
66.	International Conference on Intelligent Unmanned Systems	Bio-inspired perforated flapping wings.	Poddar, D., Gangwar, A., Das, D.	2023			Adelaide, Australia
67.	34th International Symposium on Shock Waves,	Compressible vortex ring interaction with perforated cone mounted on a flat plate	Yadav, A., Nuvvula, P.K., Karn, P.K., Murugan, T., Das D	2023			Daegu, South Korea
68.	10th International and 50th National Conference on Fluid Mechanics and Fluid Power,	Shock mitigation using a wire mesh placed outside the shock tube	Rajan, Rijin, Sahoo, Asit Kumar, Mohd, Javed, Das, Debopam, Poddar, Kamal	2023			IIT Jodhpur, India.
69.	10th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics	Interaction of Incident shock and compressible vortex ring with a grooved cone mounted on a flat plate with a coaxial hole.	Yadav, A., Karn, P.K., Das, D	2024			Rhodes Island, Greece
70.	1st European Fluid	Blast wave	Rajan, R.,	2024			Aachen,

	Dynamics Conference (EFDC1)	attenuation in wire meshes: the dissipation mechanisms.	Mohd, J., Poddar, K., and Das. D				Germany
71.	1st European Fluid Dynamics Conference (EFDC1)	A novel mechanism to convert the fluttering motion of flexible foil into rotary motion to harvest energy from fluid flow	Kumar, A., Das, D.	2024			Aachen, Germany
72.	1st European Fluid Dynamics Conference (EFDC1)	Puffing Water Bells Generated by Liquid Jet Impingement on a Vial: A Novel Experimental Approach.	Mohd, J., Yadav, A., and Das, D	2024			Aachen, Germany.

Department of Biological Sciences & Bioengineering

73.	EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERSarrow_drop_up	A key GPCR phosphorylation motif discovered in arrestin2•CCR5 phosphopeptide complexes	Shukla AK	2023	2	Issue SUPPL 1 Page S101-S101 Supplement-1 Special Issue-SI Meeting Abstract P-141	Stockholm, SWEDEN
74.	Meeting of the European-Chapter of the Tissue-Engineering-and-Regenerative-Medicine-	Osteochondral regeneration using multi-layered cryogel and chondrocyte-derived	Ashok Kumar	2023	29	Issue 13-14 Meeting Abstract PP-169	Manchester, ENGLAND

	International-Society (TERMIS)	extracellular vesicles in a goat model					
75.	Meeting of the European-Chapter of the Tissue-Engineering-and-Regenerative-Medicine-International-Society (TERMIS)	Ameliorating impaired cardiac function in myocardial infarction using exosome-loaded gallic-acid-containing polyurethane scaffolds coated with decellularized extracellular matrix	Ashok Kumar	2023	Volume 29	Issue 13-14 Meeting Abstract PP-208	Manchester, ENGLAND
76.	InSPE Asia Pacific Unconventional Resources Conference and Exhibition	A Novel Integration of Advanced Acoustic Geomechanics and Reservoir Micro Fracturing Techniques for Refined Stress Characterization in Carbon Capture and Storage Formations. (p. D012S002R002). SPE.	Kumar A, Wydiabhak ti TB, Singh A, Hati S, Das B, Thorat A	2023 Nov 12			
77.	InOffshore Technology Conference Brasil	. A Fit-For-Purpose Workflow for In-Situ Stress Characterization in Carbon Capture	Wydiabhak ti TB, Hati S, Das B, Kumar A, Thorat A,	2023 Oct 17			Brasil

		and Storage Formations. (p. D021S027R006). OTC.	Singh A, Sherratt PJ				
78.	InSeminars in Cancer Biology Academic Press.	Transcription networks rewire gene repertoire to coordinate cellular reprogramming in prostate cancer.	Manzar N, Ganguly P, Khan UK, Ateeq B.	2023 Feb 1	Vol. 89,	76-91).	
79.	65th Annual Meeting of the American-Society-of-Hematology (ASH)	Intraarticular Delivery of AAV5-Mir-125a-5p Regulates Key Molecular Mediators of Hemophilic Arthropathy	Jayandhara n G. Rao	2023	142	Supplement 1 DOI 10.1182/blood-2023-177907	San Diego, CA
80.	In2023 10th International Conference on Signal Processing and Integrated Networks (SPIN)	Using Object Detection to Select Grasp Type & Control Functional Electrical Stimulation for Hand Rehabilitation. IEEE.	Bhagat NA, Ruppa M	2023 Mar 23		(pp. 538-542).	
81.	GOLDSCHMIDT.	Potential Role of Indigenous Bacteria in Controlling Arsenic Concentration in Mixed-Oxic State Groundwater. InGoldschmidt	Verma A, Matheshwaran S, Singh A	2023 Jul 11			

		2023 Conference.					
Department of Civil Engineering							
82.	7 <sup>th</sup> Conference of Transportation Research Group of India (CTRG), December 17-20, 2023	Prediction of aggregate gradation from two-dimensional (2-D) image of aggregates- a simple approach	Sneha Mandal, Ranja Bandyopadhyaya and Animesh Das	2023	<i>In press</i>	<i>In press</i>	Surat, India
83.	8 <sup>th</sup> International Conference Bituminous Mixtures and Pavements, June 12-14, 2024	Observations on bitumen globules during breaking of emulsion on aggregate surface	Sneha Mandal and Animesh Das	2024	<i>In press</i>	<i>In press</i>	Thessaloniki, Greece
84.	ISAP 2024 International Conference on Asphalt Pavement, June 2-7, 2024	Incorporation of loading sequence in computation of non-linear cumulative fatigue damage for asphalt pavement design	Abhinash Dev Pandey and Animesh Das	2024	<i>In press</i>	<i>In press</i>	Montreal, Canada
85.	Indian Geotechnical Conference IGC 2023 -Geotechnical Advances in Sustainable Infrastructure Development and Risk Reduction	Dynamic Analysis of Torsionally Loaded Pile Foundations	Bipin K. Gupta	2023	-	01-Oct	Roorkee, India
86.	Indian Aerosol Science and Technology Association (IASTA), conference,	Ambient air quality Monitoring over Rural areas using Indigenous Technology (AMRIT)	S. N. Tripathi, Anil Kumar, Nimit Godhani,	2023		359-360	Navi Mumbai

	December 12-14, 2023		Navdeep Agrawal, P.C. Anandh, Ananya Sen, Vipul Arora Purushottam Kar and Piyush Rai,				
87.	Indian Aerosol Science and Technology Association (IASTA), conference, December 12-14, 2023	Simulations of PM2.5 with WRF-CAMx and Estimating Air quality Social Impact Using Regression analysis over India (EASIUR-India)	T.V. Ramesh Reddy, S.N. Tripathi, Peter Adams and Arora Urvashi	2023		447-448	Navi Mumbai
88.	Indian Aerosol Science and Technology Association (IASTA), conference, December 12-14, 2023	Resuspension dynamics of thermophoretically deposited particles via shockwave interaction”,	Manish Kumar, Sidyant Kumar, Sudama Bhati, Sanjay Kumar and S.N. Tripathi	2023		396-397	Navi Mumbai
89.	Indian Aerosol Science and Technology Association (IASTA), conference, December 12-14,	Shock induced resuspension of poly-layered particles	Manish Kumar, Sidyant Kumar, Sudama Bhati, Sanjay	2023		464-465	Navi Mumbai



	2023		Kumar and S.N. Tripathi				
90.	Indian Aerosol Science and Technology Association (IASTA), conference, December 12-14, 2023	Variation of Elemental Source Characterisation and composition in Delhi capital region from pre burning to post burning period	Ashutosh Shukla, Akanksha, Mayank Kumar, Vikram Singh, Dilip Ganguly, Suresh Tiwari, Atul Shrivastava and S.N. Tripathi	2023		164- 165	Navi Mumbai
91.	7th Joint International Conference on Data Science & Management of Data (11th ACM IKDD CODS and 29th COMAD) (CODS-COMAD 2024), January 04-07, 2024	Robust Shape-regularized Nonnegative Matrix Factorization for Real-time Source Apportionment	Manjyot Singh Nanra, Sharanya Saha, Ashutosh Kumar Shukla, Sachchida Nand Tripathi, and Purushottam Kar.	2024		192-201	Bangalore
92.	World Environmental and Water Resources Congress 2024	Calculation of Water Age Using Electrical Simulators	Balireddy, R., Chakravorty, A.,	2024		1276 - 1284	Milwaukee, Wisconsin, May 19-22, 2024

			Kuiry, S. N., Abhijith, G. R., and Ostfeld, A.				
93.	33 <sup>rd</sup> Goldschmidt Conference	Effect of magnesium on fluoride removal from groundwater using calcium phosphate-based amendments.	Mohapatra, A.K. and Singh, A.	2023	6h		Lyon, France
94.	33 <sup>rd</sup> Goldschmidt Conference	Potential role of indigenous bacteria in controlling arsenic concentration in mixed-oxic state groundwater.	Verma, A., Matheshwaran, S. and Singh, A.	2023	11c		Lyon, France
95.	33 <sup>rd</sup> Goldschmidt Conference	Investigation of uranium (VI) uptake by rhodochrosite and its effect on uranium mobility in sediments.	Sujathan, S., Sharma, S., and Singh, A.	2023	11e		Lyon, France
96.	265 <sup>th</sup> American Chemical Society (ACS) National Meeting	Uranium at mineral-water interfaces: research with and inspired by Janet Hering.	Giammar D.E., Catalano, J.G., Satpathy A., and Singh A.	2023			San Francisco, USA
97.	National Environmental Conference (NEC)	Extent of uranium uptake by rhodochrosite in	Sharma, S., Sujathan, S., and	2024	Paper 199	17	IIT Bombay, Mumbai

		synthetic groundwater.	Singh, A.				
98.	<i>National Environmental Conference (NEC)</i>	The environmental impact of wastewater reuse <i>in</i> an irrigation scheme.	Upadhyay, M.K., Bhatt, M., Gemoets, J., Campling, P., Rajvanshi, K., and Singh, A.	2024	Paper 221	72	IIT Bombay, Mumbai
99.	<i>National Environmental Conference (NEC)</i>	Fluoride removal from groundwater using low-cost materials.	<i>Prakash, M., Mohapatra, A.K., and Singh, A.</i>	2024	Paper 223	41	IIT Bombay, Mumbai
100.	Engineering for Sustainable Development, Report	Water transport properties and Life Cycle Assessment of low-grade fly ash based cementitious materials, <a href="http://dx.doi.org/10.2749/newdelhi.2023.0303">http://dx.doi.org/10.2749/newdelhi.2023.0303</a>	Kumar M., & Harish K.V.	Sep. 2023	-	303-312	IABSE Congress, New Delhi
101.	Engineering for Sustainable Development, Report	Image analysis of concrete surface for investigating the influence of aggregate distribution and load-induced damage on the chloride	Mishra P.; Sarfaraz A.; Misra S.; Harish K.V.	Sep. 2023	-	1364–1376	IABSE Congress, New Delhi

		permeability of concrete measured using RCPT (ASTM C1202), <a href="https://doi.org/10.2749/newdelhi.2023.1364">https://doi.org/10.2749/newdelhi.2023.1364</a>					
102.	Global Cleaner Production Conference, Elsevier	Rheological insights and environmental implications of supplementary cementitious materials in cementitious suspensions for sustainable concrete pumping processes	Abhiram Shukla and K.V. Harish.,	Nov. 2023	-	-	Shanghai, China
103.	Global Cleaner Production Conference, Elsevier	Image analysis of concrete surface for investigating the influence of aggregate distribution on chloride penetration resistance	Mishra P.; Sarfaraz A.; Misra S.; Harish K.V.	Nov. 2023	-	-	Shanghai, China
104.	2023 8th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS)	Traffic Intersection Vehicle Movement Counts with Temporal and Visual Similarity based Re-Identification	Sahil Jaiswal; Pranamesh Chakraborty; Tingting Huang; Anuj Sharma	2023	--	01-Jun	Nice, France
105.	IEEE/CVF	The 7th AI City	Milind	2023	--	5538-5548	Vancouver,

	<p>Conference on Computer Vision and Pattern Recognition (CVPR) Workshops</p>	<p>Challenge</p>	<p>Naphade, Shuo Wang, David C. Anastasiu, Zheng Tang, Ming- Ching Chang, Yue Yao, Liang Zheng, Mohamme d Shaiqur Rahman, Meenakshi S. Arya, Anuj Sharma, Qi Feng, Vitaly Ablavsky, Stan Sclaroff, Pranamesh Chakrabort y, Sanjita Prajapati, Alice Li, Shangru Li, Krishna Kunadharaj u, Shenxin Jiang, Rama Chellappa;</p>				<p>Canada</p>
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106.	<i>103<sup>rd</sup> Transportation Research Board (TRB) Annual Meeting</i>	Effects of Water in Emulsified Mixture at the Time of Grouting on Mechanical Properties of Cold Mix Based Semi-Flexible Pavement Composite Material	Cai, X., Ashish, P.K., Leng, Z., Zhiefi, T., & Wang, H.	2024	N/A	N/A	Washington D.C., USA
107.	EGU 2023	Use of scaling to describe temporal variability in soil hydraulic properties	S. Kumar and R. Ojha	2023	Poster	-	Vienna, Austria
108.	Hydro 2023	Performance Evaluation of Green and Ampt Time of Ponding Model	S. U. M Rao and R. Ojha	2023		10	NIT Warangal
109.	International Conference on Computations and Data Science (CoDS, 2024)	Multi-Objective Optimization of Mathematical Models with Multi-population Strategy: A Case Study on Soil-Water Flow Parameter Estimation	A. Pandey, N. Vashishth, and R. Ojha	2024		8	IIT Roorkee
110.	International water conference for sustainable development goals (IWCSGDG - 2024)	Impact of Temporal Resolution of Soil Moisture Observations on Dual-Porosity Model Parameter Estimation	N. Vashishth, A. Pandey, S. Tripathi, and R. Ojha	2024		10	NIT Bhopal
111.	28th International	Development of	Singh, P.,	2023			NIT

	Conference on Hydraulics, Water Resources & Coastal Engineering, (HYDRO, 2023)	Local Meteoric Water Line for Kanpur, Uttar Pradesh	Balan, D., Ojha, R., Srivastava, R., Tripathi, S., Guha, S., Krishan, G., Rao, MS., Thakur, P.				Warangal
112.	National Youth Conference on Indian Knowledge Systems 2023, (IKS, 2023)	Observational Validation of Role of Wind in Traditional Agricultural Practices	Singh, P., Luvkush, Tripathi, S	2023			IIT Roorkee
113.	International Fog, Dew, and Dew Collection Conference 2023	Estimating Uncertainty for Fog Detection and Visibility Estimation using Satellite Observation	Deshpande, P. J., Tripathi S., and Bhattacharya A.	2023			Colorado State University, Fort Collins, USA
114.	EGU General Assembly 2023	Bayesian Neural Network-based Satellite Fog Detection	Deshpande, P. J., Tripathi S., and Bhattacharya A.	2023	<a href="https://doi.org/10.5194/egusphere-egu23-613">DOI: doi.org/10.5194/egusphere-egu23-613</a>		Vienna, Austria
115.	40th IAHR World Congress	Experimental Investigation of Pressure-Flow Scour Using Particle Image Velocimetry.	Majid, S. A., Tripathi, S., and Das, D.	2023	DOI: doi.org/10.5194/egusphere-egu23-613	2435-2443	Vienna, Austria
116.	Eight International	The effect of stress-	Jadar,	2023	1	01-Jun	Milos island,

	Conference of Unsaturated Soils	dependent SWRC on the load carrying capacity of the slope subjected to the drying-wetting path	C.M., Rajesh, S. and Roy, S.				Greece
Department of Cognitive Science							
117.	45rd Annual Conference of the Cognitive Science Society	Preference for happy Faces in emotion-based attentional priority in visual short term memory.	Pathak, D., & Srinivasan. N.	2023		1206-1212	Sydney
118.	45rd Annual Conference of the Cognitive Science Society	Unpredictability shortens planning horizons.	Mitra, A., Srinivasan, N., & Srivastava, N.	2023		540-547	Sydney
119.	Annual Conference of Cognitive Science	Effect of Valence & Uncertainty on Probabilistic Reinforcement Learning	Swarag Thaikkandi, K. M. Sharika	2023	Abstract Booklet 2023, Section P2.14	106-107	IIT Kanpur
120.	Proceedings of the Annual Conference of the Cognitive Science Society	Effects of Bilingualism on Inhibition Unlikely - Evidence from a bayesian Enquiry.	Rana, M., & Verma, A.	2023	45		Sydney
121.	Proceedings of the Annual Conference of the Cognitive Science Society	I Remember Me the Best, Always? Evidence for Self-Prioritization in Working Memory Binding using a	Roy, N, Ahmad, I, & Verma, A	2023	45		Sydney



		Visa-Spatial Working Memory Task.					
122.	Proceedings of the Annual Conference of the Cognitive Science Society	Handedness Modulates Spatial Attention - Insights from Individual Variations in Lateralisation of Cognitive Functions.	AV, Anjoom., Roy, N., & Verma, A	2023	45		Sydney
123.	Proceedings of the 46th Annual Conference of the Cognitive Science Society.	Holier-Than-Thou: Can Contextual Information About Minimal Groups Modulate the Robust In-Group Bias Effect?.	Baba, A., & Verma, A. (2024).	2024	46		Rotterdam
124.	Proceedings of the 46th Annual Conference of the Cognitive Science Society.	Effects of Bilingualism on Sustained Attention and Inhibition: A Bayesian Enquiry.	Rana, M., & Verma, A. (2024).	2024	46		Rotterdam
125.	Proceedings of the 46th Annual Conference of the Cognitive Science Society.	Is there flexibility in Letter-Position Encoding in Hindi? Evidence from a masked form-priming study.	Kumar, S., Khare, A. & Verma, A. (2024).	2024	46		Rotterdam
126.	Proceedings of SBP-BRIMS 2023	Understanding Clique Formation in Social Networks - An Agent-Based Model of Social Preferences in	Pratyush Arya and Nisheeth Srivastava	2023		231–240	USA

		Fixed and Dynamic Networks					
127.	Proceedings of RecSys 2023	Using Learnable Physics for Real-Time Exercise Form Recommendations	Abhishek Jaiswal, Gautam Chauhan and Nisheeth Srivastava	2023		688–695	NY, United States
128.	Proceedings of The 31st International Conference on Computers in Education. APSCE.	What does process mining of feedback-seeking reveal about problem-solving in chemistry undergraduates?	Anveshna Srivastava, & Chandan Dasgupta	2023 (December)	I	472-474	Matsue, Shimane, Japan
129.	Proceedings of The International Conference on Technology 4 Education (T4E). IEEE.	Designing the future: Investigating budding instructional systems designers' sense of agency, and learning in a multi-cohort complex community.	Anveshna Srivastava, Sheeja Vasudevan, Sunita Raste & Sridhar Iyer	2023 (November)	I	148-155	Mumbai (India)
Department of Computer Science and Engineering							
130.	CompEd 2023 - Proceedings of the ACM Conference on Global Computing Education	A Bug's New Life: Creating Refute Questions from Filtered CS1 Student Code Snapshots	Agarwal, N., Kumar, V., Raman, A., Karkare, A.	2023		1 7-14	Hyderabad
131.	COMPUTE 2023	Proceedings of the	Chitra	2023			Hyderabad

		16th Annual ACM India Compute Conference	Babu, Neeraj Goel, Amey Karkare				
132.	CALDAM 2024	On Query Complexity Measures and Their Relations for Symmetric Functions	Mittal, R., Nair, S.S., Patro, S.	2024		59-73	
133.	RANDOM 2023	On the Composition of Randomized Query Complexity and Approximate Degree	Chakraborty, S., Kayal, C., Mittal, R., Paraashar, M., Sanyal, S., Saurabh, N.	2023	275	63:1-63:23	
134.	Asia and South Pacific Design Automation Conference (ASP-DAC),	Multiplierless Design of High-Speed Very Large Constant Multiplications	L Aksoy, DB Roy, M Imran, S Pagliarini	2024		957-962	South Korea
135.	International Conference on VLSI Design (VLSID)	KiD: A Hardware Design Framework Targeting Unified NTT Multiplication for CRYSTALS-Kyber and CRYSTALS-Dilithium on FPGA	Suraj Mandal, Debapriya Basu Roy	2024		455-460	Kolkata
136.	CALDAM 2024	Consecutive Occurrences with Distance	Akram, W., Saxena, S	2024	10	3-13	Bhilai

		Constraints					
137.	IWOCA 2023	Point Enclosure Problem for Homothetic Polygons	Akram, W., Saxena, S	2023	34	13-24	Tainan, Taiwan
138.	MFCS 2023	Effective Continued Fraction Dimension Versus Effective Hausdorff Dimension of Reals	Nandakumar, S., Akhil, S., Vishnoi, P.	2023			Bordeaux, France
139.	MFCS 2023	A Weyl Criterion for Finite-State Dimension and Applications (2023) Leibniz International Proceedings in Informatics, LIPIcs, 272, art. no. 65, .	Lutz, J.H., Nandakumar, S., Pulari, S.	2023			Bordeaux, France
140.	SC-W'23	Accelerating In Situ Analysis using Non-volatile Memory	Hegde, D.B., Malakar, P.	2023		995-1004	Denver, US
141.	CCGRIDW	Importance-driven In situ Analysis and Visualization	Wani, M.A., Malakar, P.	2023			Bangalore
142.	HiPCW	P2RUTOR: A Programming Tutor for Parallel Programming	D. Hegde, P. Malakar and A. Karkare	2023		15-22	Goa
143.	HiPCW	Online Performance Visualization of Parallel Applications	S. Dey, P. Malakar	2023			Goa
144.	LEO-NET 2023	Exploring Low-	Basak, S.,	2023		1-6	Madrid,

		Earth Orbit Network Design	Pal, A., Bhattacharjee, D.				Spain
145.	IEEE/ACM Symposium on Edge Computing	On Balancing Latency and Quality of Edge- Native Multi-View 3D Reconstruction	Zhang, X., Gan, H., Pal, A., Dey, S., Debroy, S.	2023		1-13	Wilmington, DE, USA
146.	Design, Automation & Test in Europe Conference & Exhibition (DATE)	Aiding to Multimedia Accelerators: A Hardware Design for Efficient Rounding of Binary Floating Point Numbers	M. Rathor, V. Mishra and U. Chatterjee	2023		1-6	Antwerp, Belgium
147.	IEEE International Test Conference (ITC),	Biochip-PUF: Physically Unclonable Function for Microfluidic Biochips	Navajit Singh Baban, Ajymurat Orozaliev, Yong-Ak Song, Urbi Chatterjee, Sankalp Bose, Sukanta Bhattacharjee, Ramesh Karri, Krishnendu Chakraborty	2023		166-175	Anaheim, CA, USA
148.	International Conference on VLSI Design and 2024	Vig-WaR: Vigilantly Watching	Akash Panzade; Deepak	2024		449-454	Kolkata, India,

	23rd International Conference on Embedded Systems (VLSID)	Ransomware for Robust Trapping and Containment	Kumar; Mahendra Rathor; Urbi Chatterjee				
Department of Design							
149.	Futuring Design Education (FDE'24).	Overcoming the challenges posed by emergency remote teaching in engineering & product design teaching: Insights from student preferences	Behera, A., Alves de Sousa, R., Oleksik, V., Dong, J., Fritzen, D.	2024			IIT Delhi. 9-10 February, 2024.
150.	IEEE International Symposium on Technology and Society	Public Interest Technology and the Design for Next-Generation Personal Mobility in Indian Megacities.	Kant, V. , Das*, A., and Malhotra,S.	2023		1-8	Swansea UK, doi: 10.1109/ISTAS57930.2023.10306226
151.	IEEE International Symposium on Technology and Society	6G and the Future: Human-Technology Relations for Experientials.	Kant V.	2023		1-7	Swansea UK , doi:10.1109/ISTAS57930.2023.10305723
152.	2024 CHI Conference on Human Factors in Computing Systems	To Show or Hide - Investigating the Effect of Cursor Visibility in Gaze-controlled	VS, Rajashekhar, Aravind S, Aniruthvish	2024		1-6	Honolulu, HI, USA

		Interfaces	wak R, Narendhara n V, and Gowdham Prabhakar				
153.	ACM IUI Workshops 2024	Multi-Modal Interaction for Soft Continuum Robots during Post- Earthquake Search Operations	Rajashekha r, V. S., and Gowdham Prabhakar	2024		1-6	Greenville, SC, USA
154.	2023 CHI Conference on Human Factors in Computing Systems	DataLev: Mid-air Data Physicalisation Using Acoustic Levitation	Gao, L., Irani, P., Subramania n, S., Prabhakar, Gowdham., Martinez Plasencia, D., & Hirayama, R	2023		1-14	Hamburg, Germany
Department of Earth Science							
155.	European Geological Union, 2024	Layered by water: Impact excavation processes on terrestrial analogues for Mars.	Wilk J., Agarwal., A.	2024			Vienna, Austria
156.	EGU24	Insights into the Neoproterozoic Magmatic Evolution of the Western Nilgiri Block, Southern India.	Muhammed Shamil, V.T., Ishwar- Kumar, C., Satish- Kumar, M.	2024	EGU24- 10081		Vienna, Austria

157.	85th EAGE Annual Conference & Exhibition	Integrating Particle Swarm Optimization in a Hybrid Approach to Address FWI Non-linearity	Vikas, Ghosal D, Roy S	2024			Oslo
158.	85th EAGE Annual Conference & Exhibition	Advancing Seismic Facies Classification: A comparative Deep Learning Approach	Jaiswal G, Ghosal D	2024			Oslo
159.	EGU	Evidence of Paleo ANF and crustal architecture beneath the Narcondam: Insights from High-Resolution Reflection Seismic Data and Gravity modeling	Srivastav H, Ghosal D, Kumar P	2024			Vienna
160.	5th Workshop on Luminescence Dating and its Application by Association of Luminescence Dating	Revisiting post-exposure erosion histories using General order kinetic model.	Arbaz N. Pathan, Rabiul H. Biswas	2024	5 <sup>th</sup>	24-25	Physical Research Laboratory, Ahmedabad
161.	5th Workshop on Luminescence Dating and its Application by Association of Luminescence Dating	Chronology of extreme flooding events using luminescence dating of cobbles.	Prakash R. Jena, Rabiul H. Biswas, Sheikh N. Ali	2024	5 <sup>th</sup>	110-111	Physical Research Laboratory, Ahmedabad
162.	4th International	Temporal	Thupstan	2024			Grenoble,



	<p>Conference on Snow Hydrology (SnowHydrology2024)</p>	<p>assessment of snow cover, temperature and precipitation in Sikkim Himalaya: A 2000-2020 perspective  <a href="https://snowhydro2024.sciencesconf.org/data/pages/SnowHydrology2024_Full_Program_231115.pdf">https://snowhydro2024.sciencesconf.org/data/pages/SnowHydrology2024_Full_Program_231115.pdf</a></p>	<p>Angchuk (1,2),  Rakesh Kumar  Ranjan (2),  Zimik  Vashai  Horthing (2,3),  Arindan Mandal (4),  Rajeev Rajak (2),  Bidyutjyoti Baruah (2),  Aparna Gupta (2),  Khushboo Sharma (2),  Anirudra Rai (2),  Vinay Kumar  Gaddam (2)</p> <p>1-  Department of Earth Sciences, Indian Institute of Technology Kanpur, Kanpur (India), 2-  Cryospheric Research</p>				<p>France</p>
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			Laboratory, Sikkim University (India), 3- Chemical Oceanogra phy Division, CSIR- National Institute of Oceanogra phy, Goa (India), 4- Interdiscipl inary Centre for Water Research, Indian Institute of Science, Bangalore (India)				
163.	EGU General Assembly 2024	Increased up- glacier thinning in four major glaciers of High Mountain Asia revealed by geodetic mass balance estimates  <a href="https://meetingorganizer.copernicus.org/EGU24/EGU24-920.html">https://meetingorganizer.copernicus.org/EGU24/EGU24-920.html</a>	Arindan Mandal1, Anshuman Bhardwaj2, Mohd Farooq Azam3, Bramha Dutt Vishwakar ma1,4, and Thupstan	2024			Vienna, Austria

			<p>Angchuk5 1 Interdiscipl inary Centre for Water Research, Indian Institute of Science, Bangalore, India (arindan.14 1@gmail.c om) 2 School of Geoscience s, University of Aberdeen, Aberdeen, United Kingdom 3 Department of Civil Engineerin g, Indian Institute of Technology Indore, Simrol, India 4 Centre for Earth</p>				
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			Sciences, Indian Institute of Science, Bengaluru, India 5 Department of Earth Sciences, Indian Institute of Technology Kanpur, Kanpur, India				
164.	American Geophysical Union, 2023.	Modeling the Magnetic Signatures of Seaward Dipping Reflectors on the Norwegian Margin	Wear, J., Filina, I., Planke, S., Berndt, C., Zarikian, C.A.A., Agarwal, A., Andrews, G.D., Betlem, P., Bhattachar ya, J., Brinkhuis, H. and Chatterjee, S.	2023			San Francisco, USA
165.	American Geophysical Union, 2023.	Mantle Source Conditions and their Control on	Cunningha m, E., Hartley,	2023			San Francisco, USA

		<p>Magmatic Productivity during the Northeast Atlantic Breakup.</p>	<p>A.S., Lambart, S., Chatterjee, S., Guo, P., Tegner, C., Planke, S., Berndt, C., Zarikian, C.A.A., Betlem, P. and Brinkhuis, H., Christopoul ou M.E., Filina Y. Irina, Frieling J., Harper D.T., Jones M.T., Longman J., Mohn G., Scherer R.P., Varela N., Xu W., Yager S.L., Andrews G.D.M., Agarwal A., Bhattachar ya J., Ferré E.C.</p>				
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			Nakaoka, R., Wang M., Xu W.			
166.	American Geophysical Union, 2023.	Volcano- sedimentary evolution of Seaward Dipping Reflectors, mid- Norway: results from IODP Expedition 396.	Planke S., Berndt C., Alvarez Zarikian C.A., Jolley D., Manton B., Zastrozhno v D., Gernigon L., Myklebust R., Agarwal A., Andrews G.D.M., Betlem P., Bhattachar ya J., Brinkhuis H., Chatterjee S., Christopoul ou M.E., Vincent J. Clementi, Filina Y. Irina, Frieling J., Guo P., Harper	2023		San Francisco, USA

			D.T., Jones M.T., Longman J., Mohn G., Nakaoka, R., Scherer R.P., Tegner C., Varela N., Wang M., Xu W., Yager S.L., Ferré E.C.				
167.	American Geophysical Union, 2023.	Maghemitization of titanomagnetite, submarine alteration and marine magnetic anomalies in the Vøring Basin, North Atlantic.	Ferré E.C., Agarwal A., Varela N., Planke S., Berndt C., Alvarez Zarikian C.A., Andrews G.D.M., Betlem P., Bhattachar ya J., Brinkhuis H., Chatterjee S., Christopoul ou M.E., Vincent J. Clementi, Filina Y.	2023			San Francisco, USA

			<p>Irina, Guo  P., Frieling  J., Harper  D.T., Jones  M.T.,  Lambart S.,  Longman  J., Millett  J.M., Mohn  G.,  Nakaoka  R., Scherer  R.P.,  Tegner C.,  Wang M.,  Xu W.,  Yager S.L.</p>			
168.	<p>American  Geophysical Union,  2023.</p>	<p>The Northeast  Atlantic breakup  (IODP Exp. 396):  Investigation of  mantle conditions  and their controls  on magmatic  productivity. AGU  2023.</p>	<p>Cunningham  E.,  Hartley,  A.S.,  Lambart S.,  Guo P.,  Chatterjee  S., Tegner  C., Planke  S., Berndt  C., Alvarez  Zarikian C.,  Betlem P.,  Brinkhuis  H.,  Christopoulos  M.E.,  Filina I.Y.,  Frieling J.,</p>	2023		<p>San  Francisco,  USA</p>



			Harper D.T., Jones M.T., Longman J., Millett J.M., Mohn G.T.F., Scherer R.P., Varela N., Xu W., Yager S.L., Andrews G. Agarwal A., Battacharya , J., Ferré, E., Nakaoka, R. and Wang, M.				
169.	European Geological Union, 2023.	Systematic reorientation of diamagnetic fabrics of Taunus quartzite due to experimental impact cratering.	Tiwari S., Agarwal A., Kenkmann, T., Poelchau M.	2023			Vienna, Austria
170.	GOLDSCHMIDT. 2023, London	New Constraints on the Melting Conditions During the Northeast Atlantic Breakup: Preliminary Results From IODP Expedition 396.	Cunningham E., Lambart S., Guo P., Chatterjee S., Tegner C., Planke S., Berndt	2023			London, UK

			<p>C.7,  Alvarez  Zarikian C.,  Betlem P.,  Brinkhuis  H.,  Christopoul  ou M.E.,  Filina I.Y.,  Frieling J.,  Harper  D.T., Jones  M.T.,  Longman  J., Millett  J.M., Mohn  G.T.F.,  Scherer  R.P.,  Varela N.,  Xu W.,  Yager S.L,  Agarwal  A.,  Andrews  G.,  Battacharya  J., Clementi  V.J., Ferré,  E.,  Nakaoka R.  and Wang,  M.</p>			
171.	60th Annual Convention of Indian Geophysical Union	Estimation of Curie depth and heat flow for central part of	Mukherjee, A., and A. Mandal	22-24 Nov, 2023		CUSAT, Kochi, Kerala

	(IGU)	Eastern Ghats Mobile belt: insight into non-volcanic geothermal systems					
172.	20th Annual meeting Asia Oceania Geosciences Society -AOGS2023	Integrated Geophysical Studies to Decipher Subsurface Configuration and Evolution of a Non- volcanic Geothermal System Along Mahanadi Rift Basin, India	Basantaray, A., and A. Mandal	30July -4Aug, 2023			Singapore
173.	20th Annual meeting Asia Oceania Geosciences Society -AOGS2023	Delineation of Crustal Configuration of the Eastern Ghats Mobile Belt, Odisha, India Using Global Gravity Data and Its Relation with the Non-volcanic Geothermal Systems	Mukherjee, A., A. Basantaray, and A. Mandal	30July -4Aug, 2023			Singapore
174.	84th EAGE Annual Conference & Exhibition	Retrieving low- frequency information from band-limited seismic post-stack data for improving impedance model using GADAM- based DNN	Dixit, A., A. Mandal, and S. S. Ganguli	5-8 June 2023	2023	P. 1-5	Vienna, Austria
175.	EGU General	Utilizing global	Mukherjee,	24-28	EGU23-		Vienna,

	Assembly	gravity data to delineate magmatic underplating and its implications: A case study from Proterozoic Vindhyan basin, south of Bundelkhand craton, India	A., and A. Mandal	Apr 2023	6239		Austria
176.	AGU	Dealing Nonlinearity in Objective Function of Full Waveform Inversion Algorithm Using a Hybrid Technique	Vats V, Ghosal D, Roy S	2023			USA
177.	84th EAGE Annual Conference & Exhibition	Wavelet Assisted Constrained Least Squares Spectral Analysis Algorithm for Time-Frequency Analysis: Hybrid/Mixed-Model Wavelet-Fourier basis approach	Pant A., Ghosal D., Puryear C., Akaba PA., Quansah AD	2023			Vienna
178.	17 <sup>th</sup> International Luminescence and Electron Spin Resonance Dating conference	Revisiting Modelling Aspect of OSL Rock Surface Exposure Dating	Rabiul H. Biswas, Arbaz N. Pathan	2023	17 <sup>th</sup>	21	Copenhagen, Denmark
179.	4th Workshop on Luminescence Dating and its	Revisiting Modelling Aspect of OSL Rock	Arbaz N. Pathan, Rabiul H.	2023	4 <sup>th</sup>	32-33	IISER, Kolkata

	Application by Association of Luminescence Dating	Surface Exposure Dating	Biswas				
Department of Economic Sciences							
180.	The Economics Exchange: Dialogues on Development,	Violence, Son preference and fertility: Evidence from India	Dar, A; Pakrashi, D and Thakur, S	2024	N/A	N/A	Ashoka University and Indian Statistical Institute, Delhi
181.	Asia Meeting of the Econometric Society	Technological Changes, Social Norms and Fertility Choices	Jiang, H; Sangwan, N and Thakur, S	2024	N/A	N/A	Indian Institute of Technology, Delhi
182.	5th World Bank/IFS/ODI Tax Conference	Political Economy of Public Finances	Datta, N.	2023	N/A	N/A	London, UK
183.	20th Macroeconomics and Finance Conference	20th Macroeconomics and Finance Conference	Datta, N.	2023	N/A	N/A	IGIDR, Mumbai
184.	Asian and Australasian Society of Labour Economics Conference, 2023	The Heat is on: Temperature and Test Scores in India	Sircar, S.	2023	N/A	N/A	Taipei, Taiwan
185.	9th International Conference on Law and Economics	Use pattern off plastic and the Constitution of India	Abhisek Mohanty, Annesha RoyChowdhury, Arunabh Meshram and Murali Prasad Panta	2023			BBAU, Lucknow

186.	9th International Conference on Law and Economics	Constitution and the cyberism in financial services in India	Sameer G. Kulkarni, Murali Prasad Pant, and Manoj Dalvi	2023			BBAU, Lucknow
187.	9th International Conference on Law and Economics	Panel Discussion on The Constitutionalism and Value of Life (VoL) in India	BL Mungekar, Anirudh Krishnan and Murali Prasad Pant	2023			BBAU, Lucknow
188.	The Second International Conference on Aging - Inclusive Futures: Forging an Interdisciplinary Dialogue in Aging Research and Practice	Impact of Economic, Cultural, and Social Capital on Self-Rated Health of Older Adults in Lucknow City'	Anamika Singh and Esha Chatterjee	2023			Flame University Pune
189.	Population Association of America (PAA)	'Unwanted Fertility and Self Rated Health of Women in India'	Esha Chatterjee and Johny KD	2024			Columbus, Ohio, USA (couldn't attend because of VISA
190.	Population Association of America (PAA)	'Housing Insecurity amongst Renters in Slums: A Case Study from Noida City, India'	Johny KD and Esha Chatterjee	2024			Columbus, Ohio, USA (couldn't attend because of VISA
191.	2024 Asia Meeting	Designing	Singh,	2024			IIT Delhi

	of the Econometric Society, Delhi	information about co-workers' successes	Hargungeet				
192.	Asia Meeting of the Econometric Society (AMES-CSW) 2024	Flexible Bayesian Quantile Analysis of Residential Rental Rates	Ivan Jeliaskov, Shubham Karnawat, Mohammad Arshad Rahman, and Angela Vossmeier	2024			
193.	European Population Conference (EPC)	'Relationship Dynamics and Young Women's Contraceptive Use'	Christie Sennott, Esha Chatterjee and Sara Yeatman	2024			Edinburgh, UK
194.	British Society of Gerontology (BSG)	'Impact of Economic, Cultural, and Social Capital on Self-Rated Health of Older Adults in Lucknow City'	Anamika Singh and Esha Chatterjee	2024			Newcastle, UK
195.	Australasian Trade Workshop, Te Kura Umanga	"A quantitative assessment of the Indo-Pacific Economic Framework (IPEF) and opting out of the trade pillar: Evidence from a global economic model"	Rahul Sen and Mathur Somesh K	2024			UC Business School University of Canterbury, Christchurch, New-Zealand

196.	Japan Economic Policy Association Meeting	“Revitalizing APTA through possible Japan’s inclusion and India’s omission: A General Equilibrium analysis using Structural gravity model”		2023			Osaka, Japan 2023 and DSE Winter School 2023.
197.	16th Trade Workshop	“India’s Possible Alignment with RCEP: A Partial and General Equilibrium Impact on Economy Wide Variables and Carbon Emissions”	Mathur Somesh K	2023			Cairns, Australia
198.	3rd SDMRG Structural Macro workshop	"Assessment of Possible Economic Alignment Between G20 Nations with Special Focus on India, G7 and G12: A General Equilibrium Analysis"	Mathur Somesh K	2023			University of Brasilia, Brazil
199.	18th ISI Development Economics conference	Spatial Convergence among Indian Districts: An Econometric Evidence	Manish Chauhan, Somesh Kumar Mathur, Praveen Kulshreshta	2023			Columbia
200.	International	KKT	Parin				



	Symposium on Applied Optimization and Game Theoretic Models for Decision Making 2024	Reformulations for Single Leader Multi-Follower Games	Chaipunya, Thirumulanathan D, and Joydeep Dutta				
201.	Asian Meeting of the Econometric Society, 2023	Patriarchal gender norms: A life-cycle model of education, marriage, and labor supply choice	Raghvi Garg	2023			
202.	Economics Workshop, Plaksha University	Patriarchal gender norms: A life-cycle model of education, marriage, and labor supply choice	Raghvi Garg	2024			
Department of Electrical Engineering							
203.	2nd International Conference on Wireless, Antenna and Microwave Symposium, WAMS 2023	A Compact Polarization Insensitive Triple-band Artificial Magnetic Conductor using Complementary Structures	Pandit V.K.;Harish A.R.	2023			
204.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	A Conformal Wideband Metamaterial Absorber Integrated with Chip Resistor for Microwave Shielding in C- and X- band Applications	Raj A.;Chaudhary R.K.;Gangwar R.K.	2023			
205.	2023 IEEE	A Low Profile	Awasthi	2023			

	Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Omni-directional Antenna using Modified Split-ring Slot as a Radiator for UHF Band Applications	S.;Mishra S.;Richa ;Chaudhary R.K.				
206.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	A Multilayer Slot Coupled Multi-element Monopole Radiator with End-fire Radiation Pattern for mmWave Applications	Mishra M.;Sharma R.;Chaudhary R.K.	2023			
207.	2023 IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies, GlobConHT 2023	A New Grid connected Doubly Grounded PV Micro-inverter with Power Decoupling Capability	Jamatia A.;Sensarma P.	2023			
208.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	A Novel Interference-Based Approach for Harmonic Suppression in Microwave Frequency Doublers	Banerjee D.;Banerjee A.;Akhtar M.J.	2023			
209.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	A Novel Tumour Characterization in Microwave Imaging Using Pattern-Based Weighted DMAS	Rani S.;Chowdhury A.;Khasnobish A.;Chakrav	2023			

			arty S.;Chakrav arty T.;Akhtar M.J.				
210.	2023 9th Indian Control Conference, ICC 2023 - Proceedings	A Reinforcement- Learning Approach to Control Robotic Manipulator Based on Improved DDPG	Majumder S.;Sahoo S.R.	2023		281-286	
211.	International Conference on Integrated Intelligence and Communication Systems, ICIICS 2023	A Resilient Approach to Robust JPEG Steganography: Ensuring Hidden Data Integrity	Kumar R.;Bansal S.;Bansal R.K.	2023			
212.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	A Simplified RF Technique to Estimate the Conductivity of Metal Composites	Singh S.P.;Tiwari N.K.;Azad P.;Akhtar M.J.	2023			
213.	2023 IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation, SeFet 2023	A Single Stage Single Phase Micro-Inverter with Inherent Active Power Decoupling Mechanism for PV- Grid System Based EV Charging Station	Jamatia A.;Sensarm a P.	2023			
214.	7th IEEE Electron Devices Technology	A Width-Scalable SPICE Model of	Ansari M.H.;Dang	2023			

	and Manufacturing Conference: Strengthen the Global Semiconductor Research Collaboration After the Covid-19 Pandemic, EDTM 2023	GaN-HEMTs for X-band RF Applications	i R.;Pampori A.;Kushwa ha P.;Yadav E.;Sinha S.;Chauhan Y.S.				
215.	2023 International Conference on Unmanned Aircraft Systems, ICUAS 2023	Actuator Fault Detection in Centrally Powered Variable-Pitch Propeller Quadrotor Vehicles	Chaturvedi S.;Sahoo S.R.	2023		976-981	
216.	2023 9th Indian Control Conference, ICC 2023 - Proceedings	Adaptive Robust Control of Torpedo-Shaped Autonomous Underwater Vehicle for Underwater Payload Delivery	Krishnadas K.M.;Kale T.R.;Ferna ndes M.;Sahoo S.R.	2023		437-442	
217.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Adulteration Detection of Glycol in Medical Grade Solvents Using the CSRR Loaded Stepped Coplanar Waveguide	Kumari A.;Azad P.;Kumar A.;Akhtar M.J.	2023			
218.	2023 IEEE Microwaves, Antennas, and Propagation	An Elliptical Shaped Wideband MIMO Terminal Antenna with	Richa ;Chaudhary R.K.	2023			

	Conference, MAPCON 2023	Improved Isolation and Radiation Efficiency for 5G mmWave Applications					
219.	7th IEEE Electron Devices Technology and Manufacturing Conference: Strengthen the Global Semiconductor Research Collaboration After the Covid-19 Pandemic, EDTM 2023	Analysis and Modeling of OFF- State Capacitance in LDD MOSFETs	Sharma A.;Goel R.;Chauhan Y.S.	2023			
220.	2023 11th National Power Electronics Conference, NPEC 2023	Analysis of Phase Modulated Series Resonant Converter in Discontinuous Conduction Mode	Dey A.;Sensarm a P.	2023			
221.	2023 9th Indian Control Conference, ICC 2023 - Proceedings	Average Consensus in Discrete-Time Cyclic Pursuit with Communication Delays	Paul S.;De S.;Sahoo S.R.	2023		257-262	
222.	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings	Balanced Deep CCA for Bird Vocalization Detection	Kumar S.;Anshum an B.;Ruttima nn L.;Hahnlos er R.H.R.;Aro	2023	2023-June		

			ra V.				
223.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Bandwidth Enhancement of Circular Patch Antenna Through Reflective Excitation Technique	Srivastava S.;Sivada M.S.;Haris h A.R.	2023			
224.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Beam-forming of a Linear Antenna Array Using Reconfigurable Frequency Selective Surface	Dutta R.K.;Bandy opadhyay B.;Jaiswal R.K.;Srivas tava K.V.	2023			
225.	7th IEEE Electron Devices Technology and Manufacturing Conference: Strengthen the Global Semiconductor Research Collaboration After the Covid-19 Pandemic, EDTM 2023	Characterization and Modeling of I- V, C-V and Trapping behavior of SiC Power MOSFETs	Nazir M.S.;Pamp ori A.;Zarkob Y.H.;Kar A.;Chauhan Y.S.	2023			
226.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Circular patch impinged 4Å—4 patch metasurface loaded, Dual polarized, Wide- band antenna	Mishra R.;Harish A.R.	2023			
227.	2023 IEEE Microwaves, Antennas, and	Circularly Polarized Perturbated	Sanghmitra ;Gangwar R.K.;Chaud	2023			

	Propagation Conference, MAPCON 2023	Dielectric Resonator MIMO Antenna Coupled with sectored Ring-shape Feeding for mmWave Applications	hary R.K.				
228.	Proceedings of the 2023 IEEE International Conference on Computer Vision and Machine Intelligence, CVMI 2023	Code-Mixing and Code-Switching on Social Media Text: A Brief Survey	Mangla A.;Bansal R.K.;Bansal S.	2023			
229.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Complementary Radially Shaped Split Resonator Structure for Quality Assessment of Cooking Oils	Banerjee A.;Tiwari N.K.;Akhtar M.J.	2023			
230.	Proceedings of the 2023 International Conference on Optical Network Design and Modeling, ONDM 2023	Congestion-Aware Dynamic RMCSA Algorithm for Spatially Multiplexed Elastic Optical Networks	Heera B.S.;Singh Y.N.;Sharma A.	2023			
231.	2023 9th Indian Control Conference, ICC 2023 - Proceedings	Control of a Torpedo-Shaped AUV with Partial Actuator Failure	Kale T.R.;Krishnasadas K.M.;Fernandes M.;Sahoo S.R.	2023		327-332	

232.	2023 10th IEEE International Conference on Power Systems, ICPS 2023	Controller Hardware-In-the-Loop Validation of Phasor-Domain Algorithms for High-Speed Protection of Power Networks	Kumar B.R.;Mohapatra A.;Chakrabarti S.	2023			
233.	7th IEEE Electron Devices Technology and Manufacturing Conference: Strengthen the Global Semiconductor Research Collaboration After the Covid-19 Pandemic, EDTM 2023	Cryogenic Characterization and Model Extraction of 5nm Technology Node FinFETs	Parihar S.S.;Pahwa G.;Huang J.Z.;Wang W.;Imura K.;Hu C.;Chauhan Y.S.	2023			
234.	2023 European Control Conference, ECC 2023	Decentralizing Consensus-Alternating Direction Method of Multipliers	Routray C.;Sahoo S.R.	2023			
235.	2024 16th International Conference on COMMunication Systems and NETWORKS, COMSNETS 2024	Delay Analysis to Accelerate eXtended Reality (XR) with Passive Optical Networks (PONs)	Patel A.;Upadhyay P.;Singh Y.N.	2024		418-420	
236.	2023 IEEE IAS Global Conference on Renewable	Deployment of MEMO-ESPRIT Python Tool at	Srivastava A.K.;Tiwari	2023			



	Energy and Hydrogen Technologies, GlobConHT 2023	GIFT City Testbed for Harmonic/Interharmonic Analysis	A.N.;Singh S.N.;Pampana V.;Kuhada R.B.;Rajpu rohit B.S.				
237.	Proceedings - Design Automation Conference	Design Automation for Cryogenic CMOS Circuits	Van Santen V.M.;Walte r M.;Klemm e F.;Parihar S.S.;Pahwa G.;Chauhan Y.S.;Wille R.;Amrouc h H.	2023	2023-July		
238.	Conference Proceedings - IEEE Applied Power Electronics Conference and Exposition - APEC	Design methodology for Power-Dense and Cost-effective Series-Stacked Active Power Decoupling Circuit	Deshmukh N.;Sarkar A.;Chaneka r A.;Anand S.;Sahoo S.R.	2023	2023-March	2014-2020	
239.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Design of Complementary Meander Shaped Resonator for Adulteration Testing	Jain S.;Azad P.;Tiwari N.K.;Akhta r M.J.	2023			
240.	2023 IEEE IAS Global Conference on Emerging Technologies, GlobConET 2023	Design of Electricity Trading Price Function in Local Market of Electricity inside a Microgrid using the	Guha B.;Mohapat ra A.;Sahoo S.R.	2023			

		Cournot model					
241.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Design of FSS Based RF Energy Harvesting System With Near Unity Absorption	Fatima F.;Ravinder ;Akhtar M.J.	2023			
242.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Design of Flame- Retardant, Hydrophobic, Ultrathin, Lightweight and Flexible EMI shielding Fabric and Sheets for Defense, Space & Industrial Applications	Chakradhar y V.K.;Gang war S.;Akhtar M.J.;Kar K.K.;Jha S.	2023			
243.	2023 9th Indian Control Conference, ICC 2023 - Proceedings	Desired Clustering in Signed Networks	Shrinata A.;Tripathy T.;Behera L.	2023		233-238	
244.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Development of Lightweight and Flexible Carbon Nanofiber and Polyurethane Nanocomposite for EMI Shielding Applications	Tahalyani J.;Akhtar M.J.;Kar K.K.	2023			
245.	2023 9th International Conference on Automation, Robotics and	Distributed Optimisation under a Weight- unbalanced Digraph	Prateek Priyaranjan Pradhan ., Arijit Sen ., Mangal	2023		379-384	

	Applications, ICARA 2023		Kothari ., Ketan Rajawat .,				
246.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Dual-Circularly Polarized Antenna Array for Automotive Radar at 77 GHz based on SISL Topology	Aakash ;Rai A.K.;Vish wakarma R.;Bhattach arya S.;Srivastav a K.V.	2023			
247.	2023 9th Indian Control Conference, ICC 2023 - Proceedings	Effect of External Biases on Opinion Formation in a Cooperative Network	Thota V.;Kamthe A.N.;Tripat hy T.	2023		251-256	
248.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	FSS Integrated Hybrid Nanocomposite Microwave Absorber Structure for Stealth Applications	Choudhary A.;Tahalya ni J.;Akhtar M.J.	2023			
249.	2023 9th Indian Control Conference, ICC 2023 - Proceedings	Fixed-Time Sliding Mode Control for a Class of Second- Order Perturbed Systems with Applications to Quadrotor and Robot Manipulator	Kant M.;Behera L.;Verma N.K.	2023		407-412	
250.	2024 3rd International Conference on Power, Control and	Flexible GTVSG Power Quality Enhancement Using Resilient	Behera S.K.;Panda A.K.;Venk ataramana	2024		439-444	

	Computing Technologies, ICPC2T 2024	Heterogeneous Voltage and Current Control	Naik N.;Pattnaik S.;Mohapatra P.;Karthik M.				
251.	2024 16th International Conference on COMmunication Systems and NETworkS, COMSNETS 2024	Fragmentation and Topology-Aware Spectrum Assignment in Elastic Optical Networks	Upadhyay P.;Heera B.S.;Singh Y.N.	2024		752-755	
252.	2nd Edition of IEEE Delhi Section Owned Conference, DELCON 2023 - Proceedings	Fragmentation-Aware RCSA Algorithm for Fair Spectrum Allocation in SDM-EON	Heera B.S.;Sharma A.;Lohani V.;Singh Y.N.	2023			
253.	IEEE/IFIP International Conference on VLSI and System-on-Chip, VLSI-SoC	Frontiers in AI Acceleration: From Approximate Computing to FeFET Monolithic 3D Integration	Kumar S.;Genssler P.R.;Mansour S.;Chauhan Y.S.;Amrouch H.	2023			
254.	Journal of Physics: Conference Series	Hidden Grid Background Oriented Schlieren in studying convective flows	Ambrosini D.;Rubeis T.D.;Paoletti D.;Ramaiah J.;Gannavarpu R.	2023	2509		
255.	2023 IEEE Microwaves,	High Efficiency and High Linearity	Zaid M.;Pampori	2023			

	Antennas, and Propagation Conference, MAPCON 2023	GaN Power Amplifier with Harmonic Tuning and Fundamental Matching Networks	A.;Nazir M.S.;Chauhan Y.S.				
256.	7th IEEE Electron Devices Technology and Manufacturing Conference: Strengthen the Global Semiconductor Research Collaboration After the Covid-19 Pandemic, EDTM 2023	High-Frequency Characterization and Modeling of Low and High Voltage FinFETs for RF SoCs	Chauhan Y.S.;Kar A.;Parihar S.S.;Huang J.Z.;Zhang H.;Wang W.;Imura K.	2023			
257.	2024 IEEE 14th Annual Computing and Communication Workshop and Conference, CCWC 2024	Image based and Point Cloud based Methods for 3D View Reconstruction in Real-time Environment	Agrawal A.;Sharma T.;Verma N.K.;Vasikarla S.	2024		36-42	
258.	2023 IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies, GlobConHT 2023	Impact of the Designed Electricity Trading Price Function using Cournot Model on the Cost Benefit Analysis in Local Market inside a Microgrid	Guha B.;Mohapatra A.;Sahoo S.R.	2023			
259.	EUROCON 2023 - 20th International	Indirect Cyber-Physical Attack	Yadav S.;Kishor	2023		204-209	

	Conference on Smart Technologies, Proceedings	with Combined Circuit Breaker and Excitation System	N.;Purwar S.;Chakrabarti S.				
260.	2023 National Conference on Communications, NCC 2023	Information Loss Minimization in FANET-Aided Rechargeable IoT Networks Using Q-Learning	Singh A.;Dixit Y.;Hegde R.M.	2023			
261.	2023 15th International Conference on COMMunication Systems and NETWORKS, COMSNETS 2023	Intelligent RMCSA Algorithm for Space Division Multiplexed Elastic Optical Network (SDM-EON)	Heera B.S.;Sharma A.;Akansha K.;Singh Y.N.	2023		331-334	
262.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Intrinsic Isolation in SIW-based MIMO Antenna for 5G mmWave Applications	Kumari T.;Gangwar R.K.;Chaudhary R.K.	2023			
263.	IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, ICCAD	Invited Paper: Ultra-Efficient Edge AI Using FeFET-based Monolithic 3D Integration	Kumar S.;Chauhan Y.S.;Amroth H.	2023			
264.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Isolation and Gain Enhancement of MIMO Diversity Antenna using Metamaterial Absorber and	Ameen M.;Richa;Chaudhary R.K.	2023			

		Linear-to-Circular Polarization Converter					
265.	IEEE International Conference on Communications	LSFD for Rician-Faded Cell-Free mMIMO Systems with Channel Aging and Hardware Impairments	Chattopadhyay A.;Tentuv.;Amudala D.N.;Budhiraja R.	2023	2023-May	1524-1529	
266.	2023 10th IEEE International Conference on Power Systems, ICPS 2023	LVRT Capability Enhancement of Doubly-Fed Induction Generator using Multi-Stage Control	Mahawar J.K.;Vishwanath G.M.;Chakrabarti S.	2023			
267.	2024 National Conference on Communications, NCC 2024	Link-State-Aware and Topology-Aware Dynamic Resource Allocation in Spatially Multiplexed EONs	Heera B.S.;Sharma A.;Lohani V.;Singh Y.N.	2024			
268.	2023 National Conference on Communications, NCC 2023	Long-Term Temporal Audio Source Localization using SH-CRNN	Dwivedi P.;Hazare S.B.;Routray G.;Hegde R.M.	2023			
269.	Proceedings of the 2023 IEEE International Conference on Computer Vision and Machine	Machine Translation Techniques using AI : A Review	Singh C.;Bansal R.K.;Bansal S.	2023			

	Intelligence, CVMI 2023						
270.	International Conference on Microwave, Antenna and Communication, MAC 2023	Mathematical Analysis of Active Reflection Coefficient for the design of Phased Array Antennas	Srivastava S.;Mishra R.;Gupta G.;Harish A.R.	2023			
271.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Microwave Active Resonator for High Resolution Sensing Applications	Banerjee A.;Banerjee D.;Kumar A.;Akhtar M.J.	2023			
272.	Proceedings of the International Conference on Sensing Technology, ICST	Microwave based Non-Invasive Localized Anomaly Detection in Wood as a Biological Tissue Phantom	Mazumder A.;Khasnob ish A.;Chakrav arty T.;Akhtar M.J.	2023			
273.	International Conference on Metamaterials, Photonic Crystals and Plasmonics	Miniaturized Metamaterial Absorber Using Lossy Effective Dielectric-Medium and Resistive Metasurface	Yadav J.;Saikia M.;Srivasta va K.V.;Ramk umar J.	2023		1629-1630	
274.	Proceedings of the IEEE Conference on Nanotechnology	Modeling and Benchmarking 5nm Ferroelectric FinFET from Room Temperature down to Cryogenic Temperatures	Parihar S.S.;Chatte rjee S.;Pahwa G.;Chauhan Y.S.;Amro uch H.	2023	2023-July	643-648	



275.	APSCON 2024 - 2024 IEEE Applied Sensing Conference, Proceedings	Multifunctional Antenna with Wideband and Narrowband Spectrum Sensing for Cognitive Radio Application	Richa ;Chaudhary R.K.	2024			
276.	International Conference on Microwave, Antenna and Communication, MAC 2023	Mutual coupling mitigation and bandwidth enhancement in 2 $\tilde{A}$ —1 array using feed point modification and metamaterial superstrate	Mishra R.;Sivada M.S.;Haris h A.R.	2023			
277.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Null Steering Using Reconfigurable Intelligent Surfaces	Kumar S.;Mishra R.;Harish A.R.	2023			
278.	IEEE Wireless Communications and Networking Conference, WCNC	On Effect of Adversaries in a Cooperative MCvD Network and Filtering Mechanism	Nath T.;Banerjee A.	2023	2023- March		
279.	2023 National Conference on Communications, NCC 2023	On the Performance of Communication in a Vehicular Network with Platoon Traffic	Rangesh P.;Pandey K.;Gupta A.K.	2023			

280.	2023 11th National Power Electronics Conference, NPEC 2023	Optimal Artificial Neural Network-based Maximum Torque Control for Permanent Magnet Synchronous Machine in Modular Cascade Machine System	Bhati S.;Das S.P.	2023			
281.	2023 National Conference on Communications, NCC 2023	Optimal Data Transfer Over RIS-Assisted Edge Networks Using Coordinated 3D Beamforming	Tripathi S.;Pandey O.J.;Hegde R.M.	2023			
282.	2023 National Conference on Communications, NCC 2023	Parturition Hindi Speech Dataset for Automatic Speech Recognition	Bansal V.;Thishyan Raj T.;Ravi N.;Korde S.;Kalra J.;Murugesan S.;Ramkrishnan B.;Gore A.;Arora V.	2023			
283.	IEEE International Conference on Electrical, Electronics, Communication and Computers, ELEXCOM 2023	Performance Analysis of RSMA-Based Multi-User MISO System	Agham K.;Shekawat A.S.;Singh Y.N.;Peruru S.S.	2023			

284.	Conference Record - Asilomar Conference on Signals, Systems and Computers	Performance of Mobile Cyber-Physical Agents with Discrete Trajectories for Sensing Spatio-Temporal Variables	Hussain W.J.;Gupta A.K.;Pandey K.;Dhillon H.S.	2023		661-665	
285.	2024 National Conference on Communications, NCC 2024	Physical Layer Design of a 5G NR Base Station	Jeeva Keshav S.;Praneeth K.B.S.D.S.; Prasanth K.B.S.M.D. S.S.;Singh R.;Santhosh Kumar S.R.;Surya R.;Siva P.;D'Silva C.;Bharath P.;Prakash H.;Lakshman S.;Devara R.;Parthiban ;Gundlapalle A.;Singh S.;Aswathy lakshmi P.;Prabha V.;Bhukya K.;Jayapal N.;Saini J.;Yogesh S.;Kr	2024			

			A.;Naveen D.;Ganti R.K.;Budhi raja R.				
286.	2023 IEEE International Conference on Artificial Intelligence and Green Energy, ICAIGE 2023	Real-Time YOLOv7 Based Smart Light Control System	Bharti D.;Vedwal N.;Agarwal A.;Singh B.;Venkate sh K.S.	2023			
287.	2023 IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies, GlobConHT 2023	Recovery of Feasible Solution from Convex Relaxation of AC Optimal Power Flow	Tiwari A.;Mohapat ra A.;Sahoo S.R.	2023			
288.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Reducing Q Factor in a Near Half- Mode Miniaturized Patch Antenna Using Slotted Ground	Sivada M.S.;Srivas tava S.;Harish A.R.	2023			
289.	2024 16th International Conference on COMmunication Systems and NETworkS, COMSNETS 2024	Reducing Search Space of K- Shortest Path Algorithm to Reduce Time Complexity in EON	Upadhyay P.;Patel A.;Singh Y.N.	2024		421-423	
290.	2023 IEEE Microwaves, Antennas, and Propagation Conference,	Reduction of RCS of a Series Fed Linear Array Antenna using Artificial Magnetic	Bandyopad hyay B.;Jaiswal R.K.;Dutta R.K.;Srivas	2023			

	MAPCON 2023	Conductors	tava K.V.				
291.	2023 IEEE International Conference on Energy Technologies for Future Grids, ETFG 2023	Resilience-Driven Distribution Network Optimization with BESS and EV Integration	Singh D.;Gururaj M.V.;Behera L.	2023			
292.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	SIW Cavity-Backed MIMO Antenna with Planar Excitation for Ku-Band Applications	Nare V.C.;Sahoo S.K.;Chaudhary R.K.;Biswas A.	2023			
293.	2023 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics, DISCOVER 2023	SU-MMIMO in Correlated Fading Channel	Kota S.;Vasudevan K.;Kumar L.;Mishra H.B.	2023		304-310	
294.	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings	Simultaneously Learning Robust Audio Embeddings and Balanced Hash Codes for Query-by-Example	Singh A.;Demuyneck K.;Arora V.	2023	2023-June		
295.	2023 14th International Conference on Computing Communication and Networking Technologies,	Small-World Inspired Neural Network (SW-NN) for an Effective and Accurate Diagnosis of Diabetes	Dwivedi S.;Sandhan T.;Pandey O.J.;Hegde R.M.	2023			

	ICCCNT 2023						
296.	2023 National Conference on Communications, NCC 2023	Sniper Localization using Acoustic Signal Processing based on Time of Arrivals	Rakesh R.;Routray G.;Dwivedi P.;Hegde R.M.	2023			
297.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Substrate Engineering for Tuning the Absorption Response of Microwave Absorber	Yadav J.;Mishra A.;Vishwakarma R.;Srivastava K.V.;Ramkumar J.	2023			
298.	2023 11th National Power Electronics Conference, NPEC 2023	Suppressing Synchronization Inrush in a VSI Based 3-Phase Standalone Micro-grid	Ghosh S.;Sensarma P.	2023			
299.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Thermally Switchable Wideband Metamaterial Absorber using Vanadium Dioxide	Vishwakarma R.;Yadav J.;Mishra A.;Verma A.;Srivastava K.V.	2023			
300.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Transparent Band-to-Band Frequency Reconfigurable Microwave Absorber using Vanadium Dioxide based Switchable Ground Plane	Mishra A.;Vishwakarma R.;Yadav J.;Chauhan Y.S.;Verma A.	2023			

301.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Transparent Metamaterial Absorber Fabrication by Pulsed-DC Magnetron Sputtering	Bhattacharya S.;Bandhu H.;Verma A.;Ramkumar J.;Srivastava K.V.	2023			
302.	ACM International Conference Proceeding Series	Tutorial on understanding meta-learning for fast adaptation	Saxena K.R.;Arora V.	2023		312-315	
303.	2023 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2023	Ultra-Thin LIG Film for X band EMI Shielding Applications	Shahnawaz M.;Baskey H.B.;Akhtar M.J.	2023			
304.	7th IEEE Electron Devices Technology and Manufacturing Conference: Strengthen the Global Semiconductor Research Collaboration After the Covid-19 Pandemic, EDTM 2023	Vanadium Dioxide Series and Shunt RF Switches Synthesized using Low Thermal Budget Process	Mishra A.;Ashok P.;Chauhan Y.S.;Verma A.	2023			
305.	IEEE International Conference on Communications	Vehicular Communication Networks with Platooned Vehicles: Modeling and	Pandey K.;Gupta A.K.;Perumalla K.R.;Dhillon	2023	2023-May	3995-4000	

		Analysis	n H.S.				
306.	Proceedings of the 2024 6th International Youth Conference on Radio Electronics, Electrical and Power Engineering, REEPE 2024	Verilog-A Based ANN Large Signal Modeling of Gan Hemts	Ansari M.H.;Jarndal A.;Chauhan Y.S.	2024			
307.	2nd International Conference on Wireless, Antenna and Microwave Symposium, WAMS 2023	Wideband Vertically Polarized Magnetic Dipole Antenna for MIMO Applications	Jaiswal R.K.;Bandyopadhyay B.;Sim C.Y.D.;Srivastava K.V.	2023			
308.	2023 1st International Conference on Intelligent Computing and Research Trends, ICRT 2023	Wind forecasting using ANN	Kumar A.;Verma A.;Soni D.;Chaturvedi G.	2023			
309.	IEEE Power and Energy Society General Meeting	A Unique Energy Management Scheme for Harnessing Electric Vehicle Potential to Improve Grid Resiliency	Singh D.;Maurya M.;Gururaj M.V.;Behra L.	2023	2023-July		
310.	Technical Digest - International Electron Devices Meeting, IEDM	Defying Temperature: Reliable Compute-in-Memory in Monolithic 3D using BEOL	Chatterjee S.;Kumar S.;Sunil A.;De S.;Lehninger D.;Jank	2023			



		Ferroelectric TFT	M.;Kampfe T.;Chauhan Y.S.;Amro uch H.				
311.	2023 IEEE Industry Applications Society Annual Meeting, IAS 2023	Hybrid FFT and HAQSE Based Method for Fast and Accurate Online Harmonic/Interhar monic Estimation in Modern Power System	Srivastava A.K.;Rajpu rohit B.S.;Singh S.N.	2023			
312.	IEEE Power and Energy Society General Meeting	Tightening SOCP relaxation of AC Optimal Power Flow with Linearized Arc- tangent Constraints	Tiwari A.;Mohapat ra A.;Sahoo S.R.	2023	2023-July		
313.	Procedia Computer Science	A Comparative Analysis of Dynamic Scheduling Algorithms for Enhanced Resource Management in Homogeneous and Heterogeneous Fog Computing Environments	Sehgal N.;Bansal S.;Bansal R.K.	2023	230	542-553	
314.	Lecture Notes in Electrical Engineering	Adaptive Neural Network Based Fractional Order Control ofÂ Unmanned	Maurya H.L.;Singh P.;Yogi S.C.;Beher a L.;Verma	2023	1006 LNEE	63-79	

		Aerial Vehicle	N.K.				
315.	Proceedings - IEEE International Symposium on Circuits and Systems	An Automatic Leakage Compensation Technique for Capacitively Coupled Class-AB Operational Amplifiers	Kumar A.;Sahay S.;Mondal I.	2023	2023-May		
316.	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	An Unified Data Compression Framework in an IoT Network: Towards Performance Improvement	Kumar R.;Pandey O.J.;Hegde R.M.	2023			
317.	Lecture Notes in Electrical Engineering	Analysis of Greedy, Semi-greedy, and Random Scheduling Heuristics with DVFS for Heterogeneous Fog Computing Platform	Bansal S.;Bansal R.K.;Sehgal N.	2024	1095	419-429	
318.	Proceedings of Forum Acusticum	DIVERSITY MINIMIZATION TECHNIQUE FOR MULTIPLE MEASUREMENT VECTOR-BASED SUPER-RESOLUTION SPATIAL AUDIO IMAGING	Routray G.;Dwivedi P.;Hegde R.M.	2023			

319.	Lecture Notes in Electrical Engineering	Deadline Laxity and Load Imbalance Analysis for Energy Efficient Greedy, Semi-Greedy and Random Fog Scheduling	Bansal S.;Bansal R.K.;Sehgal N.	2023	1080 LNEE	159-167	
320.	IEEE MTT-S International Microwave Symposium Digest	Design of Spoke Type CSRR based RF Sensor for Non-Destructive Quality Evaluation of Wood	Banerjee A.;Azad P.;Akhtar M.J.	2023	2023-June	955-958	
321.	IEEE Workshop on Statistical Signal Processing Proceedings	Dictionary Learning (DL)-based Sparse Cascaded Channel Estimation in IRS-assisted Terahertz MU-SIMO Systems With Hardware Impairments	Maity P.;Khatri S.;Srivastava S.;Jagannathan A.K.	2023	2023-July	606-610	
322.	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	Enhancing Performance of SM-MIMO VLC System using Liquid Crystal-Based Surfaces	Singh R.P.;Shekawat A.S.;Agham K.;Singh Y.N.	2023			
323.	Proceedings of Forum Acusticum	LEARNING-BASED MASKING FOR RELIABLE SOURCE LOCALIZATION	Dwivedi P.;Routray G.;Hazare S.B.;Hegde R.M.	2023			

		INTERFERED BY UNDESIRE DIRECTIONAL NOISE					
324.	Springer Proceedings in Mathematics and Statistics	Low-Light Image Restoration Using Dehazing-Based Inverted Illumination Map Enhancement	Agrawal I.;Sharma T.;Verma N.K.	2023	413	135-145	
325.	Proceedings of the International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks, WiOpt	Molecular Ad Hoc Network with Passive Receivers	Charitha S.K.T.;Gup ta A.K.;Tyagi L.;Sabu N.V.;Baner jee A.	2023		404-410	
326.	Proceedings of SPIE - The International Society for Optical Engineering	Nanoscale surface topography using low-cost digital holographic microscopy	Pandey D.;Subrah manya K.N.;Gann avarpu R.	2023	12618		
327.	2023 IEEE PES Innovative Smart Grid Technologies - Asia, ISGT Asia 2023	Neural Network Based Fault Location in Power Distribution System	Patel V.;Ghosh S.;Chakrab arti S.;Sharma A.;Pannala S.	2023			
328.	International Symposium on Advanced Networks and Telecommunication	New Quaternary Cross Z- Complementary Sets with Flexible Sequence Lengths	Das S.;Banerjee A.	2023			

	Systems, ANTS						
329.	Frontiers in Optics: Proceedings Frontiers in Optics + Laser Science 2023, FiO, LS 2023	Non-contact topography using quadratic optimization approach in diffraction phase microscopy	Narayan S.K.;Vithin A.V.S.;Ganavarpu R.	2023			
330.	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	On Performance Evaluation of Channel Codes over Satellite Channels	Srivastava S.;Banerjee A.;Gupta A.K.	2023			
331.	Lecture Notes in Electrical Engineering	Power Management Strategy for Battery-Supercapacitor-Based HESS in a Residential Grid-Connected PV System	Kumari N.;Ghosh S.;Singh A.K.;Singh N.K.;Singh S.N.	2024	1099	261-269	
332.	Proceedings - 2023 IEEE Regional Symposium on Micro and Nanoelectronics, RSM 2023	Proposal for stochastic resonance in a ferroelectric-graphene transistor	Ramesh M.;Verma A.;Ajoy A.	2023		17-20	
333.	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	RMBSA Algorithm Using Link Removal Strategy In Multi-Band Elastic Optical Network	Kumari A.;Petale S.;Lohani V.;Subramaniam S.;Bose S.K.;Singh	2023			

			Y.N.				
334.	IEEE Workshop on Statistical Signal Processing Proceedings	Sparse Estimation in mmWave MIMO-OFDM Joint Radar and Communication (JRC) Systems	Jafri M.;Anwer S.;Srivastava S.;Jagannatham A.K.	2023	2023-July	601-605	
335.	IEEE Antennas and Propagation Society, AP-S International Symposium (Digest)	Study on Co-and Cross-Polarization Radiation Patterns of Dipole Antenna	Kumar Jaiswal R.;Kumar Dutta R.;Bhattacharya S.;Sim C.Y.D.;Srivastava K.V.	2023	2023-July	1321-1322	
336.	Accepted in IEEE International Conference on Machine Learning for Communication and Networking (ICMLCN)	Efficient Bidirectional RNNs for Substitution Error Correction in DNA Data Storage	Shubham Srivastava, Krishna Gopal Benerjee, Adrish Banerjee	2024			
337.	29th National Conference on Communications (NCC)	On Secondary Structure Avoiding DNA codes with Reversible and Reversible-Complement Constraints	Krishna Gopal Benerjee, Adrish Banerjee	2023		06-Jan	
338.	2023 IEEE International Symposium on Information Theory (ISIT)	Bounds on Size of Homopolymer Free Codes	Krishna Gopal Benerjee, Adrish Banerjee	2023		809--814	

339.	Intl. Symp on Advanced Materials and Modelling of Complex Materials	TURBO CODED OFDM-OQAM USING HILBERT TRANSFORM	F. Kongoli, F. Marquis, N. Chikhradze , T. Prikhna, O. Adiguzel, E. Aifantis, R. Das, P. Trovalusci	2023			
340.	18th European Conference on Antennas and Propagation (EuCAP)	Polarization Insensitive Broadband Frequency Selective Resorber with Improved Selectivity for Stealth Applications	B. Bandyopad hyay, A. K. Shahi, A. Dileep, M. Saikia and K. V. Srivastava	2024			
341.	All India Manufacturing Technology, Design and Research Conference (AIMTDR)	Fabrication Process Development of a Three Dimensionally Rotated FSS Unit Cell for Wide- Angle Microwave Absorbers	J. Yadav, Kajal Chaudhary, K. V. Srivastava, and J. Ramkumar	2023			
342.	International Conference on Artificial Intelligence and Statistics (AISTATS)	Improved Sample Complexity Analysis of Natural Policy Gradient Algorithm with General Parameterization for Infinite Horizon	W. U. Mondal, and V. Aggarwal	2023			

		Discounted Reward Markov Decision Processes					
343.	AAAI Conference on Artificial Intelligence	Regret Analysis of Policy Gradient Algorithm for Infinite Horizon Average Reward Markov Decision Processes	Q. Bai, W. U. Mondal, and V. Aggarwal	2024			
344.	International Conference on Photonics	Characterization of Single Photon Detector and Its Quenching Circuit Analysis	S. Bose, and U. Das	2024			
345.	IEEE Electron Devices Technology & Manufacturing Conference	Performance Comparison of Transparent and Opaque substrate P3HTCBM Organic Solar Cells	H Anil Kumar Panda; S Sundar Kumar Iyer	2024			
Department of Humanities & Social Sciences							
346.	Mind, Brain, and Consciousness Conference (MBCC 2023)	Examining EEG microstate of Indian raga	Gupta A., Srivastava, C.K., Behera, L., & Bhushan, B.	2023			IIT Mandi
347.	COGSCI 2023	Do men and women process happy and sad music alike?	Gupta, A., Srivastava, C.K., Bhushan, B., & Behera,	2023			Sydney, Australia



			L.				
348.	14th International Conference on Applied Human Factors and Ergonomics (AHFE 2023)	Laterality in Gesture-Based Games	Kumar, M., Bhushan, B., Sameer, A., & Kundal, A.	2023			California, USA
349.	International Congress of Psychological Science	Dynamic expression of basic emotions: Examining the relative advantage of face and body	Mishra, R. & Bhushan, B.	2023			Brussels, Belgium
350.	32 <sup>nd</sup> Annual Convention of the National Academy of Psychology (NAOP)	Depression and anxiety during the COVID-19 pandemic: A network analysis and machine learning study	Ganai, U.J., Sachdev, S., & Bhushan, B.	2023			Ahmedabad University, Ahmedabad

Department of Management Sciences

351.	International Conference on Sustainable Business Management	Completion time minimization in parallel machine scheduling with energy consideration	S. Keshri, A. Khanra	2023			IIT Roorkee
352.	Japan Society for Operations Research, Spring Research Conference 2023	How to dynamically switch dispatching rules in production scheduling	Y. Watabe, Y. Koga, S. Prawesh, A. Khanra, F. Hamid	2023			Miyagi, Japan
353.	ICBAI & ORSI 2023 {56th Annual	Sequential stochastic	A. Khanra, S.	2023			IISC Bangalore

	Convention of Operational Research Society of India(2023-ORSI) & 10th International Conference on Business Analytics and Intelligence(2023-ICBAI)}	assignment problem with eligibility considerations	Shrivastava				
354.	26th Annual International Conference of the Society of Operations management (SOM 2023)	Modified ATC rule for minimizing tardiness and number of tardy jobs in single machine scheduling	S. Keshri, R. Gupta, A. Khanra	2023			Society of Operations Management & IIM Shillong
355.	International Network Optimization Conference (INOC)2024	Addressing nurse preference in nurse assignment and routing problem in dynamic environment	Md. S. Ansari, A. Khanra	2023			Quinn School of Business, University College Dublin, Ireland
356.	POMS (India Chapter)	Infusing healthcare operations with behavioral aspects	A. Abde, Vipin B.	2023			XLRI Jamshedpur, India
357.	ACED 2023, Brics Plus HFE2023 and HWWE2023	Sifting the anatomy of the femoral condyle in total knee replacement	A. Abde	2023			IIM Mumbai, India
358.	POMS -India International Conference-2023	Navigating financial constraints: experimental	Md. M. Khan, Vipin B.	2023			XLRI Jamshedpur, Jharkhand India

		analysis of newsvendors with trade credit and bankruptcy risk in supply chains					
359.	OR65 Annual Conference	Newsvendor and the trade credit financing: an experimental analysis	Md. M. Khan, Vipin B.	2023			University of Bath
360.	POMS (India Chapter) 2023	Warm greeting from the POMS (India chapter) organizing committee,	S. K. Tiwari, V. Ramani	2023			XLRI Jamshedpur
361.	26th Annual International Conference of the Society of Operations management (SOM 2023)	Policy-making under quality alteration	S. K. Tiwari, V. Ramani	2024			IIM Shillong
362.	Vietnam Symposium in Banking and Finance 2023 (VSBF-2023)	Socio-ethnic stratification and propensity of funding	R. Agrawal, B. V. Phani, S. Dutta	2023			Vietnam
363.	International Finance and Accounting Conference	A decentralized credit screening and scoring model for blockchain-based peer-to-peer SME lending	D. Kumar, B. V. Phani, N. Chilamkurti, S. Saurabh, V. Ratten	2023			IIM Jammu, India

364.	International Conference on Intelligent Computing and Its Emerging Application (ICEA 2023)	A blockchain-based decentralized peer-to-peer lending framework for SMEs	D. Kumar, B. V. Phani, N. Chilamkurti, S. Saurabh, V. Ratten	2024			Kaohsiung, Taiwan
365.	ICMIS Bangkok Conference 2023	Generating good solutions for linear program by using genetic algorithm (GA)	R. R. K. Sharma	2023			Chitkara University (Bangkok, Thailand)
366.	ICMIS Bangkok Conference 2023	A new lagrangian relaxation of the LP relaxation of the capacitated plant location problem (CPLP)	R. R. K. Sharma, O. P. Gupta, V. Singh, K. K. Lai	2023			Bangkok
367.	IEOM 2023 Houston conference	Proposing new promising constraint for single-commodity single stage warehouse location problem	R. R. K. Sharma, A. Jha, P. Dubey	2023			
368.	IEOM Houston 2023 conference	A new formulation of QAP	R. R. K. Sharma	2023			
369.	IEOM 2023 Houston Conference	A new approach for solving simple plant location problem (SPLP)	R. R. K. Sharma, A. Jha, A. Raj Singh	2023			
370.	IEEM conference 2023	HRM analytics: with and without (enterprise) social	S. Gupta, R. R. K. Sharma	2023		1037-1041	

		media: few theoretical propositions					
371.	IEEM conference 2023	Relating learning-loops to selected organizational variables	S. Rai, R. R. K. Sharma, J. Ram Kumar	2023		1062-1067	Marina Bay Sands Singapore
372.	IEEM conference 2023	LP (Linear Program) and LDR (Linear Decision Rule) model of aggregate production planning (APP): inclusion of aggregate shortage	V. Singh, R. R. K. Sharma, K. K. Lai	2023		1512-1516	
373.	IEEE International Conference on Industrial Engineering and Engineering Management (IEEM 2023)	Role of enterprise social media and HR analytics in different strategic firms for various HR practices within the organization (Title: - HRM analytics: with and without (enterprise) social media: few theoretical propositions)	S. Gupta, R. R. K. Sharma	2023			Singapore
374.	26th Annual International Conference of the Society of Operations	Strategies to reduce agri-residue burning: a game theoretic study	P. Samal, S.V. Venkataraman	2023			IIM Shillong

	management (SOM 2023)						
375.	International Network Optimization Conference (INOC)2024	Valid inequalities to solve the train stop scheduling problem.	F. Hamid, Y. K. Agarwal	2024			Dublin, Ireland
376.	XVIII International Conference on Public Policy and Management at the Centre for Public Policy (CPP)	Diversity and the timing of road construction: evidence from PMGSY	J. Rajan, M. Bansal, P. P. Singh	2023			
377.	XVIII International Conference on Public Policy and Management at the Centre for Public Policy (CPP)	Alcohol prohibition and intimate partner violence: evidence from a recent policy in India	M. Dixit, S. Mukherjee, J. Rajan	2023			
378.	POMS India International Conference 2023	Handling product return risk: financially constrained manufacture's and platform's optimal financing and operating channel choices retail supply chain management	P. Gautam,	2023			XLRI, Jamshedpur
379.	International Conference on Health Information Technology and Future Prospects -	Revolutionizing phygital healthcare: the pioneering role of information systems in driving	K. Ganji, S. Naskar	2024			Dammam, Saudi Arabia

	(ICHITFP-24)	innovation					
380.	1st International Conference on Artificial Intelligence Applications in Environmental, Social and Governance Indian Institute of Management, Bangalore	Modelling enablers of adoption of “E” in ESG: A grey DEMATEL approach	S. Sharma, V. Giridhar, R. Rao	2023			IIM Bangalore
381.	The 10th Global Social Sciences Graduate Student Hybrid Conference	Rethinking academic environment in higher education institutions: role of student empowerment and psychological ownership	V. Arora, A. Shukla	2023			Hong Kong
382.	ANZAM Annual-36th Conference and Doctoral workshop-2023	Exploring psychological capital in remote work: A qualitative approach	V. Arora, A. Shukla	2023			Newzeland
383.	The INC 2024	Virtual tourism experiences: emerging themes from a semi-supervised seeded LDA model of online reviews	D. Chatterjee, A. Barvah	2024			Netherlands
384.	3rd International Symposium on Disaster Resilience	Enablers for adoption of blockchain	S. Sharma, J. Kumar	2023			AIT, Bangkok

	and Sustainable Development (DRSD 2023)	technology for disaster management: a grey DEMATEL approach					
385.	Water-Energy-Food nexus in the India-UK Symposium on Sustainability	Energy transition	M. Prasad	2023			Kanpur
386.	15th International Green Energy Conference (IGEC-XV) organized by International Association for Green Energy	Unraveling India's solar power success in the last decade and its implications for the next decade	M. Prasad, R. Jindal, A. Bhowmik, R. Saroha, A. Garg	2023			Glasgow
387.	GSCIS Bangkok Conference	How India leveraged solar energy to form an international agency in the global south and contribute southern perspectives to climate change?	M. Prasad, V. Mishra	2023			Bangkok, Thailand
388.	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"	D. Reddy, M. Prasad, R. Jindal	2024			Kanpur
389.	Sustaining Growth with Equity: Sectoral	How solar is driving energy	M. Prasad	2024			Lucknow



	Growth, Trade and Social Protection in the 21st Century	transition?					
390.	INSEE International Conference - Twelfth INSEE Biennial Conference	Low carbon development in India: Role of Solar and wind	M. Prasad, G. Rana, R. Jindal	2024			Haryana
391.	IFIP conference	Factors Influencing the readiness for artificial intelligence adoption in Indian Insurance Organizations	A. Pathak, V. Bansal	2023			IIM Nagpur, India
392.	4th International Conclave on Globalizing Indian Thought-GIT 2023	Trust: in Indian knowledge system and its modern interpretation.	V. Bansal, A. Kulkarni	2023			Mysore
393.	DEA45: International Conference on data envelopment analysis	Environmental performance of coal based thermal generation plants: a two-stage DEA model with undesirable factors	S. Mishra, A. Singh	2023			Surrey Business School, Guildford, UK
394.	Summer School on Integrated Assessment Models (RFF-CMCC European Institute on Economics and the Environment), Italy	Pathways towards Indian Power Sector decarbonization	A. Verma, A. Singh	2023			RFF-CMCC European Institute on Economics and the Environment , Como Lake, Italy
395.	4th Asia Pacific	Barriers to	G. Gupta,	2023			Ho Chi Minh

	International Conference on Industrial Engineering and Operations Management, Vietnam	Sustainable Business Model for Public EV Charging Infrastructure in Developing Nations	A. Singh				City Vietnam
396.	International Symposium on Applied Science 2023	Simulating EV Traffic to Evaluate Sustainability of EV Charging Stations on Highways	G. Gupta, A. Singh	2023			Ho Chi Minh City Vietnam
397.	International Conference on Regional Climate ICRC-CORDEX 2023	Theory and Use of Regional Climate Models	G. Gupta, A. Singh	2023			Trieste, Italy
398.	10th International Conference on Energy and Environment Research Conference (ICEER 2023)	Theory and use of regional climate models in Trieste Italy	G. Gupta, A. Singh	2023			Madrid Spain
399.	Enerday 2024	Leveraging smart meters to analyze price sensitivity under telescopic tariffs in India	A. Singh, M. Sharma	2024			TU Dresden Germany
400.	45th IAEE International Conference Istanbul 2024	Telescopic Tariffs & Indian consumers: a smart meter investigation of elasticity	M. Sharma, A. Singh	2024			Bogazici University Isatanbul, Turkey

401.	IAEE Conference (25-28 June 2024) at Istanbul Turkey	Climate policy modelling scenarios for efficient space cooling in India using appliance inventory approach	A. Verma, A. Singh	2024			Bogazici University Isatanbul, Turkey
402.	45th IAEE International Conference Istanbul 2024	Market-Linked Futures Contract: A Stackelberg Game Theoretic Approach	G. Gupta, A. Singh	2024			Bogazici University Isatanbul, Turkey
403.	45th IAEE International Conference Istanbul 2024	An incentive based regulatory framework for regulated tariff determination of electricity generating plants	S. Mishra, A. Singh	2024			Bogazici University Isatanbul, Turkey
404.	45th IAEE International Conference Istanbul 2024	Benchmarking operational and quality of service parameters for electricity distribution utilities: A three-stage data envelopment analysis approach	Sufia, A. Singh, S. Mishra	2024			Bogazici University Isatanbul, Turkey
405.	45th IAEE International Conference Istanbul 2025	A Strategy for Flexibilization of Thermal Generation under Increasing RE Integration	S. Dolker, A. Singh	2024			Bogazici University Isatanbul, Turkey
406.	International	Navigating the	K. B.	2024			Kyoto,japan

	Conference on Sciences, Engineering & Technologies	critical success factors associated with manufacturing IC chips in Indian semiconductor manufacturing industry	Singh, S. C. Misra				
407.	International Conference on Management & Business Practices	Assessment of success indicators associated with manufacturing IC chips in Indian semiconductors manufacturing industry	K. B. Singh, S. C. Misra	2024			Tokyo, Japan
408.	3rd International Business Analytics Conference (BAC)	Predicting financially constrained firms using text data	J. A. Sarvakar, S. Saurabh	2023			Mumbai
409.	3rd International Business Analytics Conference (BAC),	Bankruptcy prediction using text-based sentiment analysis on Indian firms	S. K. Gupta, S. Saurabh	2023			Mumbai
410.	5th International Conference on Financial Markets and Corporate Finance (ICFMCF-2023)	ESG disclosure and information asymmetry: implications for market efficiency'	P. Yadav, P. Roy, S. Saurabh	2023			Delhi
411.	International Finance and Accounting Conference	A decentralized credit screening and scoring model for blockchain-based peer-to-peer	D. Kumar, B. V. Phani, N. Chilamkurti, S.	2023			IIM Jammu, India

		SME lending	Saurabh, V. Ratten				
412.	International Conference on Intelligent Computing and Its Emerging Application (ICEA 2023)	A blockchain-based decentralized peer-to-peer lending framework for SMEs	D. Kumar, B. V. Phani, N. Chilamkurti, S. Saurabh, V. Ratten	2024			Kaohsiung, Taiwan
413.	International Finance and Accounting Conference	Visualizing annual reports: readability beyond words for stakeholder understanding	N. Sharma, S. Saurabh	2023			IIM Jammu, India
Department of Materials Science and Engineering							
414.	IEEE EDTM	High Temperature Mechanical Properties of Nano-twinned Copper	Gulnaz Parween, Bo-Yan Chen, Dinh-Phuc Tran, Chih Chen, Nilesh Badwe	2024	8	1-3	Bangalore, India
415.	IEEE ECTC	Comparative mechanical behavior of Sn-Bi based low temperature solder alloys under different pretest aging conditions	Sukshitha Achar PL, Colin V Greene, Sean Yenyu Lai, Radu Radulescu, Hannah Fowler, John	2023	73	2218-2222	Orlando, FL, USA

			Blendell, Carol Handwerker, Ganesh Subbarayan , Nilesh Badwe				
416.	MetWaste	A hydrometallurgical perspective of aluminium dross recycling	A Srivastava, A Mesham	2023	<a href="https://doi.org/10.1016/j.matpr.2023.07.225">https://doi.org/10.1016/j.matpr.2023.07.225</a>		Varanasi, India
417.	MetWaste	Removal of encapsulant Ethylene-vinyl acetate (EVA) from solar cells of photovoltaic modules (PVMs)	H K Trivedi, A Meshram, R Gupta	2023	<a href="https://doi.org/10.1016/j.matpr.2023.08.109">https://doi.org/10.1016/j.matpr.2023.08.109</a>		Varanasi, India
418.	8th IEEE Electron Devices Technology & Manufacturing Conference (EDTM),	Device Structure Optimization for Rb <sub>2</sub> SnI <sub>6</sub> -Based Halide Perovskite Solar Cell Using SCAPS	S Aggarwal, T Maiti	2024		1-3	Bangalore, India
419.	METCENT 2023	Development of a Low Silica Calcium Aluminate Based Mould Flux for Casting High Al/Mn Steels	A Nigam and R Sarkar	2023			IIT-BHU, Varanasi, India
420.	METCENT 2023	Solid state reduction of hematite ore using hydrogen at moderate	D Nama and R Sarkar	2023			IIT-BHU, Varanasi, India

		temperatures					
421.	MOLTEN 2024	Effect of C/A ratio on the crystallization behavior and structure of calcium-aluminate based alternative mould fluxes for casting medium and high Mn/Al steels	A Nigam, K Biswas and R Sarkar	2024			Brisbane, Australia
Department of Mathematics & Statistics							
422.	In: A. Campagner et al. (Eds.), IJCRS 2023	Paraconsistent Logics: A Survey Focussing on the Rough Set Approach	B Saha, M Banerjee, S Dutta	2023	LNAI 14481	Pp 105-121	Springer Nature Switzerland AG
Department of Mechanical Engineering							
423.	All India International Manufacturing Technology Design and Research (AIMTDR-2023)	Effect of track and layer overlapping on the residual porosity generation in the selective laser melting of AlSi10Mg	A.K. Mishra, A. Kumar	2023			Varanasi, India
424.	Eighth International Conference on Solidification Science and Processing (ICSSP-8)	Effect of different powder bed thermal conductivity models on the melt pool characteristics and solidification parameters during laser powder bed	A.K. Mishra, A. Kumar	2023			Jodhpur, India

		fusion of Ti6Al4V					
425.	10th International and 50th National Conference on Fluid Mechanics and Fluid Power (FMFP-2023)	Effect of spiral fins on the cooling performance of internal channel cooled turbine blades	V. Yadav, A.K. Mishra, A. Kumar	2023			Jodhpur, India
426.	11th CIRP Global Web Conference (CIRPe 2023)	Comparative analysis of image processing schemes to register motion from video of vibrating cutting tools	V Raizada, HS Rajput, M Law	2024	121	85-90	Online
427.	AIMTDR 23	Estimating Material Deformation Characteristics During Orthogonal Cutting Using Digital Image Correlation	Varun Raizada, Manjesh Singh and Mohit Law	2024	To appear in Springer proceedings	IIT BHU	
428.	AIMTDR 23	Vision-based Runout Measurement Method for End Mills	Naman Verma, Pankaj Wahi, and Mohit Law	2024	To appear in Springer proceedings	IIT BHU	
429.	European Control Conference	Autonomous corrective action in consensus tracking algorithm with unknown delays	S De, SR Sahoo, P Wahi	2023	19	1-6	Bucharest, Romania
430.	NODYCON23	Nonresonant interactions	DD Tandel, A	2023	4	1-2	Rome, Italy



		between a linear system and a light double limit cycle oscillator	Chatterjee, P Wahi				
431.	NODYCON23	Effect of wear flat length on the global dynamics of rotary drilling	K Kumar, P Wahi	2023	4	1-2	Rome, Italy
432.	NODYCON23	Dynamic response of a geometrically nonlinear quarter car model with a Mcpherson suspension traveling on a harmonic road profile	VD Dwivedi, P Wahi	2023	4	1-2	Rome, Italy
433.	9th Thermal and Fluids Engineering Conference (TFEC2024), April 2024, Oregon State University, Corvallis, OR, USA.	Characterisation of propeller slipstream at low Reynolds number for flat plate boundary layer study	Bipin Kumar Mishra and Pranav Joshi	2024	Paper No. TFEC-2024-50710		Oregon State University, Corvallis, OR, USA.
434.	10th International and 50th National Conference on Fluid Mechanics and Fluid Power, December 2023, IIT Jodhpur, India.	Effect of 2D roughness on heat transfer in Rayleigh–Bénard convection	Vinay Tripathi and Pranav Joshi	2023	Paper No. FMFP2023-CFD-010		IIT Jodhpur, India
435.	27th National and 5th International	Effect of aspect ratio on heat	Vinay Tripathi	2023	Paper No. IHMTC-		IIT Patna, India

	ISHMT-ASTFE Heat and Mass Transfer Conference, December 2023, IIT Patna, India	transfer in rotating Rayleigh–Bénard convection at low Rayleigh number	and Pranav Joshi		2023-145		
436.	10 <sup>th</sup> International and 50 <sup>th</sup> National Conference on Fluid Mechanics and Fluid Power (FMFP)	Wake transition for flexible foil flapping in a soap film tunnel	Sarthak Patel and Sachin Y. Shinde	20–22 December 2023		1-6	IIT Jodhpur, India
437.	10 <sup>th</sup> International and 50 <sup>th</sup> National Conference on Fluid Mechanics and Fluid Power (FMFP)	Effect of length of flexible flap on thrust generation for a flexible foil pitching in quiescent fluid	Akshay Menon and Sachin Y. Shinde	20–22 December 2023		1-6	IIT Jodhpur, India
438.	10 <sup>th</sup> International and 50 <sup>th</sup> National Conference on Fluid Mechanics and Fluid Power (FMFP)	Kinematics of flexible splitter filament behind square cylinder in soap film at low Reynolds number	Chandan K. Pothal and Sachin Y. Shinde	20–22 December 2023		1-6	IIT Jodhpur, India
439.	10 <sup>th</sup> International and 50 <sup>th</sup> National Conference on Fluid Mechanics and Fluid Power (FMFP)	Automated extraction of contorted geometry of 2D flexible surfaces from noisy images using Deep Learning models & algorithms	Keshav Birdi and Sachin Y. Shinde	20–22 December 2023		1-7	IIT Jodhpur, India
440.	ASME Turbo. Expo 2023	The Influence of Surface Roughness on Flow Transition by Well-Resolved Large Eddy	Jain I., Wajih I. and Sarkar S.	2023	13C	GT2023-103382, V13CT31A00 8; 11 pages	Hynes Convention Center, Boston, MA, USA

		Simulations					
441.	International Heat Transfer Conference 17 August 14-18, 2023	Sidewall thermal conductance in turbulent Rayleigh-Bénard convection: effect of uninsulated sidewalls	Parvez Alam, Gyanesh Kumar, Umesh Madanan	2023	1-10	Cape Town, South Africa	
442.	Proceedings of the 27th National and 5th International ISHMT-ASTFE Heat and Mass Transfer Conference December 14-17, 2023	Enhancement of free convective heat transfer inside an enclosure with discrete heat sources	Reesav Barik, Parvez Alam, Gyanesh Kumar, Umesh Madanan	2024	847-852	IIT Patna, Bihar, India	
443.	Proceedings of the 27th National and 5th International ISHMT-ASTFE Heat and Mass Transfer Conference December 14-17, 2023	Numerical investigations into the effect of pitch of butterfly inserts on heat transfer enhancement in a minichannel heat sink	Rahul Pandey. Umesh Madanan	2024	13-18	IIT Patna, Bihar, India	
444.	Proceedings of the 27th National and 5th International ISHMT-ASTFE Heat and Mass Transfer Conference December 14-17, 2023	Computer simulations on heat transfer enhancement in a minichannel heat sink using modified butterfly inserts	Aritri Halder, Rahul Pandey, Umesh Madanan	2024	149-154	IIT Patna, Bihar, India	
445.	6 <sup>th</sup> National and International Conference on	Workspace Analysis of Cable-driven	Keval S. Ramani	2023			Raipur

	Machines and Mechanisms (iNaCoMM 2023)	Parallel Robots for Improved Productivity in 3D Printing					
446.	8 <sup>th</sup> International Conference on Advances in Control and Optimization of Dynamical Systems (ACODS 2024)	Intelligent Scan Pattern Optimization for Reduced Thermal Gradients in Metal Additive Manufacturing	Keval S. Ramani, Navankur Shrotriya	2024			Delhi NCR
447.	Proceedings of the 27th National and 5th International ISHMT-ASTFE Heat and Mass Transfer Conference	Understanding Behaviour of Double Diffusive Convection during Seawater Freeze Desalination	Deven Patel, Virkeshwar Kumar, and Sameer Khandekar	2023	1	919-924	Patna
448.	9th International Conference on Advances in Energy Research (ICAER 2023)	C02 hydrate formation kinetics in the presence of TBAB	Ayaj A. Ansari, R. Ravesh, P.K. Panigrahi, and M.K. Das	December 12-14 (2023)		IIT Bombay	
449.	9th Asian Symposium on Computational Heat Transfer and Fluid Flow (ASCHT 2023)	Role of Amino Acid and thermodynamic promoter on the kinetics of C02 hydrate formation	Ayaj A. Ansari, P. K. Panigrahi, Malay Kumar Das	December 4-6, 2023		Thuwal, Saudi Arabia	
Department of Physics							
450.	Laser Science	Broadband uniform-efficiency OAM detector	Suman Karan, MP Van Exter, Anand K	2023		JTu5A. 15	

			Jha				
451.	Laser Science	Structuring two-photon correlation of entangled field: experimental demonstration	Radhika Prasad, Sanjana Wanare, Suman Karan, Mritunjay K Joshi, Abhinandan Bhattacharjee, Anand K Jha	2023		LM5F. 5	
452.	Quantum 2.0	Structured near-field spatial correlations in entangled photons	Radhika Prasad, Sanjana Wanare, Suman Karan, Mritunjay K Joshi, Abhinandan Bhattacharjee, Anand K Jha	2023		QTh2A. 26	
453.	Women in Optics and Photonics in India 2022	External-attention-based deep neural network model for reliable detection of oral cancer from histopathological images	Bhaswati Singha Deo, Mayukha Pal, Asima Pradhan	2023	12638	25-28	
454.	AIP Conference	Ex-vivo study for	Bharat Lal	2023	2768		

	Proceedings	detection of cervical cancer at an early stage using polarized fluorescence spectroscopy	Meena, Kanchan Gehlot, Priyanka Meena, Karishma Meena, Asima Pradhan, Kiran Panday				
455.	Optical Biopsy XXII: Toward Real-Time Spectroscopic Imaging and Diagnosis	Assessment of correlation in refractive indices through Fourier domain Mueller matrix imaging from unstained cervical tissue sections	Nishkarsh Kumar, Asima Pradhan, Nirmalya Ghosh	2024	12836	92-97	
456.	Optical Biopsy XXII: Toward Real-Time Spectroscopic Imaging and Diagnosis	Multifractal analysis for detection of different stages in cervical cancer from colposcopy images	Bhaswati Singha Deo, Mayukha Pal, Prasanta K Panigrahi, Asima Pradhan	2024	12836	107-112	
457.	Women in Optics and Photonics in India 2022	Accurate pre-malignancy diagnosis of cervical tissue through fluorescence	Sumedha Chanda, Nishkarsh Kumar, Asima Pradhan	2023	12638	38-41	

		Mueller matrix imaging					
458.	42 <sup>nd</sup> meeting of the Astronomical Society of India (ASI)	Estimating Hydrodynamic Escape of H <sub>2</sub> -H <sub>2</sub> O atmospheres from Terrestrial Exoplanets Orbiting M-dwarfs	Gopal Hazra, Manuel Güdel, Gwenaël Van Looveren	2024		O65	
459.	Laser Science	Spin-Radial Interaction of Light in the Graded-Azimuthal-Index Fiber	S Srinivasu, H Wanare	2023		JM7A. 98	
460.	APS March Meeting Abstracts	How to Search for Stable Inorganic Compounds More Efficiently	Sean Griesemer, Ruijie Zhu, Koushik Pal, Cheol Park, Logan Ward, Christopher Wolverton	2023		A53. 007	
461.	28 <sup>th</sup> IUPAP International Conference on Statistical Physics, STATPHYS 28th	Emergence in 2D Euler Turbulence, an Isolated System.	Mahendra K. Verma	2023			Tokya, Japan
462.	European Turbulence Conference ETC18	Emergence of Order in 2D Euler Turbulence, an Isolated System	Mahendra K. Verma	2023			Valencia, Spain

463.	Field Theory and Turbulence, ICTS Bangalore	Analysing d-Dimensional Turbulence Using Field Theory	Mahendra K. Verma	2023			Bangalore, India
464.	Indian women scientists association Triennial conference	Non-destructive optical analysis for size determination of small objects	Garima Joshi and R. Vijaya	2023	--	--	Mumbai
465.	International conference Photonics 2023	Plasmonic metasurface mimicking the top surface of colloidal photonic crystal	Vaswati Biswas and R. Vijaya	2023	--	--	Bangalore
466.	International conference Photonics 2023	Planar Optics for Applications Spanning Microwave to Visible Range Wavelengths	R. Vijaya	2023	--	--	Bangalore
467.	Workshop on Recent Advances in Photonics (WRAP) - 2023	Plasmonic metasurface with hexagonal nanobumps on flexible substrate for sensing	Vaswati Biswas and R. Vijaya	2023	--	--	Allahabad
468.	Workshop on Recent Advances in Photonics (WRAP) - 2023	Millimeter-sized lens array on polymer surface	Garima Joshi and R. Vijaya	2023	--	--	Allahabad
469.	Workshop on Recent Advances in	Longitudinal mode control in fiber	Om Prakash,	2023	--	--	Allahabad



	Photonics (WRAP) - 2023	laser ring cavity using saturable absorption in erbium-doped fiber	Deeksha Jachpure and R. Vijaya				
470.	Workshop on Recent Advances in Photonics (WRAP) - 2023	Optical Fibers and Nonlinear Photonics to Build New Low-power Lasers	R. Vijaya	2023	--	--	Allahabad
471.	International conference on Optics, Photonics and Quantum Information (OPTIQ-2023)	Patterned surfaces for photonic sensing and imaging	R. Vijaya	2023	--	--	Kochi
472.	2023 IEEE International Magnetic Conference-Short Papers (INTERMAG Short Papers)	Modelling in-device inference and classification of binary digits using nonlinear dynamics of spin Hall oscillator	John Rex Mohan, Chisato Yamanaka, Ryoyan Feng, Arun Jacob Mathew, Yoji Nakamura, Rohit Medwal, Surbhi Gupta, Rajdeep Singh Rawat, Yasuhiro	2023		1-2	

			Fukuma				
473.	The International Conference on Phenomena in Ionized Gases (ICPIG)	Power balance in an anisotropic dipole plasma: thermodynamical insights	Ayesha Nanda and Sudeep Bhattacharjee	2023	35	226-226	Egmond Ann Zee, The Netherlands
474.	The International Conference on Phenomena in Ionized Gases (ICPIG)	Electric field fluctuations in a cold micro-plasma jet under different flow modes	Deepika Behmani and Sudeep Bhattacharjee	2023	35	134-134	Egmond Ann Zee, The Netherlands
475.	The International Conference on Phenomena in Ionized Gases (ICPIG)	Studies on changes in surface morphology of materials under plasma environment and their potential applications in field emission	Jayashree Majumdar, John H. Booske and Sudeep Bhattacharjee	2023	35	211-211	Egmond Ann Zee, The Netherlands
476.	The International Conference on Phenomena in Ionized Gases (ICPIG)	Potential fluctuation dynamics in cold atmospheric pressure microplasmas	Sudeep Bhattacharjee, Michael Keidar and Deepika Behmani	2023	35	47-47	Egmond Ann Zee, The Netherlands
477.	The International Conference on Phenomena in Ionized Gases (ICPIG)	Controlled guiding and focusing of intense plasma ion beams by micro-glass capillaries beyond the self-focusing limit	Sushanta Barman and Sudeep Bhattacharjee	2023	35	214-214	Egmond Ann Zee, The Netherlands
478.	The International	Molecular	Swati	2023	35	118-118	Egmond Ann

	Conference on Phenomena in Ionized Gases (ICPIG)	dynamics simulations of confined microplasmas at cryogenic temperatures	Swagatika Mishra, Pascal Brault and Sudeep Bhattacharjee				Zee, The Netherlands
479.	Plasma Scholars Colloquium	Thermodynamics of Anisotropic Magnetized Plasma Confined by Dipole Field	Ayesha Nanda	2023	9	62-63	IIT Kanpur, India
480.	Plasma Scholars Colloquium	Frequency Locked Measurement Of Plasma Potential Fluctuations In An Atmospheric Pressure Micro-Plasma Jet	Deepika Behmani	2023	9	64-65	IIT Kanpur, India
481.	Plasma Scholars Colloquium	Comparative Study on the Effects of Surface Structures, Obtained by Ion Beam Irradiation on Field Emission Current, Using Experimentation and Comsol Simulation	Jayashree Majumdar	2023	9	66-67	IIT Kanpur, India
482.	Plasma Scholars Colloquium	Measurement Of Electron Energetics In The Equatorial And Polar Planes	Sargam Hunjan	2023	9	36-37	IIT Kanpur, India

		Of A Compact Dipole Plasma Driven At Steady State					
483.	Plasma Scholars Colloquium	Electric Field Penetration Through a Micro-Aperture in the Vicinity of a Plasma Sheath: Experiments and Theoretical Modeling	Sushanta Barman	2023	9	75-76	IIT Kanpur, India
484.	Plasma Scholars Colloquium	Transport Phenomena and Energy Distribution of Helium Ions in a Microplasma at cryogenic Temperatures: A Molecular Dynamics Study	Swati Swagatika Mishra	2023	9	69-70	IIT Kanpur, India
485.	Asia-Pacific Conference on Plasma Physics	Energy exchange in a compact dipole plasma: thermodynamical investigations through measurements and modelling	Ayesha Nanda	2023	7	19-19	Port Messe Nagoya, Japan
486.	Asia-Pacific	Plasma potential	Sudeep	2023	7	11-11	Port Messe

	Conference on Plasma Physics	fluctuations in cold micro-plasma jets : interactive surface feedback effects on reactive species generation	Bhattacharjee				Nagoya, Japan
487.	Asia-Pacific Conference on Plasma Physics	Spatio-temporal behavior of electric field fluctuations in a cold microplasma jet: modeling and experiments	Deepika Behmani Presented by: Sudeep Bhattacharjee	2023	7	38-38	Port Messe Nagoya, Japan
488.	Asia-Pacific Conference on Plasma Physics	Experimental and Numerical Investigation of Plasma Sheath Electric Field Penetration Through a Micro-aperture	Sushanta Barman Presented by: Sudeep Bhattacharjee	2023	7	39-39	Port Messe Nagoya, Japan
489.	Asia-Pacific Conference on Plasma Physics	Molecular level mechanisms in microplasmas at cryogenic temperatures	Swati Swagatika Mishra Presented by: Sudeep Bhattacharjee	2023	7	40-40	Port Messe Nagoya, Japan
Department of Space Planetary and Astronomical Sciences and Engineering							
490.	<u>2023 International Applied Computational Electromagnetics Society Symposium (ACES)</u>	Design of a Multilayer Microstrip Delay Line on a Water Based Composite	<u>Raghunathan Agaram;</u> <u>Keerthipriya Sathish;</u> <u>Nagaraj H. N;</u> <u>Avinash</u>	2023			Monterey/Seaside, CA, USA

		Dielectric Medium	<u>A. Deshpande;</u> <u>Shiv Sethi</u>				
491.	<u>2023 IEEE Radio and Antenna Days of the Indian Ocean (RADIO)</u>	Development Of A L-Band Four-Element Interferometer At The Mauritius Radio Astronomy Observatory	<u>A. K. Forson; P. Akumu; N. Heeralall-Issur; A. A. Deshpande; P. Wilkinson; K. Golap; B.Y.R. Surnam; E. Varenius</u>	2023			Balaclava, Mauritius
492.	2023 International Conf. on CEE Engineering & their Applications (IC2E3)	A Wideband Single Polarization Radio Receiver-Precursor to Low Frequency Radio Telescope	Raghunathan Agaram, Shiv Sethi, Avinash A Deshpande, KB Raghavendra, Keerthipriya Satish, S Arasi,	2023		1-6	Srinagar Garhwal, India,
493.	<i>2023 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)</i>	Compact Water-based Microstrip Filters	K. Sathish, A. Sathyamurthy, R. Agaram, H. N. Nagaraja, A. Deshpande and S.	2023		1-5	Ahmedabad, India

			Sethi,				
Department of Sustainable Energy Engineering							
494.	7th Joint International Conference on Data Science & Management of Data (11th ACM IKDD CODS and 29th COMAD) (CODS-COMAD 2024), January 04–07, 2024	Robust Shape-regularized Nonnegative Matrix Factorization for Real-time Source Apportionment	M. S. Nanra, S. Saha, A. K. Shukla, S. N. Tripathi, and P. Kar	2024		192–201	Bangalore
495.	International Workshop on Sustainable Materials Development for Energy and Environmental Applications, 30 Oct-1Nov	Materials and Engineering for Electrochemical Green Hydrogen Generation	Lalit M. Pant	2023		63-64	Khajuraho, India
496.	Proc. of 10th IEEE International Conference on Power Systems (ICPS), Dec. 2023	Enhanced Energy Flow Strategy using Fuzzy-FOPI Controller for a Hybrid Energy Storage based Stand-alone DC Microgrid	P. Kumar and P. Bajpai	2023		157	Bangladesh
497.	Proc. of 10th IEEE International Conference on Power Systems (ICPS), Dec. 2023	An Integrated Approach for Fault Detection, Classification and Location in Solar PV Array	S. Rai, P. Kumar and P. Bajpai	2023		207	Bangladesh

498.	IEEE International Transportation Electrification Conference (ITEC-India)	Analysis and Comparison of Partial Power Processing Converter Architectures for EV Fast Charging Station	M. Satapathy, V. Siddhartha, G. Shivakumar, and A. Edpuganti	2023		1-6	Chennai, India
499.	IEEE International Conference on Energy Technologies for Future Grids (ETFG)	Modeling and Control of Dual Active Bridge Converter for EV Charging	V. Siddhartha, G. Shivakumar and A. Edpuganti	2023		1-6	Wollongong, Australia
500.	IECON 2023- 49th Annual Conference of the IEEE Industrial Electronics Society	Review of Fuel Cell Power Converter Topologies for Electric Vehicles	R. P. Priya, G. Shivakumar, V. Siddhartha and A. Edpuganti	2023	DOI:10.1109/IECON51785.2023.10312354	Singapore	
501.	IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation (SEFET)	Solar PV-Assisted Charging System for Electric Vehicles	K. Shahare, V. Siddhartha, M. Satapathy, A. Edpuganti and R. Jindal	2023		1-6	Bhubaneswar, India
502.	17th International Conference on Energy Sustainability, 10-12 July	Energy Storage using High-Performance Microchannel Adsorption System	K. Vyas, V. Arghode, D. G. Pahinkar	2023	<a href="https://doi.org/10.1115/ES2023-105306">https://doi.org/10.1115/ES2023-105306</a>	Washington, DC	



503.	20th International Symposium on Flow Visualization	Experimental Validation of Scanning PIV system via. Investigating Flow Past a Circular Cylinder	Mitanjali, J. Chen, V. Arghode	2023			Delft, Netherlands
504.	27th National and 5th International ISHMT-ASTFE Heat and Mass Transfer Conference	Investigation of Secondary Reflector for a High Flux Solar Simulator (HFSS)	T. Patil, A. Bhesania, R. Kumar, V. Arghode	2023			Patna, Bihar
505.	27th National and 5th International ISHMT-ASTFE Heat and Mass Transfer Conference	Evaluation of Bubble Column Dehumidifier using Magnesium Chloride Desiccant	K. Sharma, D. G. Pahinkar, V. Arghode	2023			Patna, Bihar
506.	Indian Aerosol Science and Technology Association (IASTA), conference, December 12-14, 2023	Ambient air quality Monitoring over Rural areas using Indigenous Technology (AMRIT)	S. N. Tripathi, A. Kumar, N. Godhani, N. Agrawal, P. C. Anandh, A. Sen, V. Arora P. Kar and P. Rai,	2023		359-360	Navi Mumbai
507.	Indian Aerosol Science and Technology Association (IASTA), conference, December 12-14,	Simulations of PM2.5 with WRF-CAMx and Estimating Air quality Social Impact Using Regression analysis	T. V. Ramesh Reddy, S. N. Tripathi, P. Adams and U. Arora	2023		447-448	Navi Mumbai

	2023	over India (EASIUR-India)					
508.	Indian Aerosol Science and Technology Association (IASTA), conference, December 12-14, 2023	Resuspension dynamics of thermophoretically deposited particles via shockwave interaction”,	M. Kumar, S. Kumar, S. Bhati, S. Kumar and S. N. Tripathi	2023		396-397	Navi Mumbai
509.	Indian Aerosol Science and Technology Association (IASTA), conference, December 12-14, 2023	Shock induced resuspension of poly-layered particles	M. Kumar, S. Kumar, S. Bhati, S. Kumar and S. N. Tripathi	2023		464-465	Navi Mumbai
510.	Indian Aerosol Science and Technology Association (IASTA), conference, December 12-14, 2023	Variation of Elemental Source Characterisation and composition in Delhi capital region from pre burning to post burning period	Ashutosh Shukla Akanksha, M. Kumar, V. Singh, D. Ganguly, S.Tiwari, A.Shrivastava and S. N. Tripathi	2023		164- 165	Navi Mumbai
511.	27th National and 5th International ISHMT-ASTFE Heat and Mass Transfer Conference	Desiccant Evaporative Cooling of Data Center driven by its Waste Heat	S. Kumar, D. G. Pahinkar, V. Arghode	2023			Patna, Bihar

512.	10th International and 50th National Conference on Fluid Mechanics and Fluid Power, Dec 20-22, 2023	Shock mitigation using a wire mesh placed outside the shock tube	R. Rajan, A. K. Sahoo, J. Mohd, D. Das, K. Poddar	2023			IIT Jodhpur, India
513.	International Conference on Intelligent Unmanned Systems, July 5-7, 2023	Bio-inspired perforated flapping wings. International Conference on Intelligent Unmanned Systems	D. Poddar, A. Gangwar, D. Das	2023			Adelaide, Australia
514.	40th World Congress of IAHR (International Association of Hydro-Environmental Engineering and Research), 21-25 August 2023	Experimental Investigation of Pressure-Flow Scour Using Particle Image Velocimetry	S. A. Majid, S. Tripathi, D. Das	2023	<a href="https://doi.org/10.3850/978-90-833476-1-5_iahr40wc-p0326-cd">https://doi.org/10.3850/978-90-833476-1-5_iahr40wc-p0326-cd</a>	Vienna	
515.	76th Annual Meeting of the Division of Fluid Dynamics, Nov 19–21, 2023	Laminar liquid jet impinging on a vial creates dancing fluid sheets called water bells	J. Mohd, A. Yadav, and D. Das	2023		X39	Washington, DC
516.	76th Annual Meeting of the Division of Fluid Dynamics, Nov 19–21, 2023	Regime transitions in a laminar film flowing over a cylinder	G. Wadhwa, A. Tambe, J. Mohd, D. Poddar, R. Rajan, G. Mandal, P. Kadam, S.	2023		R23	Washington, DC

			Saha, S. and D. Das				
517.	15th International Green Energy Conference (IGEC-XV), July 10-13, 2023	Unraveling India's solar power success in the last decade and its implications for the next decade	M. Prasad, R. Jindal, A. Bhowmik, R. Saroha and A. Garg	2023		110	Glasgow, UK
518.	ISA Global South Caucus	How India leveraged solar energy to form an international agency in the Global South and contribute Southern perspectives to climate change?	M. Prasad, G. Rana and R. Jindal	2023		88	Bangkok

#### JOURNAL ARTICLES 2023-2024

<b>Department of Aerospace Engineering</b>						
<b>S. No.</b>	<b>Journal Name</b>	<b>Title of the Paper/Publication</b>	<b>Authors</b>	<b>Year</b>	<b>Volume</b>	<b>Page numbers (start to end)</b>
1.	European Journal of Mechanics- B/Fluids }	Characterization and low-order representation of the vortex meandering motion in upswept afterbody wakes	Ranjan, Rajesh and Robinet, J-Ch and Gaitonde, Datta	2024	106	166-180

2.	Sādhanā	Numerical prediction of largely separated flows in low-pressure turbine blades with high loading	Sharma, Kshitij and Ranjan, Rajesh	2024	49	61:1-12
3.	International Journal of Computational Fluid Dynamics	Turbulence Modeling for SWTBLI with Expansion Wave Interference Inside Scramjet Inlets	Prabtani, Kavan M and Ranjan, Rajesh	2023	37(3)	201-217
4.	International Journal of Hydrogen Energy, 2024	Evaluating the Effect of Ignition Energy on Gaseous Hydrogen- Oxygen Detonations	Singh, R.K., Dahake, A., and Singh, A.V.	2024		(accepted)
5.	Proceedings of The Combustion Institute	Experimental investigation of flame morphology and instabilities in turbulent wind- driven flames	Srivastava, A., Sandeep, B.V., and Singh, A.V	2024	Volume 40, (PROCI) . (accepted)	
6.	Combustion Science and Technology	"Local burning behavior of wind-driven flames under the influence of mixed-	Srivastava, A., and Singh, A.V.	2024. (accepted)		

		convective turbulent flow condition				
7.	Shock Waves,	Effect of Initial Conditions on the Inhibition Process of H <sub>2</sub> -O <sub>2</sub> /air Detonations Using CF <sub>3</sub> I, CO <sub>2</sub> , and H <sub>2</sub> O,"	Dahake, A., Singh, R.K., and Singh, A.V.	2024		<a href="https://doi.org/10.1007/s00193-024-01172-7">https://doi.org/10.1007/s00193-024-01172-7</a>
8.	Shock Waves,	Detonation Inhibition using Retardant Weight Analysis for Halogenated Compounds	Singh, R.K., Dahake, A., and Singh, A.V.,	2024		<a href="https://doi.org/10.1007/s00193-024-01175-4">https://doi.org/10.1007/s00193-024-01175-4</a>
9.	Fire Safety Journal	Heat transfer in wind-driven fires stabilized under a mixed- convective turbulent flow environment	Srivastava, A., Kumar, S., and Singh, A.V.	2024	Vol. 142	pp. 104040. <a href="https://doi.org/10.1016/j.firesaf.2023.104040">https://doi.org/10.1016/j.firesaf.2023.104040</a>
10.	Shock Waves	Dual Behavior of Hydrogen Peroxide in Gaseous Detonations.	Dahake, A., Singh, R.K., and Singh, A.V.	2023	Vol. 33	pp. 401-414 <a href="https://doi.org/10.1007/s00193-023-01142-5">https://doi.org/10.1007/s00193-023-01142-5</a>
11.	Trans Indian Natl. Acad. Eng.,.	Numerical Study on NO <sub>x</sub> Emissions from Jet A-air	Iyer, M.S.K., Dahake, A.,	2023	Vol. 8,	pp. 221-233 <a href="https://doi.org/10.1007/s41403-">https://doi.org/10.1007/s41403-</a>

		Detonations	Singh, R.K., and Singh, A.V.			023-00389-9
12.	Trans Indian Natl. Acad. Eng.	Inhibition of H <sub>2</sub> - air Detonations Using Halogenated Compounds	Singh, R. K., Dahake, A., and Singh, A.V.	2023	Vol. 8,	pp. 41-53. <a href="https://doi.org/10.1007/s41403-022-00376-6">https://doi.org/ 10.1007/s41403- 022-00376-6</a>
13.	Trans Indian Natl. Acad. Eng.,	"Nitrogen Oxides Emissions from a Bio-derived Jet Fuel under Detonating Conditions,"	Dahake, A., Singh, R.K., and Singh, A.V.,	2023	Vol. 8,	pp. 69-80. <a href="https://doi.org/10.1007/s41403-022-00378-4">https://doi.org/ 10.1007/s41403- 022-00378-4</a>
14.	Trans Indian Natl. Acad. Eng.,	"NO <sub>x</sub> mitigation and Ignition Promotion Effects of Hydrogen Peroxide Addition to H <sub>2</sub> - air Mixtures,"	Dahake, A., Singh, R.K., and Singh, A.V.,	2023	Vol. 8	pp. 15-26 <a href="https://doi.org/10.1007/s41403-022-00374-8">https://doi.org/ 10.1007/s41403- 022-00374-8</a>
15.	The Aeronautical Journal	An experimental investigation on the aerodynamic characteristics and vortex dynamics of a flying wing	Vivek Kumar, A. C. Mandal and K. Poddar	2024		1-25
16.	Physical Review Fluids	Experiments on the unsteady massive separation	S.Mohamed Aniffa and A.	2023	8	(123901-1) – (123901- 34)

		over an aerofoil	C. Mandal			
17.	J. Fluid Mech	Reduced-order models of aeroacoustic sources for sound radiated in twin subsonic jets	Muthichur, N., Vempati, C., Hemchandra, S.& <u>Samanta, A</u>	2023	972	A33
18.	AIAA Journal	Performance analysis of fluidic injector for supersonic jet manipulation	Arun Kumar Perumal	2023	61	5658-5668
19.	Physics of Fluids	Numerical Investigation of Supercritical Combustion Dynamics in a Multi-Element LOx-Methane Combustor Using Flamelet-Generated Manifold Approach	A. Sharma, A. De, S. Kumar	2023	35	115125
20.	Physics of Fluids,	Performance Analysis of Vertical Axis Wind Turbine Clusters: Effect of Inter-Turbine Spacing and Turbine	D. Reddy G, M. Verma, A. De	2023	35	105122



		Rotation				
21.	Journal of Fluid Mechanics,	Three- dimensional numerical investigation of a transversely oscillating slotted cylinder and its applications in energy harvesting	M. Verma, A. De	2023	967	A10
22.	European Journal of Mechanics- B/Fluids,	Acoustic characteristics of supersonic planar impinging jets	N. Arya, S. Bhaduri, A. De	2023	102	56-79
23.	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	P. Kundu, A. De	2023		<a href="https://doi.org/10.1177/14750902231185807">https://doi.org/10.1177/14750902231185807</a>
24.	Physics of Fluids,	Leading edge bluntness effects on the hypersonic flow over the double-wedge at multiple aft- wedge	A. A. Ray, A. De	2023	35	056116
25.	International Journal of Multiphase Flow,	Understanding the liquid jet break-	B. Bhatia, T. Johny, A.	2023	159	104303

		up in various regimes at elevated pressure using a compressible VOF-LPT coupled framework	De			
26.	Journal of Fluids and Structures,	Leading edge vortex dynamics in airfoils: Effect of pitching motion at large amplitudes	P. K. Seshadri, A. Aravind, A. De	2023	116	103796
27.	Physics of Fluids,	Supersonic flow unsteadiness induced by control surface deflections	S. K. Karthick, D. Bhelave, A. De	2023	35	016105
28.	International Journal of Energy for a Clean Environment	Assessment of Statistical and Kinetics based models for LOx-Methane Green Propellant Combustion	A. Sharma, A. De, S. Kumar	2023		10.1615/InterJEnerCleanEnv 2022045212
29.	International Journal of Energy for a Clean Environment	On the Self-Starting Comparative Performance Evaluation of Darrieus and Hybrid	G. Saini, A. De	2023		10.1615/InterJEnerCleanEnv. 2022044

		Hydrokinetic Rotor				
30.	Physics of Fluids 35, 12606	Multiple regimes of lock-in and hysteresis in free vibration of a rotating cylinder	Tulsi Ram Sahu, Navrose, Sanjay Mittal	2023		
31.	Journal of Fluid Mechanics	Connecting transonic buffet with incompressible low-frequency oscillations on aerofoils.	Moise P., Zauner, M. & Sandham, N. D.	2024	981	A23
32.	Flow, Turbulence and Combustion	On the Co-existence of Transonic Buffet and Separation-Bubble Modes for the OALT25 Laminar-Flow Wing Section	Zauner, M., Moise, P. & Sandham, N. D.	2023	110	1023-1057
33.	AIAA Journal	Transonic buffet characteristics under conditions of free and forced transition	Moise, P., Zauner, M., Sandham, N. D., Timme, S. & He, W.	2023	61	1061-1076
34.	Metals and Materials	Influence of	Aniket	2023	29	2978–3008

	International	Scanning and Building Strategies on the Deformation Behavior of Additively Manufactured AlSi10Mg: CPFEM and Finite Element Studies	Chakrabarty, Pritam Chakraborty, Roopam Jain, Vivek Kr. Sahu, N. P. Gurao, H.N. Bar & Niloy Khutia			
35.	Modelling and Simulation in Materials Science and Engineering	Crystal plasticity based homogenized model for lamellar colonies of near- $\alpha$ and alloys	Syed Mustafa Kazim, Kartik Prasad, Pritam Chakraborty	2023	31(6)	
36.	Mechanics of Materials	A crystal plasticity model of Dynamic Strain Aging for a near- $\alpha$ Ti-alloy	Syed Mustafa Kazim, Kartik Prasad, Pritam Chakraborty	2023	187	
37.	AIAA Journal	Direct-Homogenization-Based Plate Models of Integrated Thermal Protection System for Reusable Launch Vehicle	Nazim Khan, Pritam Chakraborty	2023		1-22

38.	Finite Elements in Analysis and Design	Diffused interface Crystal Plasticity Finite Element Method: Biased mesh generation and accuracy	Jothi Mani Thondiraj, Akhshaya Paranikumar, Devesh Tiwari, Daniel Paquet, Pritam Chakraborty	2024	228	104051
39.	International Journal of Fracture	Coupled crystal plasticity and damage model for micro crack propagation in polycrystalline microstructures	S. Siddharth, Shalvi Singh, Syed Mustafa Kazim, Pritam Chakraborty	2024		
40.	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	Vivek Kumar Sahu, Pritam Chakraborty, Manasij Yadava, Nilesh Prakash Gurao	2024	177	103985
41.	Physical Review Fluids	Plume Surface Interaction during Lunar Landing	Bajpai, A., Bhateja	2024	9	024306 (1-39)

		using a Two-way Coupled DSMC-DEM Approach	A., Kumar, R.			
42.	Physics of Fluids	Analysis of the Interaction of a Shock with Two Square Bubbles Containing Different Gases	Singh, R., Kalluri, A.M., Suman, V.K., Kumar, R.	2024	36	036119 (1-21)
43.	Physics of Fluids	Numerical Study of Gas-Surface Interface Effects due to Transpiration in a Hypersonic Flow over a Blunt Body	Appar, A., Bajpai, A., Kumar, R.	2024	36	016134 (1-20)
44.	Shock Waves	Swept Shock/Boundary Layer Interaction Control using Micro Vortex Generators	Khan,A., Chidambar anathan, M., Verma, S.B., Kumar, R.	2023	33	553-567
45.	Journal of Fluid Mechanics	Shocked Confined-Granular Flow over Obstacles	Jaiswal, A., Khan, A., Kumar, R., Kumar, S.	2023	960	A21 (1-15)

46.	Physics of Fluids	Supersonic Dusty Gas Flow past a Cylinder in Eulerian-Lagrangian Framework	Wangikar, A.U., Bajpai, A., Kumar, R.	2023	35	123323 (1-28)
47.	International Journal of Computational Fluid Dynamics	Investigation of Low and High-Speed Fluid Dynamics Problems using Physics-Informed Neural Network	Joshi, A., Papados, A., Kumar, R.	2023	37(2)	149-166
48.	Journal of Spacecraft and Rockets	Molecular Dynamics Study of Gas-Surface Interactions on beta-Cristobalite Surface	Naspoori, S.K., Appar, A., Kumar, R., Kammara, K.K.	2023	60(6)	1892-1898
49.	Transactions of the Indian National Academy of Engineering	Modeling of Brownian Force on a Spherical Particle Trajectory in Free Molecular Gas Flow Regime	Bose, A., Kumar, R., Chinnappan, A.K.	2023	8	493-507
50.	Physics of Fluids,	Effect of filament length on the flow field of a rotationally	Puja Sunil., Sanjay Kumar and Kamal	2023	35	<a href="https://doi.org/10.1063/5.0171490">https://doi.org/10.1063/5.0171490</a>

		oscillating cylinder with an attached filament	Poddar			
51.	Journal of Fluid Mechanics	Flow past two rotationally oscillating cylinders	Izhar Hussain Khan, Puja Sunil, Soumarup Bhattacharya, Rahul Yadav, Kamal Poddar and Sanjay Kumar	2023	969	<a href="https://doi.org/10.1017/jfm.2023.549">https://doi.org/10.1017/jfm.2023.549</a>
52.	Physical Review Fluids 8	Flow past a rotationally oscillating cylinder near a plane wall	Soumarup Bhattacharyya, Raghavendra Naidu, Kamal Poddar and Sanjay Kumar	2023		<a href="https://doi.org/10.1103/PhysRevFluids.8.094102">https://doi.org/10.1103/PhysRevFluids.8.094102</a>
53.	Physical Review Fluids 8	Experimental investigation of flow past a rotationally oscillating tapered cylinder	Soumarup Bhattacharya, Izhar Hussain Khan, Puja Sunil, Kamal	2023		<a href="https://doi.org/10.1103/PhysRevFluids.8.054103">https://doi.org/10.1103/PhysRevFluids.8.054103</a>



			Poddar and Sanjay Kumar			
54.	Physics of Fluids,	Secondary bubble entrapment in shallow and deep water	Raghavendra Naidu S., Soumarup Bhattacharya, Kamal Poddar and Sanjay Kumar	2023	35	<a href="https://doi.org/10.1063/5.0152028">https://doi.org/10.1063/5.0152028</a>
55.	Journal of Fluid Mechanics	Shocked confined granular flow over obstacles”	Yash Jaiswal, Aqib Khan, Rakesh Kumar and Sanjay Kumar	2023	960	<a href="https://doi.org/10.1017/jfm.2023.211">https://doi.org/10.1017/jfm.2023.211</a>
56.	Physics of Fluids	Effect of acoustic perturbation in the transition of vortex street in a flowing soap film	Akhilesh S. Tiwari and Sanjay Kumar	2023	35	<a href="https://doi.org/10.1063/5.0137038">https://doi.org/10.1063/5.0137038</a>
57.	Physical mechanisms and modeling. Physics of Fluids	Self-excited intermittent thermoacoustic fluctuations in an annular combustor exhibiting flame transient phenomena	Mohan, B. and Mariappan, S.	2023	35	doi:10.1063/5.0172080

58.	Journal of Fluid Mechanics, 975, 2023,	Self-excited vortex-acoustic lock-in in a bluff body combustor: theory and experiment	Britto, A. and Mariappan, S	2023	975	doi:10.1017/jfm.2023.845
59.	Journal of the American Helicopter Society	Dynamic Load Analysis of Motion Converter Ball Bearings in a Pericyclic Transmission	Weinzapfel, N.J., Bolander, N.W., Mathur, T.D., DeSmidt, H., Smith, E.C.	2023	68(4)	42005-42018 (14)
60.	AIAA Journal	Vortical Structures over a Generic Tailless Chined Forebody-Delta Wing	TE Rojas Carvajal T Kumar Guha, M Amitay	2024	62(2)	620-636
61.	AIAA Journal	Control of Reverse Flow over Cantilevered Swept Blades Using Passive Camber Morphing	C Nelson, T Kumar Guha, M Amitay	2024	1-14	
62.	Physical Review Fluids	Interaction of low aspect ratio, cantilevered, chamfered	TE Rojas Carvajal, M	2023	8(5)	054701

		cylindrical pins with a laminar boundary layer	Amitay, TK Guha			
63.	Journal of Fluid Mechanics	Steady and unsteady nature of generic shaped water bells: classifications and scaling	Mohd, J., Yadav, A., and Das, D	2024		
64.	Measurement Science and Technology	Development of a new class of temperature-sensitive paints operating in the green spectrum of light for aerodynamic flow applications.	Chandrasekaran, K.S., Mariappan, S., Das, D. and Singh, A	2024		
65.	Journal of Hydraulic Engineering	Experimental Study of Pressure Flow due to Vertical Contraction Using Particle Image Velocimetry	Majid, S.A., Tripathi, S., Das, D	2023	149	Issue 7
<b>Department of Biological Sciences and Bioengineering</b>						
66.	Biomedical Materials	Assessing the advantages of 3D bioprinting and 3D spheroids in	Majumder N, Roy S, Sharma A, Arora S,	2024 Jan	19(2)	

		deciphering the osteoarthritis healing mechanism using human chondrocytes and polarized macrophages.. 19;19(2):025005	Vaishya R, Bandyopadhyay A, Ghosh S			
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69.	EXCLI journal	The application of bioglass to treat osteoarthritis..;	Jha SK, Kumar B, Paudel KR, Bandyopadhyay A.	2023 Dec 4	22:	1232-4.
70.	Nature Communications.	Intradermal but not intramuscular modified vaccinia Ankara immunizations protect against intravaginal tier2 simian-human immunodeficiency virus challenges in female macaques.	Bollimpelli VS, Reddy PB, Gangadhara S, Charles TP, Burton SL, Tharp GK, Styles TM, Labranche CC, Smith JC, Upadhyay AA, Sahoo A	2023 Aug	8;14(1):	4789
71.	Science Advances	A microbiota and dietary metabolite integrates DNA repair and cell death to regulate embryo viability and aneuploidy during aging	Sonowal R, Swimm AI, Cingolani F, Parulekar N, Cleverley TL, Sahoo A, Ranawade A, Chaudhuri D, MocarSKI ES, Koehler H, Nitsche K.	2023 Feb 24	9(8)	eade8653.
72.	Science signaling	Structure of the photoreceptor	Patil DN, Pantalone S,	2023	16(795)	eadd9539.

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74.	Journal of the Endocrine Society	A pilot randomized clinical trial of intranasal oxytocin to promote weight loss in individuals with hypothalamic obesity	McCormack SE, Wang Z, Wade KL, Dedio A, Cilenti N, Crowley J, Plessow F, Bamba V, Roizen JD, Jiang Y, Stylli J.	2023 May 1	7(5):	bvad037
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		receptor via single amino acid substitution.	Mishra S, Zaidi N, Dalal A, Singh V, Saha S, Mahajan G, Sharma S, Chami M, Banerjee R* and Shukla AK*.			
76.	Science	Molecular insights into atypical modes of $\beta$ -arrestin interaction with seven transmembrane receptors.	Maharana J#, Sano F#, Sarma P#, Yadav M, Longhan D, Stepniewski TM, Chaturvedi M, Ranjan A, Singh V, Saha S, Mahajan G, Chami M, Shihoya W, Selent J, Chung KY, Banerjee R*, Nureki O* and Shukla AK*.	2024 Jan 5	383(6678):	101-108.

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79.	Molecular Cell	A key GPCR phosphorylation motif discovered in arrestin2•CCR5 phosphopeptide complexes.	Isaikina P, Petrovic I, Jakob RP, Sarma P, Ranjan A, Baruah M, Panwalkar V, Maier T, Shukla AK* and Grzesiek S*.	2023 Jun 15	83(12)	2108-2121.e7.
80.	Molecular Cell	Structural snapshots uncover a key phosphorylation motif in GPCRs driving $\beta$ -arrestin activation.,;:	Maharana J#, Sarma P#, Yadav MK, Saha S, Singh V, Saha S, Chami M, Banerjee R* and Shukla AK*.	2023 Jun 15	83(12)	2091-2107.e7.
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84.	Chemical Engineering Journal.	Preventing septic implant failures in osteoporotic hip fractures using antibiotic-loaded functionalized nanocement.	Nikhil A, Qayoom I, Das A, Kumar A.	2024 Apr 15	486	149908
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133.	JMIR Serious Games.	Serious games based on cognitive bias modification and learned helplessness paradigms for the treatment of depression: Design and acceptability study:	Ghosh A, Agnihotri J, Bhalotia S, Sati BK, Agarwal L, Tandon S, Meena K, Raj S, Azad Y, Gupta S, Gupta	2023 May 3	11	e37105.
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140.	Biomaterials Science	Engineering sulfated polysaccharide and silk fibroin based injectable IPN hydrogels with stiffening and growth factor presentation abilities for cartilage tissue engineering..	Dixit A, Mahajan A, Saxena R, Chakraborty S, Katti DS.	2024.	8	2067–2085
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143.	Journal of Nanobiotechnology	Facile synthesis of multi-faceted, biomimetic and cross-protective nanoparticle-based vaccines for drug-resistant Shigella: a flexible platform technology.	Baruah N, Ahamad N, Halder P, Koley H, Katti DS.	2023 Jan 29	21(1):	34.
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150.	Chemical Communications	Synthesis of an enediyne carbon-allotrope surface for photo-thermal degradation of DNA.	Misra SK, Ye M, Moitra P, Dighe K, Sharma A, Daza EA, Schwartz-Duval AS, Ostadhossein F, Pan D.	2023 Nov 9	..;59(90):	13434-7
151.	Biochemical Engineering Journal	Color changing Redox Active Paper Stamps (CoRAPS) for	Kumar P, Misra SK.	2023 Sep 1	198:	109039.

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152.	. ACS Applied Materials & Interfaces	. Nanocarbon-Enforced Anisotropic MusCAML R for Rapid Rescue of Mechanically Damaged Skeletal Muscles.;	Chatterjee N, Misra SK	2023 May 31	15(23):	27533-47
153.	Autophagy	. Use of acidic nanoparticles to rescue macrophage lysosomal dysfunction in atherosclerosis	Zhang X, Misra SK, Moitra P, Zhang X, Jeong SJ, Stitham J, Rodriguez-Velez A, Park A, Yeh YS, Gillanders WE, Fan D	2023 Mar 4;	19(3):	.. 886-903.
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156.	Journal of the Mechanical Behavior of Biomedical Materials	. Multi-length scale strengthening and cytocompatibility of ultra high molecular weight polyethylene bio-composites by functionalized carbon nanotube and hydroxyapatite reinforcement..	Nayak C, Kushram P, Zaidi MA, Singh I, Sen J, Balani K	2023 Apr 1;	140:.	105694
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158.	Journal of Biosciences.	progressive myoclonus epilepsy: Disease mechanism and therapeutic attempts..	Parihar R, Ganesh S. Lafora	2024 Mar;	49(1):	1-5
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160.	Disease Models & Mechanisms.	. Increase in brain glycogen levels ameliorates Huntington's disease phenotype and rescues neurodegeneration in Drosophila.).	Onkar A, Sheshadri D, Rai A, Gupta AK, Gupta N, Ganesh S	2023 Oct	16(10)	
161.	Organic & Biomolecular Chemistry	. An unnatural amino acid modified human insulin derivative for visual monitoring of insulin aggregation..	Sen S, Ali R, Singh H, Onkar A, Bhadauriya P, Ganesh S, Verma S	2023;	21(37):	7561-6.
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163.	Chemistry–An Asian Journal.	. Crystal Patterns of N9/N7 Substituted Purine-CdII/HgII Frameworks and Self-Assembled Nanoring Formation.	Avasthi I, Muthukumar an R, Prajapati RK, Sankararama krishnan R, Verma S	2024 Jan 29:.		e202301119
164.	Chemistry, an Asian journal	. Crystal Engineering and Self-Assembled Nanoring Formation with Purine-CdII/HgII Supramolecular Frameworks..;	Avasthi I, Muthukumar an R, Prajapati RK, Sankararama krishnan R, Verma S	2024 Mar 15	19(6):	e202301119.
165.	Proteins: Structure, Function, and Bioinformatics	Substrate selectivity and unique sequence signatures in SWEET/semiSWE ET homologs of four taxonomic groups: Sequence	Gupta A, Sankararama krishnan R	2024 Jan 19.		

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166.	Proteins: Structure, Function, and Bioinformatics	Molecular dynamics studies of CED-4/CED-9/EG L-1 ternary complex reveal CED-4 release mechanism in the linear apoptotic pathway of Caenorhabditis;	Reddy CN, Sankararama krishnan R	2023 May	91(5):	679-93.
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168.	Advanced Healthcare Materials.	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, Sonkar H, Dewan S, Saxena D, Akhir A, Malhotra N.	2024 Apr 15		2400378

169.	The Journal of Chemical Physics	Spin-dependent electrified protein interfaces for probing the CISS effect	Gupta R, Chinnasamy HV, Sahu D, Matheshwaran S, Sow C, Chandra Mondal P	2023 Jul	14;159(2).	
170.	bioRxiv	Boronic acid derivative inhibits LexA mediated SOS response in Mycobacteria..	Chatterjee C, Mohan GR, Chinnasamy HV, Biswas B, Sundaram V, Srivatsava A, Matheshwaran S	2023:		2023-11.
171.	Dalton Transactions	Antimicrobial efficacy of a hemilabile Pt (ii)–NHC compound against drug-resistant <i>S. aureus</i> and <i>Enterococcus</i> .	Kaur M, Thakare R, Bhattacherya A, Murugan PA, Kaul G, Shukla M, Singh AK, Matheshwaran S, Chopra S, Bera JK	2023	52(7):	1876-84.
172.	Environmental Science and Pollution Research.;	Anti-bacterial and arsenic remediation insights in aqueous systems onto heterogeneous metal oxide (CuO).	Penke YK, Murugan PA, Matheshwaran S, Ramkumar J,	2023 Jan	30(1):	811-22.

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174.	J. Micromechanics and Microengineering	Highly sensitive flexible capacitive pressure sensor with structured elastomeric dielectric layers	Gaurav Rawal and Animangsu Ghatak	2024	34	025012 (1-10)
175.	Biomedical Materials & Devices	Coupled Effect of Axial Velocity of Insertion and Vibration of a Hypodermic Needle Puncturing into a Soft Brittle Solid	KK Kundan, A Ghatak	2024	2	454-460
176.	Langmuir	Enhancement of the Rate of Surface	Nitish	2024	40 (17)	8771-8780

		Reactions by the Elastocapillary Effect	Singh and Animangsu Ghatak			
177.	ACS Applied Materials & Interfaces	Machine-Learning-Driven High-Throughput Screening of Transition-Metal Atom Intercalated g-C <sub>3</sub> N <sub>4</sub> /MX <sub>2</sub> (M= Mo, W; X= S, Se, Te) Heterostructures for the Hydrogen Evolution Reaction	MV Jyothirmai, Roshini Dantuluri, Priyanka Sinha, B Moses Abraham, Jayant K Singh	2024	16 (10)	12437–12445
178.	ACS Applied Materials & Interfaces	Accelerating In Silico Discovery of Metal–Organic Frameworks for Ethane/Ethylene and Propane/Propylene Separation: A Synergistic Approach Integrating Molecular Simulation	Varad Daoo, Jayant K Singh	2024	16 (6)	6971–6987

179.	Phys. Rev. Fluids	Elastic instability in a family of rectilinear viscoelastic channel flows devoid of centerline symmetry	Shailendra Kumar Yadav, Ganesh Subramanian, and V. Shankar	2024	9	013301 (1-19)
180.	Langmuir	Tribological and Rheological Study of Thixotropic Gels of 2D Nanoparticles	Arun Kumar, Vivek Kumar, Yogesh M Joshi, Manjesh Kumar Singh	2024	40 (14)	7310–7327
181.	Rheologica Acta	Can numerical methods compete with analytical solutions of linear constitutive models for large amplitude oscillatory shear flow?	Shivangi Mittal, Yogesh M Joshi, Sachin Shanbhag	2024	63 (2)	145-155
182.	Journal of Rheology	Aqueous Laponite® dispersions are attractive gels, not repulsive Wigner glasses: A critical commentary	Yogesh M Joshi, Shrajesh Patel, Khushboo Suman	2024	68 (1)	145-152

183.	Food Hydrocolloids	Rheological investigation of the network structure in mixed gels of Kappa and Iota Carrageenan	Tulika Bhattacharyya, Chandra S Palla, Dattatraya H Dethe, Yogesh M Joshi	2024	146	109298 (1-15)
184.	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	2024	3 (2)	e76 (1-26)
185.	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	2024	659	629-638



186.	Next Nanotechnology	Synthesis of high-surface-area mesoporous SnO <sub>2</sub> nanomaterials using carbon template	Monsur Islam, Kunal Mondal, Vinay Kishnani, Ankur Gupta, Ashutosh Sharma	2024	5	100057 (1-8)
187.	Physical Review E	Universal scaling law for electrified sessile droplets on a lyophilic surface	Dipin S Pillai, Kirti Chandra Sahu	2024	109 (1)	L013101 (1-4)
188.	Fuel	Exploring optimal total metal loading of Ni <sub>3</sub> Fe/Al <sub>2</sub> O <sub>3</sub> catalyst for CO <sub>2</sub> methanation and its kinetic model	Jitendra Kumar Prabhakar, Pankaj A Apte, Goutam Deo	2024	367	131447 (1-12)
189.	Catalysis Today	O <sub>2</sub> and CO <sub>2</sub> assisted Oxidative Dehydrogenation of Propane using ZrO <sub>2</sub> supported vanadium and chromium oxide catalysts	Rajvikram Singh, Sudhir Charan Nayak, Raghvendra Singh, Goutam Deo	2024	432	114617 (1-8)

190.	Journal of Catalysis	Structures and reactivity of monomeric MoO <sub>x</sub> moieties supported on ZrO <sub>2</sub> (111) slab: A DFT study	Abir Lal Bose, Sayali Ramteke, Goutam Deo, Vishal Agarwal	2024	429	115267 (1-11)
191.	Langmuir	Pair-Interactions of Self-Propelled SiO <sub>2</sub> -Pt Janus Colloids: Chemically Mediated Encounters	Karnika Singh, Harishwar Raman, Shwetabh Tripathi, Hrithik Sharma, Akash Choudhary, Rahul Mangal	2024	40 (14)	7328–7343
192.	RSC Sustainability	Screening and Property Targeting of Thermochemical Energy Storage Materials in Concentrated Solar Power using Thermodynamics-based Insights and Mathematical Optimization	Ishan Bajaj, Xinyue Peng, Christos T Maravelias	2024	2	943-960

193.	Materials Letters	Graphitic carbon nitride-immobilized bacterial endospores: Combined adsorptive- and bio-desulfurization of liquid fuels	Rishabh Anand Omar, Bhaskar Bhaduri, Nishith Verma	2024	361	136117 (1-4)
194.	Environmental Science: Nano	Fe-carbon nanofiber-modified Mo-MOF for the controlled release and translocation of micronutrients in plants	Komal Pandey, Rishabh Anand Omar, Nishith Verma, Gupta Sharan Gupta	2024	11	1597-1611
195.	International Journal of Hydrogen Energy	Efficient spatial charge separation in the Ruddlesden-popper phase-based S-scheme Fe <sub>2</sub> SnO <sub>4</sub> -g-C <sub>3</sub> N <sub>4</sub>	Abhishek Gupta, Umair Alam, Nishith Verma	2024	58 (8)	69-78
196.	Microchemical Journal	Detection of vanillin in food products over Cu - laser induced graphene nanocomposite using the combined	Rahul Gupta, Haider Ali, Nishith Verma	2024	199	109984 (1-10)

		electrochemistry and UV-VIS spectroscopy principles				
197.	Chemical Engineering Science	Denitrification using a novel Ni-CNF/g-C <sub>3</sub> N <sub>4</sub> catalyst and nitrate-enriched wastewater-resourced <i>Achromobacter denitrificans</i>	Shivam Singh Tomar, Rishabh Anand Omar, Bhaskar Bhaduri, Nishith Verma, K.D.P. Nigam	2024	285	119617 (1-10)
198.	Chemical Engineering Journal	Efficient photofixation of nitrogen to ammonia over an S-scheme-based NiSnO <sub>3</sub> -g-C <sub>3</sub> N <sub>4</sub> heterojunction	Rahul Gupta, Umair Alam, Nishith Verma	2024	479	147644 (1-11)
199.	Chemosphere	Construction of a stable S-scheme NiSnO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction on activated carbon fibre for the degradation of glyphosate in water under flow	Arin Pandey, Abhishek Gupta, Umair Alam, Nishith Verma	2024	347	140709 (1-9)

		condition				
200.	Fuel	S-scheme heterojunction-mediated hydrogen production over the graphitic carbon nitride-anchored nickel stannate perovskite	Arin Pandey, Umair Alam, Abhishek Gupta, Jae-Jin Shim, Nishith Verma	2024	355	129538 (1-9)
201.	Industrial & Engineering Chemistry Research	Sustainable Glycerol Carbonate Manufacturing: Process, Synthesis, Design, and Control	Prakhar Srivastava, Aayush Gupta, Nitin Kaistha	2024	63 (4)	1926–1940
202.	Journal of Coatings Technology and Research	Wet coating of calcite with silica nanoparticles in CO <sub>2</sub> environment	Qitong Liu, Payam Hosseini, Raghavendra Ragipani, Bu Wang	2024	21 (1)	423-434
203.	Chemical Engineering Journal,	Ruthenium doping of NASICON electrolyte augments the performance of solid-state sodium-ion batteries	M Dinachandra Singh, Deepak Kumar Gorai, Kumar Brajesh,	2024	489	151330 (1-11)

			Pragati Singh, Vishal Ranawade, Ajay Vijay Shinde, M Jareer, Raju Gupta, Ashish Garg, Vishal Agarwal, Kanwar S Nalwa			
204.	Bioresource Technology Reports,	From trash to treasure: Cattle manure as a potent green corrosion inhibitor	Saikat Mandal, Debdipta Banik, Shreyasi Banik, Devki Nandan, R Ramapanicker, Raju K Gupta, K Mondal	2024	26	101841 (1-15)
205.	Journal of the Indian Chemical Society	Agricultural waste for the production of biobased products for remediation of hydroquinone from wastewater	Praveen Kumar, Raju Kumar Gupta, Vimal Chandra Srivastava, Indra Deo Mall, Urška Lavrenčič	2024	101	101131 (1-9)

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206.	Advanced Materials Interfaces	Polydopamine-Enabled Biomimetic Surface Engineering of Materials: New Insights and Promising Applications	Mohit Saraf, Prateek, Rahul Ranjan, Bhuvaneshwari Balasubramanian, Vijay Kumar Thakur, Raju Kumar Gupta	2024	11 (6)	2300670 (1-28)
207.	Microchemical Journal	Portable graphene oxide modified immunosensor for the detection of Vitamin D3	Surbhi Sharma, Shagun Gupta, Adesh K Saini, Sasanka Chakrabarti, Sant Ram, Raju Kumar Gupta, Komal Shukla, Reena V Saini, Ankur Kaushal	2024	197	109745 (1-9)
208.	Reaction Chemistry & Engineering	Biomass-Based Graphene Aerogel for the Removal of Emerging	Vijayendra Kumar Tripathi, Manish	2024	9	753-776

		Pollutants from Wastewater	Srivastava, Jaya Dwivedi, Raju Kumar Gupta, Lokesh Kumar Jangir, Kumud Malika Tripathi			
209.	Oxford Open Materials Science	Bio-based materials for antimicrobial films in food applications: beyond the COVID-19 pandemic era	Bharath Perumal Pillai, Bhuvaneshwari Balasubramanian, Raju Kumar Gupta, Ankit Tyagi	2024	3 (1)	1-8
210.	Microchemical Journal	Bio-inspired wettability patterning for flexible and wearable electrochemical immunosensors utilizing PDMS-TiO <sub>2</sub> coating	Surya Manisha Inukonda, Siddhartha Panda	2024	200	110425 (1-8)



211.	Biomicrofluidics	Solutio-thermal Marangoni convection in stationary micro-bioreactors on heated substrates: Tool for in vitro diagnosis of PSA	Vidisha Singh Rathaur, Siddhartha Panda	2024	18 (2)	024108
212.	ACS Nano	Generation and Propagation of Flexoelectricity-Induced Solitons in Nematic Liquid Crystals	Xingzhou Tang, Noe Atzin, Ali Mozaffari, Soumik Das, Nicholas L Abbott, Juan J de Pablo	2024	18 (16)	10768–10775
213.	Journal of Physical Chemistry C	Activation of Methane in Vapor and Molten Sodium Catalyst	Nikil Surya R, Sunny Kumar Bhagat, Horia Metiu, Vishal Agarwal	2024	128 (8)	3233–3241
214.	Journal of Catalysis	Structures and reactivity of monomeric MoOx moieties supported on ZrO <sub>2</sub> (111) slab: A DFT study	Abir Lal Bose, Sayali Ramteke, Goutam Deo, Vishal Agarwal	2024	429	115267 (1-11)

215.	Journal of Physical Chemistry C	Increase of the Catalytic Activity of Molten Salts by Doping: Methane Activation	Sajal Kanti Dutta, Baljit Singh, Horia Metiu, Vishal Agarwal	2024	128 (1)	123-128
216.	Phys. Rev. Fluids	<ul style="list-style-type: none"> <li>○ <b>Stability of traveling waves of a thermoviscous liquid film down the outer surface of a cylinder</b></li> </ul>	Garima Singh and Naveen Tiwari	2024	9	024002 (1-21)

		r				
217.	Powder Technology	<ul style="list-style-type: none"> <li>○ Accelerated DEM simulation of the hopper-per-screw feeder and tablet-press feeders using the multi-level coarse-</li> </ul>	<p>Lokeshwar M ahto, Tarun De, Jayanta Chak raborty, Jitendra Kum ar, Anurag Tripa thi, Maitraye Sen , William Kett erhagen</p>	2024	436	119466 (1-17)

		grain ing tech niqu e				
218.	Cytoskeleton	Prediction of the essential intermolecular contacts for side-binding of VASP on F-actin	Fikret Aydin, Harsh wardhan H. Katkar, Alisha Morganthaler, Alyssa J. Harker, David R. Kovar, Gregory A. Voth	2024	1-11	
219.	Journal of Fluid Mechanics	The stress in static granular media under gravity	K. P. Krishnaraj, P. R. Nott	2024	980	A10 (1-20)
220.	Journal of Applied Polymer Science	Reactive oxygen species may cause amyloid beta aggregation by free radical polymerization	Abdul Majid, Sanjeev Garg	2024	141 (14)	e55190 (1-13)
221.	Journal of Catalysis	Suppression of inactive sites in NiMo@	S Arora, S Sivakumar	2024	434	115501 (1-15)

		amorphous alumina catalysts for hydrodesulfurization reaction: Effect of Ga doping				
222.	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	2024	659	629-638
223.	Journal of Materials Chemistry B	Chiral nanomaterial-based approaches for diagnosis and treatment of protein-aggregated neurodiseases: current status and future opportunities	A Bajpai, PK Dwivedi, S Sivakumar	2024	12(8)	1991-2005
224.	Journal of Colloid and Interface Science	Studying kinetics of a surface reaction using elastocapillary effect	N Singh, A Kumar, A Ghatak	2023	645	266-275
225.	The Journal of Physical Chemistry C	MXene-Based Single-Atom Catalysts for Electrochemical	A Athawale, B Moses Abraham, MV	2023	127 (51)	24542-24551

		Reduction of CO <sub>2</sub> to Hydrocarbon Fuels	Jyothirmai, Jayant K Singh			
226.	Materials Chemistry and Physics	Surface hydroxylation mechanism of Zr <sub>2</sub> X (OH) <sub>2</sub> (X= C, N, or B) MXenes: A promising catalyst for CO <sub>2</sub> conversion into formic acid	Vanshree Parey, B Moses Abraham, Jayant K Singh	2023	310	128444 (1-7)
227.	Transactions of the Indian National Academy of Engineering	Integrating Machine Learning and Molecular Simulation for Material Design and Discovery	Priyanka Sinha, D Roshini, Varad Daoo, B Moses Abraham, Jayant K Singh	2023	8 (3)	325-340
228.	The Journal of Physical Chemistry C	Tuning the Switching Probability of Azobenzene Derivatives on Graphite Surface through Chemical Functions	Hariom Birla, Showkat H Mir, Khushboo Yadav, Thomas Halbritter, Alexander Heckel,	2023	127 (34)	17039-17050

			Jayant K Singh, Thiruvancheril G Gopakumar			
229.	The Journal of Chemical Physics	Understanding the role of polymers on the nucleating behavior of water in dilute supercooled solutions	Aindrila Indra, Mangesh Bhendale, Jayant K Singh	2023	159 (4)	044502 (1-13)
230.	ACS Applied Materials & Interfaces	Machine Learning-Driven Discovery of Key Descriptors for CO <sub>2</sub> Activation over Two-Dimensional Transition Metal Carbides and Nitrides	B Moses Abraham, Oriol Piqué, Mohd Amir Khan, Francesc Viñes, Francesc Illas, Jayant K Singh	2023	15 (25)	30117-30126
231.	Journal of Molecular Liquids	Effect of Monovalent and Divalent Salts on the Interfacial and Structural Properties of	Shubham Tiwari, Jayant K Singh	2023	384	122261 (1-11)

		Vapor-Liquid Water Interface in Presence of Sodium Dodecyl Sulfate				
232.	ACS Appl. Energy Materials	Accelerating the Discovery of g-C <sub>3</sub> N <sub>4</sub> -Supported Single Atom Catalysts for Hydrogen Evolution Reaction: A Combined DFT and Machine Learning Strategy	D Jyothirmai, M.V., Roshini, BM Abraham, JK Singh	2023	10 (6)	5598–5606
233.	Langmuir	Molecular Insights on Morphology, Composition, and Stability of Mixed Micelles Formed by Ionic Surfactant and Nonionic Block Copolymer in Water Using Coarse-Grained Molecular	Mangesh Bhendale, Jayant K Singh	2023	39 (14)	5031-5040
234.	Applied Surface Science	Meta-stable initial condition for improving the switching probability in	Khushboo Yadav, Hariom Birla, Showkat H Mir, Thomas	2023	612	155747 (1-8)



		azobenzene derivatives on surface	Halbritter, Alexander Heckel, Jayant K Singh, Thiruvancheril G Gopakumar			
235.	Energy & Fuels	Screening of Hypothetical Metal–Organic Frameworks for Xylene Isomers and Ethylbenzene Separation	Prosun Halder, Jayant K Singh	2023	37 (3)	2230-2236
236.	Soft Matter	Does freezing induces self-assembly of polymers? A molecular dynamics study	Mangesh Bhendale, Aindrila Indra, Jayant K Singh	2023	19 (39)	7570-7579
237.	Dalton Transactions	An amine decorated MOF for direct capture of CO <sub>2</sub> from ambient air	Mayank Gupta, Varad Daoo, Jayant K Singh	2023	52 (33)	11621-11630
238.	Physical Chemistry Chemical Physics	Does supercooled water retain its universal nucleation behavior	Snehahitha Srirangam, Mangesh Bhendale,	2023	25 (32)	21528-21537

		under shear at high pressure?	Jayant K Singh			
239.	Journal of Materials Chemistry A	Fusing a machine learning strategy with density functional theory to hasten the discovery of 2D MXene-based catalysts for hydrogen generation	B Moses Abraham, Priyanka Sinha, Prosun Halder, Jayant K Singh	2023	11 (15)	8091-8100
240.	Physics of Fluids	A new elastic instability in gravity-driven viscoelastic film flow	M Priyadarshi, KV Srita, V Bhaskar, M Khalid, G Subramanian, V Shankar	2023	35 (7)	073104 (1-17)
241.	Journal of Fluid Mechanics	Equilibrium shapes of liquid drops on pre-stretched nonlinear elastic membranes	Vineet Nair, Ishan Sharma, V Shankar	2023	961	A28 (1-28)
242.	Journal of Rheology	Viscoelasticity and rheological hysteresis	Shweta Sharma, V Shankar, Yogesh M Joshi	2023	67 (1)	139-155

243.	Journal of Non-Newtonian Fluid Mechanics	The Method of Harmonic Balance for the Giesekus Model under Oscillatory Shear	Shivangi Mittal, Yogesh M Joshi, Sachin Shanbhag	2023	321	105092 (1-17)
244.	Langmuir	2023 Highlights in Interface Science and Engineering: A Collection of Virtual Special Issues	H Heinz, YM Joshi, H Zeng, HK Tsao, SJA de Beer, E Koos, A Takahara	2023	39 (31)	10711-10714
245.	Journal of Rheology	On the nature of flow curve and categorization of thixotropic yield stress materials	T Bhattacharyya, AR Jacob, G Petekidis, YM Joshi	2023	67 (2)	461-477
246.	The Journal of Chemical Physics	Large amplitude oscillatory shear study of a colloidal gel near the critical state	K Suman, S Shanbhag, YM Joshi	2023	158 (5)	054907 (1-14)
247.	Physics of Fluids	Gel-sol transition of thermoresponsive poly (vinyl alcohol) solution: Validation of the	T Bhattacharyya, K Suman, YM Joshi	2023	35 (2)	027120 (1-15)

		universal critical scaling relations				
248.	Journal of Rheology	Viscoelasticity and rheological hysteresis	S Sharma, V Shankar, YM Joshi	2023	67 (1)	139-155
249.	Langmuir	Reduced-Order Model for Surfactant-Laden Electrified Sessile Droplets	Shreyank Goel, Dipin S Pillai	2023	39 (43)	15177-15188
250.	Langmuir	Electrokinetic Thin-Film Model for Electrowetting: The Role of Bulk Charges	Shreyank Goel, Dipin S Pillai	2023	39 (37)	13076-13089
251.	Soft Matter	Deforming active droplets in viscoelastic solutions	Prateek Dwivedi, Atishay Shrivastava, Dipin Pillai, Naveen Tiwari, Rahul Mangal	2023	19 (21)	3783-3793
252.	Soft Matter	Mode switching of active droplets in macromolecular solutions	Prateek Dwivedi, Atishay Shrivastava, Dipin Pillai, Rahul	2023	19 (22)	4099-4108

			Mangal			
253.	Industrial & Engineering Chemistry Research	Flue Gas Reforming of Methane Over a Ni–Al <sub>2</sub> O <sub>3</sub> Catalyst: A Microkinetic Modeling and Experimental Study	Satyam Gupta, AS Russel, Goutam Deo	2023	62 (46)	19607-19618
254.	Journal of Environmental Chemical Engineering	The rate determining steps and rate equation for the oxidative dry reforming of methane over supported Ni catalyst	AS Russel, Satyam Gupta, Goutam Deo	2023	11(5)	110479 (1-9)
255.	Chemical Engineering Science	Process and catalyst improvements for the dry reforming of methane	Puneet Kumar Chaudhary, Goutam Deo	2023	276	118767 (1-12)
256.	Chemical Engineering Journal	The kinetics of Ni/Al <sub>2</sub> O <sub>3</sub> and Ni-Fe/Al <sub>2</sub> O <sub>3</sub> catalysts for the CO <sub>2</sub> methanation reaction and the reasons for	Jitendra Kumar Prabhakar, Pankaj A Apte, Goutam Deo	2023	471	144252 (1-12)

		promotion				
257.	International Journal of Hydrogen Energy	Effect of metal amount on the catalytic performance of Ni–Al <sub>2</sub> O <sub>3</sub> catalyst for the Tri-reforming of methane	Satyam Gupta, Goutam Deo	2023	48(14)	5478-5492
258.	Communications Physics	Orientalional dynamics and rheology of active suspensions in weakly viscoelastic flows	Akash Choudhary, Sankalp Nambiar, Holger Stark	2023	6	163 (1-11)
259.	Physics of Fluids	Why the reciprocal two-sphere swimmer moves in a viscoelastic environment	Marcel Eberhard, Akash Choudhary, Holger Stark	2023	35	063119 (1-9)
260.	Materials Today Sustainability	A Review on Clay Exfoliation Methods and Modifications for CO <sub>2</sub> Capture Application	Sourav Das, Pratibha Sharma, Mohit Kumar, Raju Kumar Gupta, Himanshu Sharma	2023	23	100427 (1-35)

261.	Carbon	Tailored mesoporous structures of lignin-derived nano-carbons for multiple applications	Lu Yu, Luna Liang, Ishan Bajaj, Kendhl Seabright, David J Keffer, Ilia N Ivanov, Hao Chen, Sheng Dai, Arthur J Ragauskas, Christos T Maravelias, David P Harper	2023	213	118285 (1-11)
262.	Electrochimica Acta	Selective Detection of Bilirubin in Blood Serum Using UV-Vis Spectroelectrochemistry Technique with CeO <sub>2</sub> -CNF/ITO Transparent Electrode	Haider Ali, Rahul Gupta, Nishith Verma	2023	468	143159 (1-8)
263.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Janus resorcinol-formaldehyde-based membrane with opposite wettability for efficient separation	Chintu Sharma, Rahul Gupta, Justin K George, Nishith	2023	676	132246 (1-12)

		of oil and water emulsion	Verma			
264.	Catalysis Letters	Carbon Nanofiber-Bridged Carbon Nitride-Fe <sub>2</sub> O <sub>3</sub> Photocatalyst: Hydrogen Generation and Degradation of Aqueous Organics	Justin K George, Ashish Bhagat, Bhaskar Bhaduri, Nishith Verma	2023	153	419–431
265.	Chemical Engineering Science	Adsorptive Desulfurization of Thiophene using Cu-CNF Slurry in a Coiled Flow Inverter with Recycling	Shivam Singh Tomar, Nishith Verma, Krishna Deo Prasad Nigam	2023	281	119172 (1-8)
266.	Chemical Engineering Science	Synthesis of Internally Carbon-Sourced Carbon Nanofiber Forming Ni-Graphitic Carbon Nitride	Bhaskar Bhaduri, Rishabh A Omar, Nishith Verma	2023	274	118655 (1-11)
267.	Journal of Materials Chemistry A	Degradation of phenolic compounds in	Shiv Singh, Komal Pandey,	2023	11	3942-3948



		wastewater using a conical packed bed microbial fuel cell in continuous flow with recycling	Nishith Verma			
268.	Chemical Engineering Journal	A Sustainable Approach for the Production of Formate from CO <sub>2</sub> using Microalgae as a Clean Biomass and Improvement using Potassium-Doped g-C <sub>3</sub> N <sub>4</sub>	Aradhana Singha, Umair Alam, Priyanka Chakraborty, Basker Sundararaju, Nishith Verma	2023	454	140303 (1-10)
269.	International Journal of Hydrogen Energy	An anthraquinone-integrated S-scheme-based NiTiO <sub>3</sub> -g-C <sub>3</sub> N <sub>4</sub> composite with enhanced hydrogen production activity	Umair Alam, Arin Pandey, Nishith Verma	2023	48	2532-2541
270.	Chemical Engineering Research and Design	Compact process for cumene manufacture: Synthesis, design and control	Prakhar Srivastava, Aayush Gupta, Nitin Kaistha	2023	190	220-232
271.	ACS Physical Chemistry Au	Dynamics of Active SiO <sub>2</sub> -Pt	Harishwar Raman,	2023	3 (3)	279-289

		Janus Colloids in Dilute Poly(ethylene oxide) Solutions	Sneham Das, Hrithik Sharma, Karnika Singh, Shruti Gupta, Rahul Mangal			
272.	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	Prachi Vaid, Adesh K Saini, Raju Kumar Gupta, Eshu Singhal Sinha, Deepak Sharma, Walaa F Alsanie, Vijay Kumar Thakur, Reena V Saini	2023		1-23
273.	Communications Materials	Advanced spectroscopic techniques for characterizing defects in perovskite solar cells	Saurabh Srivastava, Sudhir Ranjan, Lokesh Yadav, Tejasvini	2023	4 (1)	52 (1-29)

			Sharma, Shivani Choudhary, Daksh Agarwal, Anand Singh, Soumitra Satapathi, Raju Kumar Gupta, Ashish Garg, Kanwar S Nalwa			
274.	Fuel	Preparation adjacent Ni-Co bimetallic nano catalyst for dry reforming of methane	Zongpeng Zou, Tao Zhang, Li Lv, Wenxiang Tang, Guoquan Zhang, Raju Kumar Gupta, Yan Wang, Shengwei Tang	2023	343	128013 (1-13)
275.	ACS ES&T Water	Special Issue in ACS ES&T Water: Water Challenges and	Raju Kumar Gupta, Fazlullah Akhtar,	2023	3 (6)	1422-1424

		Solution Opportunities in South Asia, a Rapidly Developing Region of the World	Shameen Jinadasa, Shukra Raj Paudel, M Feisal Rahman			
276.	Materials Today Sustainability	A review on clay exfoliation methods and modifications for CO2 capture application	Sourav Das, Pratibha Sharma, Mohit Kumar, Raju Kumar Gupta, Himanshu Sharma	2023	23	100427
277.	ACS Applied Materials & Interfaces	Functionality Tuning in Hierarchically Engineered Magnetolectric Nanocomposites for Energy-Harvesting Applications	Shashikant Gupta, Chandrachur Chatterjee, Bushara Fatma, Kumar Brajesh, Ritamay Bhunia, N Shara Sowmya, Soumyabrata Roy, Ajit	2023	15 (22)	26563-26575

			Kulkarni, Raju Kumar Gupta, Rajeev Gupta, Pulickel M Ajayan, Ashish Garg			
278.	ACS Sustainable Chemistry & Engineering	Preparing a Zr- Doped CeO <sub>2</sub> Nanorod to Improve the Catalytic Performance of the Ni-Based Catalyst for Dry Reforming of Methane by Enhancing Oxygen Supply	Zongpeng Zou, Tao Zhang, Li Lv, Wenxiang Tang, Guoquan Zhang, Raju Kumar Gupta, Yan Wang, Shengwei Tang	2023	11(19)	7443-7453
279.	Journal of Power Sources	Enroute to sub- 300° C operating Sn–Zn   Pb–Bi liquid metal battery by compositional engineering	M Dinachandra Singh, Chiranjeev Kaushik, Joseph Nishanth, Ajay Vijay Shinde, Raju Gupta, Naveen	2023	564	232855 (1-7)

			Tiwari, Kanwar S Nalwa			
280.	Industrial & Engineering Chemistry Research	Controllable Preparation of Nano-Ni to Eliminate Step Edges of Carbon Deposition on Ni- Based Catalysts for Methane Dry Reforming	Zongpeng Zou, Tao Zhang, Li Lv, Wenxiang Tang, Guoquan Zhang, Raju Kumar Gupta, Yan Wang, Shengwei Tang	2023	62 (15)	6039-6051
281.	Environmental Science and Pollution Research	Highly efficient visible light active doped metal oxide photocatalyst and SERS substrate for water treatment	Samriti, Komal Shukla, Rajeev Gupta, Raju Kumar Gupta, Jai Prakash	2023	30(12)	34054-34068
282.	RSC Sustainability,	N-Doped Graphene Nanosheets-based Optical Nano Switch for The	Vijayendra Kumar Tripathi, Gouri Sankar	2023	1 (9)	2319-2327

		Selective Detection of Guanine and Pb <sup>2+</sup>	Das, Raju Kumar Gupta, Manish Srivastava, Kumud Malika Tripathi			
283.	RSC Sustainability	Devising a people-friendly test kit for overcoming challenges in the assessment of water quality and analysis of water pollution in the river Ganga	Shraddha Chauhan, Anjali Yadav, Premnadh M Kurup, Xia Li, Pradip Swarnakar, Raju Kumar Gupta	2023	1 (3)	418-431
284.	Oxford Open Materials Science	Bio-based materials for antimicrobial films in food applications: beyond the COVID-19 pandemic era	Bharath Perumal Pillai, Bhuvaneshwari Balasubramaniam, Raju Kumar Gupta, Ankit Tyagi	2023	3 (1)	itad016

285.	Chemical Engineering Journal	Design and fabrication of nepenthes alata-inspired sweat collection patch using wettability patterning method	Surya Manisha Inukonda, Ajithkumar M Parambil, Siddhartha Panda	2023	477	147066 (1-16)
286.	Organic Electronics	Field effect characteristics and gas sensing properties of vertically grown PANI nanofibers	Shivam Kumar Gautam, Siddhartha Panda	2023	123	106938 (1-7)
287.	Physica Scripta	NH <sub>3</sub> -detecting room temperature PANI-TiO <sub>2</sub> -based flexible gas sensor with EIS-validated sensing mechanism	Aakanksha Jain, Shivam Kumar Gautam, Siddhartha Panda	2023	98 (9)	095909 (1-18)
288.	Talanta	Highly sensitive Cu-ethylenediamine/PANI composite sensor for NH <sub>3</sub> detection at room	Shivam Kumar Gautam, Siddhartha Panda	2023	258	124418 (1-9)



		temperature				
289.	Chemical Engineering Journal Advances	Analysis of mixed prostate specific antigen and Tween-20 sessile droplets for the reduction in interfacial PSA adsorption	Vidisha Singh Rathaur, Siddhartha Panda	2023	14	100492 (1-12)
290.	Physical Review Letters	Minimal Model of Solitons in Nematic Liquid Crystals	Noe Atzin, Ali Mozaffari, Xingzhou Tang, Soumik Das, Nicholas L Abbott, Juan J de Pablo	2023	131 (18)	188101 (1-6)
291.	Physical Review Letters	Jetting and Droplet Formation Driven by Interfacial Electrohydrodynamic Effects Mediated by Solitons in Liquid Crystals	Soumik Das, Noe Atzin, Xingzhou Tang, Ali Mozaffari, Juan de Pablo, Nicholas L Abbott	2023	131 (9)	098101 (1-6)
292.	The Journal of Physical Chemistry C	Rate-Enhancing Role of Water in	Aditya Goyal, Vishal	2023	127 (46)	22618-22628

		H-BEA and Sn-BEA for Keto-Enol Tautomerization of Acetone: A DFT Study	Agarwal			
293.	Physics of Fluids	Rimming flow in a rotating horizontal cylinder with phase change at the interface	Tarachand Kumawat and Naveen Tiwari	2023	35	102119 (1-21)
294.	Phys. Rev. Fluids	Unsteady granular chute flows at high inertial numbers	Satyabrata Patro, Anurag Tripathi, Sumit Kumar, and Anubhav Majumdar	2023	8	124303 (1-31)
295.	Journal of Fluid Mechanics	Particle force-based density segregation theory for multi-component granular mixtures in a periodic chute flow	Vishnu Kumar Sahu, Soniya Kumawat, Shivani Agrawal and Anurag Tripathi	2023	956	A8 (1-33)
296.	J. Chemical Information and Modelling	Peripheral Linker Mediates Acyl Carrier Protein's Recognition of	Akhil Kumar, Manisha Sharma and Harshawardh	2023	64 (4)	1347-1360

		Dehydratase and Stabilizes Type-I Mycobacterium tuberculosis Fatty Acid Synthase	an H Katkar			
297.	BBA-Reviews on Cancer (Elsevier)	CtBP: A global regulator of balancing acts and homeostases	Alok Jaiswal, Raghvendra Singh	2023	1878	188886 (1-11)
298.	IEEE Sensors Letters	Single Response Electroplated Metal Microwires-Based Microfluidic Electronic Tongue for Taste Discrimination	Sarika Yadav, Rajendra Kumar Sahu, Raj Ganesh Pala	2023	7 (12)	1-4
299.	Energy & Fuels	Unblocking of NiMo Active Sites for Hydrodesulfurization Catalysts: A Study Focused on Inactive Ni <sub>3</sub> S <sub>2</sub> Segregation	Shalini Arora, Sri Sivakumar	2023	37 (12)	8539–8551
300.	ACS Applied Energy Materials	Upconverted Nanophosphors for Increasing Efficiency in a Dye-Sensitized Solar Cell	Yogendra Nath Chouryal, Rahul Kumar Sharma, Neeraj	2023	6 (9)	4934–4941

			Tomar, Neelam Yadav, Heera Lal Kewat, Ishfaq Abdullah Wani, Sandeep Nigam, Praveen Kumar Surolia, Sri Sivakumar, Pushpal Ghosh			
301.	Physical Chemistry Chemical Physics	Tetragonal-zircon BiVO <sub>4</sub> : a better polymorph for the formation of coherent type-II heterostructures for water splitting applications	Rashmi, Md. Majid, Sri Sivakumar	2023	25	27595-27605
<b>Department of Chemistry</b>						
302.	J Comput Chem.	Hydrogen Bond Energy Estimation (H-BEE) in Large Molecular Clusters: A Python Program for Quantum Chemical	Ahirwar M. B., Khire S. S., Gadre S. R., Deshmukh M. M.	2024	45 (5)	274–283

		Investigations.				
303.	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.	2024	10 (3)	907–916
304.	J Phys Chem B.	Disruption Mechanisms of Enveloped Viruses by Ionic and Nonionic Surfactants.	Negi G, Sharma A, Chaudhary M, Parveen N.	2024	128 (3)	768–780
305.	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.	2024	839	141108
306.	Chem Phys.	The Shift of Excitation Spectra at Blue Edge of Emission (BEEms)	Das N, Khan T, Sen P	2024	577	112138

		as a New Methodology to Probe Heterogeneity.				
307.	Resonance.	Kankan Bhattacharyya: A Pioneer of Experimental Research in Ultrafast Spectroscopy.	Sen P, Samanta A.	2024	28 (11)	1621–1636
308.	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.	2024	1307	138039
309.	Chem. Commun.	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.	2024	60 (26)	3527–3530

310.	Chem. Commun.	Peptide-Triggered IL-12 and IFN- $\gamma$ Mediated Immune Response in CD4 + T-Cells against Leishmania Donovanii Infection.	Sharma, S.; Anand, A.; Singh, R.; Singh, R. K.; Verma, S.	2024	60	4092-4095
311.	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.	2024	116	70–84
312.	ACS Chem Neurosci.	Amyloidogenic Propensity of Metabolites in the Uric Acid Pathway and Urea Cycle Critically Impacts the Etiology of Metabolic	Patel M, Jaiswal A, Naseer A, Tripathi A, Joshi A, Minocha T, Kautu A, Gupta S, Joshi K. B,	2024	15 (5)	916–931

		Disorders. 15 (5), 916–931.	Pandey M. K., Kumar R, Dubey K. D., Nazir A, Verma S, Gour N.			
313.	Chem Asian J.	Crystal Engineering and Self-Assembled Nanoring Formation with Purine-Cd II /Hg II Supramolecular Frameworks.	Avasthi I, Muthukumar an R, Prajapati R. K., Sankararama krishnan R, Verma S.	2024	19 (6)	714-900
314.	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.	2024	365	132–160
315.	ACS Infect Dis.	Peptide Dendrimer- Based Antibacterial Agents: Synthesis and Applications.	Paul S, Verma S, Chen Y.-C.	2024	10	1034–1055



316.	Asian J Org Chem.	Enantioselective Vinylogous Mukaiyama-Michael Reaction of Silyl Ketene Acetals to $\alpha,\beta$ -Unsaturated 2-Acyl Imidazoles to Construct 1,7-dioxo Compounds.	Gill M, Das A, Singh V. K.	2024	12	e202300390
317.	Org Lett.	Enantioselective Synthesis of Thiazolopyran Derivatives via a Direct Vinylogous Michael–Oxa - Michael Sequence.	Manna A, Rohilla S, Singh V. K.	2024	26 (1)	280–285
318.	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.	2024	89 (2)	1264–1274

319.	An International Journal.	Brand Equity Determinants and Ecologically Conscious Consumer Behavior in Ridesharing: Serial Mediation and Moderation Analysis. Management of Environmental Quality:	Singh A, Patel A. K, Jaiswal S, Duhan P, Singh V. K.	2024	35 (1)	119–138
320.	Chem. –Eur. J.	Silver-Catalyzed Asymmetric Double Desymmetrization via Vinylogous Michael Addition of Prochiral $\alpha$ , A-Dicyanoalkenes to Cyclopentendiones.	Choudhary K, Joshi H, Rohilla S, Singh V. K.	2024	30	e202304078
321.	The Journal of Physical Chemistry C.	Structural Phase Transitions in Perovskite BaCeO <sub>3</sub> with Data Mining and First-Principles Theoretical Calculations.	Naaz F, Chauhan M. S., Yadav K, Singh S, Kumar A, Prasad D. L. V. K.	2024	128 (11)	4766–4778

322.	Phys Rev B.	Graph Theoretic Analysis of Three-Terminal Quantum Dot Thermocouples: Onsager Relations and Spin-Thermoelectric Effects.	Gupt N, Ghosh S, Ghosh A.	2024	109 (12)	125124
323.	Dalton Trans.	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.	2024	53 (10)	4580–4597
324.	Dalton Trans.	Hyphenation of Lipophilic Ruthenium(ii)- Diphosphine Core with 5-Fluorouracil: An Effective Metallodrug	Saha, A.; Mondal, I.; Kumari, A.; Sonkar, A. K.; Mishra, R.; Kulshreshtha, R.; Patra, A.	2024	53 (4)	1551–1567

		against Glioblastoma Brain Cancer Cells.	K.			
325.	J Mater Chem A Mater.	Prior Oxidation of Ni Substrates Increases the Number of Active Sites in Ni <sub>3</sub> S <sub>2</sub> Obtained by Sulfidation and Enhances Its Multifunctional Electrocatalytic Activity.	Sengeni A, Noda S.	2024	12 (10)	5793–5804
326.	Catal Sci Technol.	How Reliable Are the Overpotentials Reported in Energy Conversion Electrocatalysis?	Sengeni A.	2024	14	2025-2039
327.	Dalton Trans.	Amphoteric Reactivity of a Putative Cu(ii)- m CPBA Intermediate.	Kumar R, Maji A, Biswas B, Draksharapu A.	2024	53 (12)	5401–5406

328.	Angew. Chem. Int. Ed.	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.	2024	63 (3)	202316378
329.	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.	2024	30	e202400079
330.	Chem. –Eur. J.	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.	2024	30 (4)	e202302824
331.	Chem. Commun.	Enantioselective C–H Bond Functionalization under Co(iii)-Catalysis.	Garai B, Das A, Kumar D. V, Sundararaju B.	2024	60 (25)	3354–3369

332.	Angew. Chem. Int. Ed.	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.	2024	63 (6)	e202315005
333.	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	27(13)	e202300744
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461.	J Mol Struct.	Planarity Is One of the Essential Requirements for Fluorescence in Red Fluorescent Protein Chromophore Analogs.	Gowri M. R., Ramanathan G.	2023	1274	134481
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491.	Comput Theor Chem.	Functionalization of Fused Imidazole-Oxadiazole, Triazole-Oxadiazole and Tetrazole-Oxadiazole Skeletons: Search for Stable and Potential Energetic Materials.	Devi R, Maan A, Ghule V. D., Dharavath S.	2023	1229	114352
492.	Mater Chem Phys.	Synthesis, Characterization, Testing, and Detonation Performance Studies of Fused	Banik S, Ghule V. D., Dharavath S.	2023	301	127678

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495.	Inorg Chem.	Poly Tetrazole Containing Thermally Stable and Insensitive Alkali Metal-Based	Rajak R, Kumar P, Ghule V. D. Dharavath S.	2023	62 (21)	8389–8396



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496.	Dalton Transactions.	Facile Synthesis of Thermally Stable Tetrazolo [1,5-b][1,2,4]Triazine Substituted Energetic Materials: Synthesis and Characterization.	Kumar P, Ghule, V. D., Dharavath S.	2023	52 (3)	747–753

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498.	Journal of Applied Water Engineering and Research	Baseflow index assessment for agriculture-industry led Ramganga river basin	Modi, A., Tare, V.	2023	11(3)	pp. 407–421
499.	Water (Switzerland)	Removal of Heavy Metals and Bulk Organics towards Application in	Ofiera, L.M., Bose, P., Kazner,	2024	16(3)	511

		Modified Constructed Wetlands Using Activated Carbon and Zeolites	C.			
500.	Environmental Research Letters	Air pollution from biomass burning in India	S.N. Tripathi., Yadav, S and Sharma K	2024		
501.	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.,	2024	1	283–293
502.	Nature Communication	Local incomplete combustion emissions define the PM 2.5	Bhattu, D., S. N. Tripathi, Bhowmik, H.S., et al	2024	15	

		oxidative				
503.	Science of the Total Environment	Summertime oxidative potential of atmospheric PM <sub>2.5</sub> over New Delhi: Effect of aerosol ageing.	Verma. P.K., Devaprasad M., Dave. J., Meena., R., Bhowmik. S. H., S.N. Tripathi and Rostogi. N	2024	920	
504.	Atmospheric Pollution Research	Role of sources of NMVOCs in O <sub>3</sub> , OH reactivity, and Secondary Organic Aerosol Formation over Delhi.	Yadav. P., Lal. S., S.N. Tripathi, Jain. V and Mandal. T.K	2024	15	
505.	Atmospheric Measurement Techniques	Hybrid Instruments Network Optimization for Air Quality Monitoring	Ajnoti, N., Gehlot, H and S. N. Tripathi	2024	17	1651–1664
506.	Atmospheric Chemistry and Physics	Variation in chemical composition and volatility of oxygenated organic aerosol in different rural, urban, and mountain environments	F. D., Lee, B. H., Song, J., Saathoff, H., Shen, X., Ramisetty, R., S. N. Tripathi, Ganguly, D., Jiang, F., Vallon, M., Schobesberge	2024	24	2607–2624

			r, S., Yli-Juuti, T., and Mohr, C.			
507.	Atmospheric Environment	Evaluation of PM2.5 spatio-temporal variability and hotspot formation using low-cost sensors across urban-rural landscape in Lucknow, India	Madhwal, S., S.N. Tripathi., Bergin, M.H., Bhave, P., B. de Foy., Reddy, T. V. R., Chaudhry, S.K., Jain, V., Garg, N and Lalwani, P.	2023	319	
508.	Science of the Total Environment	Contribution of fossil and biomass-derived secondary organic carbon to winter water-soluble organic aerosols in Delhi, India	Bhowmik. S. H., S.N. Tripathi., et al.,	2023	912	
509.	Science of The Total Environment	Wintertime Oxidation potential of PM2.5 over a big Urban city in the central Indo Gangatic Plain	Singh, A., Patel, A., Satish, R., S.N. Tripathi and Rastogi, N	2023	905	-

510.	Atmospheric Chemistry and Physics	Numerical simulation and evaluation of global ultrafine particle concentrations at the Earth's surface	Kohl, M., Lelieveld, J., Chowdhury, S., Ehrhart, S., Sharma, D., Cheng, Y., S. N. Tripathi., Sebastian, M., Pandithurai, G., Wang, H and Pozzer.	2023	23	13191–13215
511.	Atmospheric Chemistry and Physics	Nighttime NO emissions strongly suppress chlorine and nitrate radical formation during the winter in Delhi	Haslett, S. L., Bell, D. M., Kumar, V., Slowik, J. G., Wang, D. S., Mishra, S., Rastogi, N., Singh, A., Ganguly, D., Thornton, J., Zheng, F., Li, Y., Nie, W., Liu, Y., Ma, W., Yan, C., Kulmala, M., Daellenbach, K. R., Hadden, D., Baltensperger, U., Prevo, T.	2023	23	9023–9036

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512.	Journal of Geophysical Research: Planets	The Low-Altitude Ionosphere of the Ice Giant Planets	Molina-Cuberos, G.J., Witasse, O., Toledo, D and S.N. Tripathi	2023	128	-
513.	Nature Geoscience	Rapid night- time nanoparticle growth in Delhi driven by biomass-burning emissions	Mishra, S., S.N. Tripathi., Kanawade, V. P., Haslett, S.L., Dada, L., Ciarelli, G., Kumar, V., Singh, A., Bhattu, D., Rastogi, N., Daellenbach, K.R., Ganguly, D., Gargava,P., Slowik, J.G., Kulmala, M., Mohr, C., Imad El-Haddad and Prevot, A.S.H.	2023	16	224–230

514.	Atmospheric Chemistry and Physics	Real-time measurements of non-methane volatile organic compounds in the central Indo-Gangetic basin, Lucknow, India: source characterisation and their role in O <sub>3</sub> and secondary organic aerosol formation	Jain, V., S.N. Tripathi., Tripathi, N., Gupta, M., Sahu, L.K., Murari, V., Gaddamidi, S., Shukla, A.K and Prevot, A.S.H	2023	23	3383–3408
515.	Geoscientific Model Development	Towards an improved representation of carbonaceous aerosols over the Indian monsoon region in a regional climate model: RegCM,	Ghosh, S., Dey, S., Das, S., Riemer, N., Giuliani, G., Ganguly, D., Venkataraman, C., Giorgi, F., S.N. Tripathi., Ramachandran, S., Rajesh, T. A., Gadhavi, H., and Srivastava, A. K	2023	16	1–15

516.	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.	2024	930	172506
517.	Atmospheric Environment	Identifying the sources of PM <sub>2.5</sub> at a COALESCE site in the Brahmaputra Valley Region using dispersion normalized PMF	Qadri, A.M., Singh, G.K., Srivastava, V., ...Islam, N., Saikia, B.K., Gupta, T.	2024	327	120501
518.	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.	2024	325	120413
519.	Fuel	Total carbon characterization and polycyclic aromatic hydrocarbon toxicity assessment for particulate	Sahu, V.K., Rajeev, P., Vishwakarma, P., Shukla, P.C., Gupta,	2024	364	131050



		matter produced from Alcohol-Diesel blend	T.			
520.	Science of the Total Environment	Neutral saccharides and hemicellulose over two urban sites in Indo-Gangetic Plain and Central Europe during winter	Rajeev, P., Gupta, T., Marynowski, L.	2024	912	168849
521.	Environmental Geochemistry and Health	Investigating the temporal dynamics of sub-micron particles and particle-bound transition metals in indoor air of a metropolitan city	Dwivedi, S., Zehra, F., Masih, J., Gupta, T., Lawrence, A.	2024	46(2)	49
522.	Atmospheric Environment: X	Source profile of PM <sub>2.5</sub> emissions from different primary sources in the coal capital city Dhanbad, India	Mishra, K.G., Prakashmani, Gupta, T., Izhar, S.	2024	21	100235
523.	Journal of Atmospheric Chemistry	Wintertime trends of particulate-bound polycyclic aromatic hydrocarbons (PAHs) at north-east site of India:	Vishwakarma, P., Rajeev, P., Rabha, S., ...Saikia, B.K., Gupta, T.	2023	80(4)	pp. 251–269

		chemical characterization and source identification				
524.	Science of the Total Environment	PM2.5 pollution exceeding Indian standard over a semi-urban region at eastern IGP: Chemistry, meteorological impact, and long-range transport	Mukherjee, S., Singh, G.K., Dutta, M., ...Gupta, T., Chatterjee, A.	2023	898	165415
525.	Environmental Monitoring and Assessment	A review on potential approach for in silico toxicity analysis of respirable fraction of ambient particulate matter	Gupta, A.D., Gupta, T.	2023	195(10)	1216
526.	International Journal of Environmental Health Research	Health benefits to vulnerable populations by meeting particle-level guidelines inside schools with different ventilation conditions	Rathi, S., Goel, A., Jain, S., Sreeramoju, R.	2024	-	-
527.	Lecture Notes in Civil Engineering	Low-Cost Interventions that	Rathi, S., Goel,	2024	380 LNCE,	pp. 95–102

		Reduce Particle Levels Indoors Are Viable Options to Enhance the Operating Efficiency of Occupants	A., Ola, D.			
528.	Lecture Notes in Civil Engineering	Quantification of Dynamic Ventilation Rates and Assessment of Occupant Thermal Comfort Inside a Naturally Ventilated Hostel Room During Wintertime in North India	Jain, S., Addya, A., Goel, A.	2024	380 LNCE,	pp. 103–117
529.	Nature Sustainability	Author Correction: Reconciliation of energy use disparities in brick production in India (Nature Sustainability, (2023), 6, 10, (1248-1257), 10.1038/s41893-023-01165-x)	Tibrewal, K., Venkataraman, C., Phuleria, H., ...Singh, J., Sinha, B., Goel, A.	2023	6(12)	pp. 1715
530.	Nature Sustainability	Reconciliation of energy use disparities in brick	Tibrewal, K., Venkataraman,	2023	6(10)	pp. 1248–1257

		production in India	C., Phuleria, H., ...Singh, J., Sinha, B , Goel, A.			
531.	Journal of Environmental Management	Reassessing the availability of crop residue as a bioenergy resource in India: A field-survey based study	Kapoor, T.S., Navinya , C., Anurag, G., ...Venkataraman, C., Phuleria, H.C., , Goel, A.	2023	341	118055
532.	Environmental Research Communications	Heating and lighting: understanding overlooked energy-consumption activities in the Indian residential sector	Navinya, C., Kapoor, T.S., Anurag, G., ...Venkataraman, C., Phuleria, H.C.	2023	5(4)	45004
533.	Heart Lung and Circulation	Rationale and Design of a Study to Test the Effect of Personal Protective Aids on Hypertension and Diabetes in People Living With High Levels of Air Pollution—Study Protocol	Barbhaya, D., Tran, J., Khetan, A., ...Chan, C., Goel, A.	2023	32(1)	pp. 124–130

534.	Applied Geochemistry	Solubility product of chromate analogue of hydrogarnet (Ca <sub>3</sub> Al <sub>2</sub> [CrO <sub>4</sub> ] <sub>0.1</sub> 2[O <sub>4</sub> H <sub>4</sub> ] <sub>2.88(s)</sub> ) at 25 °C	Bhattacharya, M., Bandyopadhyay, T., Shrivastava, A., Mohapatra, A.K., Singh, A.	2023	158	105805
535.	Chemosphere	Relative extents, mechanisms, and kinetics of fluoride removal from synthetic groundwater by prevalent sorbents	Ekamparam, A.S.S., Khaitan, H., Nimesh, V., Singh, A.	2023	342	140161
536.	Environmental Engineering Science	Enabling Marginalized Communities to Monitor and Treat Chromium-Polluted Groundwater with Decentralized and Affordable Technologies	Singh, A., Tejavath, R., Bandyopadhyay, T., ...Prakash, M., Sharma, L.M.	2023	40(11)	pp. 584–595
537.	Journal of Water Process Engineering	Household-scale treatment units for reductive removal of hexavalent chromium from	Bandyopadhyay, T., Bhojwani, V., Weigand, H., Sharma,	2023	53	103787

		groundwater	A., Singh, A.			
538.	Environmental Science and Technology	Investigation of Potential Drivers of Elevated Uranium Prevalence in Indian Groundwaters with a Unified Speciation Model	Sujathan, S., Singh, A.	2023	57(5)	pp. 1970–1986
539.	Groundwater for Sustainable Development	Identification of potential artificial groundwater recharge sites in an alluvial setting: A coupled electrical resistivity tomography and sediment characterization study	Mishra, U., Mohapatra, A.K., Mandal, A., Singh, A.	2023	20	100875
540.	New Journal of Chemistry	Ultra-fast and robust capture of fluoride by an amino terephthalic acid-facilitated lanthanum-based organic framework: insight into performance and mechanisms	Singh, N., Srivastava, I., Mohapatra, A.K., ...Dwivedi, J., Sankararamkrishnan, N., Singh, A.	2023	47(4)	pp. 2026–2039

541.	Environmental Impact Assessment Review	A novel approach for environmental impact assessment of road construction projects in India	Chaudhary, A., Akhtar, A.	2024	106	107477
542.	People and Nature	The role of nature's contributions to people in sustaining international trade of agricultural products	Marques, A., Bonn, A., Castro, A.J., ...Wille men, L., Schulp, C.J.E.	2024	6(2)	pp. 410–421
543.	Integration	Design of high performance energy efficient CMOS voltage level shifter for mixed signal circuits applications	Kumar, C.I., Chaudhary, A., Upadhyaya, S.	2024	95	102133
544.	Environmental Science and Technology	Recent Developments and Challenges in Projecting the Impact of Crop Productivity Growth on Biodiversity Considering Market-Mediated	Chaudhary, A., Hertel, T.	2024	58(6)	pp. 2627–2635

		Effects				
545.	Sadhana - Academy Proceedings in Engineering Sciences	An improved teaching learning based optimization method to enrich the flight control of a helicopter system	Chaudhary, A., Bhushan, B.	2023	48(4)	222
546.	One Health	Developing One Health surveillance systems	Hayman, D.T.S., Adisa smito, W.B., Almuh airi, S., ...Zhou, L., Koopman s, M.	2023	17	100617
547.	Conservation Biology	Indicators to monitor the status of the tree of life	Gumbs, R., Chaudhar y, A., Daru, B.H., ...Scher son, R.A., Owen, N.R.	2023	37(6)	e14138
548.	PLoS Pathogens	Prevention of zoonotic spillover: From relying on response to reducing the risk at source	Markotter, W., Mettenlei ter, T.C., Adisas mito, W.B., ...Smol enskiy, V., Zhou, L.	2023	19(10 October)	e1011504



549.	International Journal of Pattern Recognition and Artificial Intelligence	Self-Balancing and Position Control of a Balancer System Using a Pattern-Based Intelligent Optimization Method	Chaudhary, A., Bhushan, B.	2023	37(12)	2357011
550.	Indian Pediatrics	Sustainable Food Systems: The Way Forward in the Indian Context	Chaudhary, A.	2023	60(8)	pp. 626–629
551.	ASCE Journal of Environmental Engineering	Assessing Uncertainties in Mechanistic Modeling of Quality Fluctuations in Drinking Water Distribution Systems	Abhijith, G, R., and Ostfeld, Avi	2024	150	04023091-1 - 04023091-13
552.	ASCE Journal of Pipeline Systems Engineering and Practice	Discussion of “Analysis of Intermittent Water Distribution Networks Using a Dummy Emitter Device at Each Demand Node”	Abhijith, G, R., and Mohan, S	2024	15	07024003-1 - 07024003-3
553.	Journal of Materials in Civil Engineering	Development and evaluation of an indigenous natural	Behera, P.K., Dobhal, H., Misra, S.	2024	36(5)	6024001

		corrosion inhibitor for steel in cementitious systems				
554.	Journal of Construction Engineering and Management	Framework for Estimating Quality-Related Incentive and Disincentive in Construction Projects	Garg, S., Misra, S.	2023	149(5)	4023018
555.	IABSE Congress, New Delhi 2023: Engineering for Sustainable Development, Report	Image analysis of concrete surface for investigating the influence of aggregate distribution and load induced damage on the chloride permeability of concrete measured using RCPT (ASTM C1202)	Mishra, P., Sarfaraz, A., Misra, S., Harish, K.V.	2023	-	pp. 1364–1376
556.	IABSE Congress, New Delhi 2023: Engineering for Sustainable Development, Report,	Current Knowledge, Challenges, and Facilitating Factors from the National Survey on Sustainability in the Building and Construction	Srivastava, S., Hazaree, C., Iyer-Raniga, U., Misra, S.	2023	-	pp. 1168–1175

		(B&C) Sector				
557.	IEEE Geoscience and Remote Sensing Letters	Model-Based Nine-Component Scattering Matrix Power Decomposition	Malik, R., Singh, G., Dikshit, O., Yamaguchi, Y.	2024	21	pp. 1–5, 4008105
558.	Current Science	National Geospatial Policy: perspectives on height systems, vertical datums and gravimetric geoid modelling in India	Goyal, R., Dikshit, O.	2024	126(3)	pp. 309–319
559.	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.	2024	-	-
560.	Geophysical Journal International	Interseismic slip rate and fault geometry along the northwest Himalaya	Sharma, Y., Pasari, S., Ching, K.-E., ...Kato, T., Dikshit, O.	2023	235(3)	pp. 2694–2706
561.	Earth, Planets and Space	Favorable locations for new VGOS	Dhar, S., Glaser,	2023	75(1)	47

		antennas in India depending on the assessment of geodetic parameters and environmental factors	S., Heinkelmann, R., ...Balasubramanian, N., Dikshit, O.			
562.	Scientific Reports	Mapping tropical forest aboveground biomass using airborne SAR tomography	Ramachandran, N., Saatchi, S., Tebaldini, S., d'Alessandro, M.M., Dikshit, O.	2023	13(1)	6233
563.	Journal of Surveying Engineering This link is disabled.	Investigating the Congruence between Gravimetric Geoid Models over India	Goyal, R., Claessens, S.J., Featherstone, W.E., Dikshit, O.	2023	149(3)	4023005
564.	Current Science	National geospatial policy: status of the Indian geodetic data	Goyal, R., Dikshit, O., Tiwari, A.	2023	125(1)	pp. 18–25
565.	Remote Sensing	General Five-Component Scattering Power Decomposition with Unitary	Malik, R., Singh, G., Dikshit, O., Yamaguchi, Y.	2023	15(5)	1332

		Transformation (G5U) of Coherency Matrix				
566.	Advances in Scalable and Intelligent Geospatial Analytics: Challenges and Applications,	A Survey of Machine Learning Techniques in Forestry Applications Using SAR Data	Ramachandran, N., Sarma, K.K., Chutia, D., Dikshit, O.	2023	-	pp. 373–398
567.	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.	2024	-	-
568.	Remote Sensing	Benchmarking Geometry-Based Leaf-Filtering Algorithms for Tree Volume Estimation Using Terrestrial LiDAR Scanners	Ali, M., Lohani, B., Hollaus, M., Pfeifer, N.	2024	16(6)	1021
569.	SN Computer Science	pCTFusion: Point Convolution-Transformer Fusion with Semantic Aware	Kuriyal, A., Kumar, V., Lohani, B.	2024	5(3)	272

		Loss for Outdoor LiDAR Point Cloud Segmentation				
570.	Earth Science Informatics	Powerline extraction from aerial and mobile LiDAR data using deep learning	Kumar, V., Nandy, A., Soni, V., Lohani, B.	2024	-	-
571.	IEEE Transactions on Geoscience and Remote Sensing	Benchmarking Deep Learning Architectures for Urban Vegetation Point Cloud Semantic Segmentation From MLS	Aditya, A., Lohani, B., Aryal, J., Winter, S.	2024	62	pp. 1–14, 4405214
572.	2023 IEEE India Geoscience and Remote Sensing Symposium, InGARSS 2023	Hybrid Approach for Precise Volume Estimation of Buttressed Trees: Poisson Surface Reconstruction and TreeQSM Integration	Ali, M., Lohani, B., Hollaus, M., Pfeifer, N.	2023	-	-
573.	International Association of Geodesy Symposia	A Benchmarking Measurement Campaign to Support Ubiquitous Localization in GNSS Denied and	Retscher, G., Kealy, A., Gikas, V., ...Koppanyi, Z., Grejner-	2023	152	pp. 123–128

		Indoor Environments	Brzezinska, D.			
574.	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.	2024	-	-
575.	Journal of Environmental Management	Impact of calibrating a low-cost capacitance-based soil moisture sensor on AquaCrop model performance	Soham Adla, Felix Bruckmaier, Leonardo F. Arias-Rodriguez, Shivam Tripathi, Saket Pande, and Markus Disse	2024	353	120248-1 to 16
576.	ACM International Conference Proceeding Series,	Short-Term Fog Forecasting using Meteorological Observations at Airports in North India	Sharma, S., Bajaj, K., Deshpande, P., Bhattacharya, A., Tripathi, S.	2024	-	pp. 307–315

577.	Urban Climate	Event-based fog climatology and typology for cities in Indo-Gangetic plains	Deshpande, P., Meena, D., Shivam Tripathi, Bhattacharya, A., Verma, M.K.	2023	51	101642
578.	Journal of Hydraulic Engineering	Experimental Study of Pressure Flow due to Vertical Contraction Using Particle Image Velocimetry	Sofi Aamir Majid, Shivam Tripathi, and Debopam Das	2023	149(7)	4023016-1 to 14
579.	Proceedings of the IAHR World Congress,	Experimental Investigation of Pressure-Flow Scour using Particle Image Velocimetry	Majid, S.A., Tripathi, S., Das, D.	2023	-	pp. 2435–2443
580.	Lecture Notes in Civil Engineering	Numerical Simulation of Pressure Flow Due to Vertical Contraction on a Rigid Bed	Majid, S.A., Tripathi, S.	2023	314 LNCE	pp. 139–149
581.	Lecture Notes in Civil Engineering	Regionalization of Multiplicative Random Cascade Model Parameter for Awash River	Dabesa, A., Tripathi, S.	2023	313 LNCE	pp. 447–456



		Basin, Ethiopia				
582.	Lecture Notes in Civil Engineering	Development of a Fog Index to Study Relationships Between Fog and Climate Variables	Paurwal, R., Tripathi, S., Bhattacharya, A.	2023	313 LNCE	pp. 437–446
583.	Environmental Technology (United Kingdom)	Potential of algal oil production from secondary treated sewage: a study using <i>Chlorella vulgaris</i> and synthetic wastewater	Chatterjee, S., Guha, S.	2023	-	-
584.	Sustainability (Switzerland)	Modeling Soil Hydraulic Properties Using Dynamic Variability of Soil Pore Size Distribution	Kumar, S., Ojha, R.	2023	15(13)	26
585.	Weather, Climate, and Society	Flash Drought Typologies and Societal Impacts: A Worldwide Review of Occurrence, Nomenclature, and Experiences of Local Populations	Walker, D.W., Vergopolan, N., Cavalcante, L., ...Singh, V., Xiang, Z., Tushar Apurv	2024	16(1)	pp. 3–28
586.	Journal of Hydraulic	Coupled-ISPH	Bhat,	2024	150(3)	4024009

	Engineering	framework for modeling tsunamis induced by landslides: Subaerial to submerged	N.U.H., Pahar, G.			
587.	International Journal for Numerical Methods in Fluids	Layered shallow water equations: Spatiotemporally varying layer ratios with specific adaptation to wet/dry interfaces	Bhat, N.U.H., Pahar, G.	2024	96(4)	pp. 397–434
588.	Journal of Hydrologic Engineering	Applicability of Dynamic, Local, and Diffusive Wave Models for Unified Depth-Averaged Fluid Flow Interaction with Porous Media	Kumar, A., Pahar, G.	2023	28(10)	4023028
589.	Ocean Engineering	Granular media deformation and fluid flow as overlapping, concurrent, coupled multilayered depth-averaged framework	Bhat, N.U.H., Pahar, G.	2023	283	114957
590.	Proceedings of the IAHR World Congress	On applicability of Dynamic and Local	Kumar, A., Pahar, G.	2023	-	pp. 1472–1479

		Porous-SWEs in Urban Flood				
591.	Journal of Fluid Mechanics	Dispersion effects in porous medium gravity currents experiencing local drainage	Sheikhi, S., Sahu, C.K., Flynn, M.R.	2023	975	A18
592.	Journal of Engineering Mathematics	The effects of heterogeneity on solute transport in porous media: anomalous dispersion	Butler, A.J., Sahu, C.K., Bickle, M.J., Neufeld, J.A.	2023	142(1)	8
593.	Journal of Fluid Mechanics	Experimental insights into gravity-driven flows and mixing in layered porous media	Sahu, C.K., Neufeld, J.A.	2023	956	A27
594.	International Journal of Pavement Engineering	Microscopic studies of binder blending on laboratory recycled asphalt mix	Bora, B., Das, A.	2023	24(2)	2283613
595.	Airfield and Highway Pavements 2023: Design, Construction, Condition Evaluation, and Management of Pavements - Selected Papers from the	Experimental Study on Effect of Geometrical Arrangement of Aggregates on Strength of Asphalt	Ambika, K., Animesh, D.	2023	3	pp. 40–50

	International Airfield and Highway Pavements Conference 2023	Mix				
596.	Analysis of Pavement Structures, Second Edition,	Analysis of Pavement Structures, Second Edition	Das, A.	2023		pp. 1–154
597.	Lecture Notes in Civil Engineering	Preface	Devi, L., Das, A., Sahu, P.K., Basu, D.	2023	271	pp. v
598.	Atmospheric Measurement Techniques	Hybrid instrument network optimization for air quality monitoring	Ajnoti, N., Gehlot, H., Tripathi, S.N.	2024	17(6)	pp. 1651–1664
599.	Journal of Combinatorial Optimization	Algorithms for influence maximization in socio-physical networks	Gehlot, H., Sundaram , S., Ukkusuri, S.V.	2023	45(1)	1
600.	Mechanics of Materials	Multiscale finite element analysis of layer interface effects on cracking in semi-flexible pavements at different temperatures	Cai, X., Ashish, P.K., Zheng, P., ...Gong, M., Yang, J.	2024	194	105008

601.	Journal of Cleaner Production-Elsevier	Effects of residual water on mechanical properties of cold mix based semi-flexible pavement composite towards a sustainable paving material	Xing Cai, Prabin Kumar Ashish, Zhen Leng, Zhifei Tan, Hainian Wang	2023	434	-
602.	Mechanics of Materials-Elsevier	Numerical modeling of the Mechanical Response of asphalt concrete in Tension and Compression	Zhifei Tan, Zhen Leng, Denis Jelagin, Peng Cao, Jiawang Jiang, Prabin Kumar Ashish, Fuliao Zou	2023	187	-
603.	Construction and Building Materials-Elsevier	Closing the Loop: Harnessing Waste Plastics for Sustainable Asphalt Mixtures – A Comprehensive Review.	Prabin Kumar Ashish, Anand Sreeram, Xiong Xu, Pavan Chandrasekar , Ajayshankar Jagadeesh, Dheeraj Adwani, Rabindra Kumar	2023	400	-

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604.	International Journal of Pavement Engineering	Temperature dependency analysis of the fracture characteristics of semi-flexible pavement (SFP) mixtures using acoustic emission technique	Cai, X., Leng, Z., Ashish, P.K., ...Yang, J., Gong, M.	2023	24(1)	2201903
605.	Road Materials and Pavement Design	Effect of warm mix additives and hydrated lime on viscosity and bonding– debonding behaviour of RET and PPA modified asphalt binder with aggregates	Singh, D., Habal, A., Ashish, P.K., Katawara, A.	2023	24(10)	pp. 2522–2544
606.	Transportation Research Part C: Emerging Technologies	A two-dimensional, multi-vehicle anticipation, and multi-stimuli based latent class framework to model driver behaviour in heterogeneous, disorderly traffic	Krishna Nirmale, S., Rawoof Pinjari, A., Chakroborty, P.	2024	160	104458

		conditions				
607.	Transportation Research Record	Study of Overtaking Maneuvers on Wide One-Way Roads in Weak Lane-Disciplined Traffic Using Naturalistic Driving Data	Dutta, B., Chakroborty, P., Vasudevan, V.	2023	2677(3)	pp. 565–582
608.	Engineering Applications of Artificial Intelligence	A review of driver gaze estimation and application in gaze behavior understanding	Sharma, P.K., Chakroborty, P.	2024	133	108117
609.	Future Transportation,	Automated Approach for Computer Vision-Based Vehicle Movement Classification at Traffic Intersections	Jana, U., Karmakar, J.P.D., Chakroborty, P., Huang, T., Sharma, A.	2023	3(2)	pp. 708–725
610.	International Journal of Transportation Science and Technology	Deep convolutional generative adversarial networks for traffic data imputation encoding time series as images	Huang, T., Chakroborty, P., Sharma, A.	2023	12(1)	pp. 1–18

611.	2023 8th International Conference on Models and Technologies for Intelligent Transportation Systems, MT-ITS 2023	Traffic Intersection Vehicle Movement Counts with Temporal and Visual Similarity based Re-Identification	Jaiswal, S., Chakraborty, P., Huang, T., Sharma, A.	2023	-	-
612.	IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops,	The 7th AI City Challenge	Naphade, M., Wang, S., Anastasiu, D.C., ...Jiang, S., Chellappa, R., Chakraborty, P.	2023	-	pp. 5538–5548
613.	Journal of Intelligent Transportation Systems: Technology, Planning, and Operations	Massively parallelizable approach for evaluating signalized arterial performance using probe-based data	Poddar, S., Chakraborty, P., Sharma, A., Knickerbocker, S., Hawkins, N.	2023	27(4)	pp. 488–502
614.	Data-Centric Structural Health Monitoring: Mechanical, Aerospace and Complex Infrastructure Systems,	Remote sensing techniques for postdisaster infrastructure health monitoring	Gupta, S., Nair, S.	2023	-	pp. 197–214
615.	Materials Today: Proceedings	A review of the emerging role of UAVs in	Gupta, S., Nair, S.	2023	-	-



		construction site safety monitoring				
616.	Lecture Notes in Civil Engineering	Activity Time Variations and Its Influence on Realization of Different Critical Paths in a PERT Network: An Empirical Study Using Simulations	Gupta, S., George, R.C., Philip, D., Nair, S.	2023	279 LNCE	pp. 674–680
617.	Physica A: Statistical Mechanics and its Applications	Two-dimensional LWR model for lane-free traffic	Agrawal, S., Kanagaraj, V., Treiber, M.	2023	625	128990
618.	Transportation Letters	Investigation of car-following models in disordered traffic using trajectory data obtained from unmanned aerial vehicles	Kashyap N R, M., Sivagnan asundaram, K., Kanagaraj, V., Asaithambi, G., Toledo, T.	2023	15(8)	pp. 834–844
619.	International Journal of Geomechanics	Evolution of Limiting Slope Face in Rock Mass Using the Stress Characteristics Method	Nandi, S., Ghosh, P.	2024	24(6)	4024101

620.	Computers and Geotechnics,	Ultimate bearing capacity of strip footings on Hoek-Brown rock slopes – A stress characteristics solution	Nandi, S., Ghosh, P.	2024	166	105963
621.	Indian Geotechnical Journal,	Numerical Analysis of Combined Helical Pile Raft Foundation (CHPRF) Under Compressive and Tensile Loadings	Ghosh, P., Garg, S., Saha Roy, S.	2024	-	-
622.	Geotechnical Special Publication	Unified Slip Line Solution for Seismic Slope Stability in Cohesive-Frictional Soils Considering the Intermediate Principal Stress Effect	Nandi, S., Ghosh, P.	2024	2024-February (GSP 352)	pp. 192–202
623.	International Journal of Geomechanics	A Simplified Method for Seismic Behavior of Retaining Walls with Strip Load on the Backfill	Singh, A.P., Ghosh, P.	2024	24(1)	6023023

624.	Soil Dynamics and Earthquake Engineering	Active vibration screening characteristics of bamboo in-filled wave barriers	Surapreddi, S., Ghosh, P.	2023	171	107945
625.	Rock Mechanics and Rock Engineering	Seismic Stability Assessment of Rock Slopes Using Limiting Slope Face Concept	Nandi, S., Ghosh, P.	2023	56(7)	pp. 5077–5102
626.	Transportation Research Record	Ultimate Load-Bearing Capacity of Rigid Two-Way Pavements Placed on Geosynthetic-Supported Soil Embankment	Manna, D., Santhoshkumar, G., Ghosh, P.	2023	-	-
627.	Lecture Notes in Civil Engineering	Effect of Footing Size on the Dynamic Behaviour of Cohesionless Soil-Foundation System	Das, G., Ghosh, P.	2023	300	pp. 505–513
628.	Lecture Notes in Civil Engineering,	Analysis and Design of Foundation System for the Horizontal Solar Axis Tracker	Surapreddi, S., Santhoshkumar, G., Ghosh, P.	2023	295	pp. 1–12
629.	International Journal of Geomechanics	Critical Stability Analysis of Slopes Using Stress	Sinchith, M., Nandi,	2023	23(1)	4022263

		Characteristics in Purely Cohesive Soil	S., Ghosh, P.			
630.	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.	2024	24(6)	4024095,1-15
631.	Arabian Journal for Science and Engineering,	Long-Term Response of Piled-Raft Foundations Subjected to Incremental Compressive Loads	Tarenia, K., Patra, N.R., Rajesh, S., Mondal, A.	2024	49(4)	pp. 5785–5816
632.	Indian Geotechnical Journal,	Strength and Deformation Behavior of Compacted Soils Under Varied Suction and Drainage Conditions	Rajesh, S.	2024	54(1)	, pp. 284–300
633.	Geotechnical Special Publication,	Evaluation of the Response of Piled Raft Systems in Soft Soil Undergoing Consolidation and Pore Pressure	Sengupta, I., Patra, N.R., Rajesh, S.	2024	2024-February (GSP 350)	pp. 225–235

		Drawdown				
634.	Indian Geotechnical Journal,	A State-of-the-Art Review on Sustainable Chemical Stabilizers for Expansive Soils	SankaraNarayanan, M., Rajesh, S.	2024	-	1-19
635.	Acta Geotechnica	Engineering and physicochemical response of soft clay with electrokinetic consolidation process	Pandey, B.K., Rajesh, S., Chandra, S.	2024	-	1-20
636.	International Journal of Geomechanics	Behavior of Rigid Piled-Raft Foundation Subjected to Compressive Loading Considering Time Effect: An Experimental and Analytical Study	Tarenia, K., Patra, N.R., Rajesh, S., Mondal, A.	, 2023	23(12)	4023236, 1-23
637.	International Journal of Geomechanics,	Tensile Strength Framework for Unsaturated Coarse- and Fine-Grained Soils	Roy, S., Rajesh, S.	2023	23(7)	4023095, 1-19
638.	E3S Web of	The effect of	Jadar,	2023	382	, 12004

	Conferences,	stress-dependent SWRC on the load carrying capacity of the slope subjected to the drying-wetting path	C.M., Rajesh, S., Roy, S.			
639.	Geosynthetics International,	Gas flow characteristics of GCL under distortions, wet-dry cycles, and hydrating fluids	Khan, V., Rajesh, S.	2023	-	1-22
640.	Lecture Notes in Civil Engineering,	A State-of-the-Art Review on Electro-osmotic Treatment for Stabilization of Soft Soils	Pandey, B.K., Rajesh, S., Chandra, S.	2023	297	pp. 225–234
641.	Lecture Notes in Civil Engineering,	Influence of Conductive Jute Geotextile-Encased Stone Column in Soft Clay	Pandey, B.K., Rajesh, S., Chandra, S.	2023	298	pp. 41–50
642.	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.	2024	10(3)	35

643.	Lecture Notes in Civil Engineering,	Effect of Coal Ash–Geogrid Interaction on Static and Dynamic Behavior of Ash-Filled MSE Walls	Malviya, S., Raychowdhury, P.	2024	448	pp. 389–400
644.	Applied Ocean Research,	State-of-the-art review of composite caisson-pile foundation (CCPF)	KC, R., Sharma, K., Raychowdhury, P., ...Burnwal, M.L., Misra, J.	2023	136	103571
645.	Transportation Infrastructure Geotechnology,	A Comprehensive Numerical Based Case Study on Abutment-Foundation-Backfill Behavior of a Railway Bridge	Bagchi, A., Raychowdhury, P.	2023	-	-
646.	Smart Geotechnics for Smart Societies	Performance evaluation of Composite Caisson-Pile Foundation (CCPF) in sand using finite element model	Rajan, K.C., Sharma, K., Burnwal, M.L., ...Acharya, I.P., Misra, J.	2023	-	pp. 1290–1294
647.	Lecture Notes in Civil Engineering,	Effect of Reinforced Soil Interaction with	Malviya, S., Raychowdhury, P.	2023	331 LNCE	pp. 199–210

		Other Components on Static and Dynamic Performance of MSE Wall				
648.	Lecture Notes in Civil Engineering,	Numerical Simulations and Validation of a Rocking Foundation Model for Seismic Loading	Soundararajan, S., Gajan, S., Raychowdhury, P.	2023	331 LNCE	pp. 355–365
649.	Lecture Notes in Civil Engineering,	Comparative Study Considering Spatial Influence on the Pushover Behaviour of the Bridge Abutment	Bagchi, A., Raychowdhury, P.	2023	326 LNCE	pp. 224–237
650.	Bagchi, A., Raychowdhury, P.	Sensitivity Study of the Pressure-Dependent Soil Model Based on the Abutment-Backfill Pushover Behaviour	Lecture Notes in Civil Engineering,	2023	300	pp. 129–139
651.	Springer Tracts in Civil Engineering,	Seismic Response of Shallow Foundations on Reinforced Sand Bed	Burnwal, M.L., Raychowdhury, P.	2023	-	pp. 163–176



652.	Journal of Earthquake Engineering,	Rocking Shallow Foundations on Geogrid-reinforced Ganga Sand Bed: An Experimental Study	Burnwal, M.L., Raychowdhury, P.	2023	27(2)	pp. 434–450
653.	Tarenia, K., Patra, N.R., Rajesh, S., Mondal, A.	Long-Term Response of Piled-Raft Foundations Subjected to Incremental Compressive Loads	Arabian Journal for Science and Engineering,	2024	49(4)	pp. 5785–5816
654.	Geotechnical Special Publication,	Evaluation of the Response of Piled Raft Systems in Soft Soil Undergoing Consolidation and Pore Pressure Drawdown	Sengupta, I., Patra, N.R., Rajesh, S.	2024	2024-February (GSP 350)	pp. 225–235
655.	Geotechnical Special Publication,	Effect of Jarosite Waste and Red Mud on Strength and Compressibility Behavior of Clayey Soil	Bhatt, R., Patra, N.R.	2024	2024-February (GSP 351)	pp. 307–315
656.	International Journal of Geomechanics,	Behavior of Rigid Piled-Raft Foundation Subjected to	Tarenia, K., Patra, N.R., Rajesh, S., Mondal,	2023	23(12)	4023236

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657.	Natural Hazards,	Influence of geogrid reinforcement on dynamic characteristics and response analysis of Panki pond ash	Chowdhury, S., Patra, N.R.	2023	119(1)	pp. 435–461
658.	Journal of Hazardous, Toxic, and Radioactive Waste,	Applicability of Clay Soil Stabilized with Red Mud, Bioenzyme, and Red Mud-Bioenzyme as a Subgrade Material in Pavement	Parik, P., Patra, N.R.	2023	27(2)	4023003
659.	Acta Geotechnica,	Numerical modeling of pile embedded in crushable sand subjected to earthquake loading	Saqib, M., Das, A., Patra, N.R.	2023	-	-
660.	International Journal of Civil Engineering,	Effect of Bio-enzyme on Strength and Microstructure of	Parik, P., Patra, N.R.	2023	21(1)	pp. 135–148

		Banda Clay Soil, India				
661.	Lecture Notes in Civil Engineering,	A Simple Analytical Model of the Damping Ratio Considering Effect of Particle Breakage	Saqib, M., Das, A., Patra, N.R.	2023	288 LNCE	pp. 126–133
662.	Journal of Earth System Science,	A numerical investigation of fluid flow path evolution during cataclastic flow in reservoir rocks	Nanda, K., Mufti, S., Das, A., Misra, S.	2024	133(1)	3
663.	Springer Proceedings in Materials,	A Visco-Damage-Plastic Model to Analyze the Impact Loading Response in Synthetic Rock	Kumar, S., Das, A., Tiwari, G.	2024	34	pp. 415–422
664.	Rock Mechanics and Rock Engineering	Dynamic Behavior of UngROUTED and Grouted Rocks of Different Morphologies Containing a Flaw Subjected to Different Thermal Treatments	Kumar, S., Tiwari, G., Das, A.	2024	57(1)	pp. 261–286
665.	Engineering Fracture Mechanics,	A comparative study on the dynamic loading	Kumar, S., Das, A., Tiwari,	2023	292	109579

		response of heat-treated soft and medium hard rocks	G.			
666.	Bulletin of Engineering Geology and the Environment,	Dynamic mechanical behaviour of rock-like materials with a flaw under different orientation and infill conditions	Kumar, S., Tiwari, G., Parameswaran, V., Das, A.	2023	-	
667.	E3S Web of Conferences,	Numerical implementation of BBM in FE package for solving unsaturated soil boundary value problems	Prajapati, V., Das, A.	2023	382	15003
668.	E3S Web of Conferences,	Pore network modeling approach for simulating soil water retention curve under different stress conditions	Mufti, S., Das, A.	2023	382	10004
669.	Advances in Water Resources,	Multiscale pore network construction for two phase flow simulations in granular soils	Mufti, S., Das, A.	2023	173	104386

670.	Acta Geotechnica	Modeling unsaturated hydraulic conductivity of granular soils using a combined discrete element and pore-network approach	Mufti, S., Das, A.	2023	18(2)	pp. 651–672
671.	Acta Geotechnica,	Numerical modeling of pile embedded in crushable sand subjected to earthquake loading	Saqib, M., Das, A., Patra, N.R.	2023	-	-
672.	IOP Conference Series: Earth and Environmental Science	Experimental assessment of dynamic loading response of grouted non-persistent jointed rock	Kumar, S., Tiwari, G., Das, A.	2023	1124(1)	12055
673.	Lecture Notes in Civil Engineering,	An Optimized Pore Network Model for Unsaturated Soil Permeability Determination	Mufti, S., Das, A.	2023	288 LNCE	pp. 185–192
674.	Lecture Notes in Civil Engineering,	A Simple Analytical Model of the Damping Ratio Considering Effect of Particle	Saqib, M., Das, A., Patra, N.R.	2023	288 LNCE	pp. 126–133

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675.	International Journal of Geomechanics	Estimation of Permeability of Fine-Grained Soils from High-Frequency Electromagnetic Measurements	Mishra, P.N., Scheuermann, A., Bore, T.	2024	24(4)	4024019
676.	Acta Geotechnica	Suppressive effects of geotextiles on soil water evaporation	Zhang, Y., Mishra, P.N., Tiwari, S., Scheuermann, A., Li, L.	2024	19(4)	pp. 2163–2174
677.	Journal of Rock Mechanics and Geotechnical Engineering	Biological perspectives in geotechnics: Application and monitoring	Mishra, P.N., Jain, S., Bore, T., ...Das, S.K., Scheuermann, A.	2024	-	-
678.	Acta Geotechnica	Electromagnetic methods for assessing moisture content and density of an iron oxide copper gold deposits (IOCG) tailings sample	Mishra, P.N., Parbhakar-Fox, A., Olaya, S.Q., Scheuermann, A., Bore, T.	2024	-	-
679.	Reviews in Environmental Science	Biological perspectives in	Jain, S., Mishra,	2023	22(4)	pp. 1093–1130

	and Biotechnology	geotechnics: theoretical developments	P.N., Tiwari, S., ...Scheuer mann, A., Bore, T.			
680.	Journal of Geotechnical and Geoenvironmental Engineering	Ventilated Well Method for Efficient Dewatering of Soft Soils: Dimensional Analysis and Validation through Numerical Modeling	Mishra, P.N., Zhang, Y., Scheuerm ann, A.	2023	149(9)	4023070
681.	Computers and Geotechnics,	A hybrid formulation for torsional dynamic response of pile foundations in a layered soil deposits	Gupta, B.K.	2024	168	106115
682.	Computers and Geotechnics,	Axial stiffness of floating pile foundations and rigid footings with Vlasov-Leont'ev foundation model and expressions for a rigid disk	Gupta, B.K.	2024	166	106039
683.	International Journal of Geomechanics, 2024	Lateral Dynamics of a Pile in a Homogeneous	Gupta, B.K.	2024	24(2)	4023268

		Half-Space with Vlasov-Leont'ev Foundation Model and Expressions for a Rigid Disk				
684.	Journal of Earthquake Engineering, 2024	On the Vlasov-Leont'ev Foundation Model for Axial Dynamic Stiffness of a Pile Embedded in a Viscoelastic Soil	Gupta, B.K.	2024	-	-
685.	Journal of Engineering Mechanics, 2023	Vlasov-Leont'ev Foundation Model for the Dynamic Analysis of a Laterally Loaded Pile in Homogeneous Viscoelastic Soil	Gupta, B.K.	2023	149(9), 4023053	1-14
686.	Geomechanics and Engineering, 2023	Analysis of circular tank foundation on multi-layered soil subject to combined vertical and lateral loads	Elhuni, H.F., Gupta, B.K., Basu, D.	2023	32(6)	pp. 553–566
687.	Natural Hazards Review, 2024	Seismic Stability Analysis of Square and Rectangular Tunnels in Cohesive-Frictional	Gowtham, G., Sahoo, J.P.	2024	25(3)	4024021



		Soils				
688.	Composite Structures, 2024	Optimization of multi-layered composites against ballistic impact: A mesoscale approach	Kapoor, S., Ray, S., Sahoo, J.P., Joshi, Y.K.	2024	338	118097
689.	Composite Structures, 2024	Optimization of multi-layered composites against ballistic impact: A mesoscale approach	Kapoor, S., Ray, S., Sahoo, J.P., Joshi, Y.K.	2024	338	118097
690.	Soil Dynamics and Earthquake Engineering, 2024	Stability analysis of circular tunnels using spatiotemporal accelerations formulated considering heterogeneity of seismic wave propagation velocities	Gowtham, G., Sahoo, J.P.	2024	181	108654
691.	International Journal of Geomechanics, 2024	Seismic Stability of Circular Tunnels in Anisotropic Granular Soil with Surcharge Loading Based on the Modified	Gowtham, G., Sahoo, J.P.	2024	24(5)	4024053

		Pseudodynamic Approach				
692.	Natural Hazards, 2023	Stability of square and rectangular tunnels in sand under seismic loading	Gowtham, G., Sahoo, J.P.	2023	119(3)	pp. 1863–1881
693.	Geomechanics and Engineering, 2023	Stability assessment of unlined tunnels with semicircular arch and straight sides in anisotropic clay	Kumar, B., Sahoo, J.P.	2023	35(2)	pp. 149–163
694.	Computers and Geotechnics, 2023	Kinematic horizontal slice method for uplift capacity analysis of plate anchors in nonhomogeneous soils with a nonlinear failure criterion	Ganesh, R., Sahoo, J.P.	2023	159	105407
695.	Acta Geotechnica, 2023	Uplift capacity of strip plate anchors in unsaturated clay	Mushtaq, M., Sahoo, J.P.	2023	18(7)	pp. 3765–3781
696.	Environmental Earth Sciences, 2023	Stability assessment of unlined real horseshoe-shaped tunnels in	Kumar, B., Sahoo, J.P.	2023	82(9)	218

		anisotropic and heterogeneous undrained clay				
697.	Soil Dynamics and Earthquake Engineering,	Stability evaluation of circular tunnels in cohesive frictional soil under earthquake loading using the modified pseudo-dynamic approach	Sahoo, J.P., Gowtham, G.	2023	166	107740
698.	International Journal of Geomechanics, 2023	Undrained Cyclic Loading Response of Subgrade Soil Subjected to Varying Moisture Content and Stress Level	Singh, A.K., Sahoo, J.P.	2023	23(2)	4022284
699.	Geomechanics and Geoengineering, 2023	Bearing capacity factor for strip foundations on unsaturated clay	Sahoo, J.P., Mushtaq, M.	2023	-	-
700.	Marine Georesources and Geotechnology, 2023	Pullout capacity of vertical plate anchors in unsaturated clay considering variable surface flow conditions	Mushtaq, M., Sahoo, J.P.	2023	-	-
701.	International Journal of	Support Pressure for Stability of	Kumar, B., Sahoo,	2023	23(1)	4022264

	Geomechanics, 2023	Horseshoe-Shaped Tunnels in Undrained Clay Using Lower-Bound Finite-Element Limit Analysis	J.P.			
702.	Geomechanics and Geoengineering, 2023	Lining pressure for circular tunnels in two layered clay with anisotropic undrained shear strength	Kumar, B., Sahoo, J.P.	2023	18(2)	pp. 91–104
703.	Earthquake Engineering and Engineering Vibration	Direct scaling of residual displacements for bilinear and pinching oscillators	Saifullah, M., Gupta, V.K.	2024	23(1)	pp. 129–149
704.	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.	2024	577	118324
705.	Lecture Notes in Civil Engineering	Heterogeneous Fusion of Sensor Data for Response Recovery During	Adarsh, S., Ray-Chaudhuri, S.	2023	329 LNCE	pp. 601–614

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706.	Lecture Notes in Civil Engineering,	In-Plane Behavior of Un-Reinforced Brick Masonry Walls Retrofitted with Partially Confined Reinforced-Concrete Bands: Shake Table Experiments	Latha, L., Ray-Chaudhuri, S.	2023	330 LNCE	pp. 705–717
707.	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.	2024	10(3)	4024032
708.	Applied Mathematical Modelling, 2024	Consistent meta-modelling approach for a less-conservative reliability based design of shells against buckling	Majumder, R., Mishra, S.K.	2024	130	pp. 327–345
709.	Journal of Wind Engineering and	Large eddy simulation of wind loading on an	De, B., Kumar, A., Mishra,	2024	246	, 105658

	Industrial Aerodynamics,	anticlastic conical tensile membrane	S.K.			
710.	Journal of Materials in Civil Engineering,	Rheological and Flexural Properties of High Strength Cementitious Composite Reinforced with L-Shaped End Superelastic Short Fibers	Dahiya, A., Mishra, S.K.	2023	35(11)	4023386
711.	Journal of Engineering Mechanics,	Postcritical Imperfection Sensitivity of Functionally Graded Piezoelectric Cylindrical Nanoshells Using Boundary Layer Solution	Alam, M., Mishra, S.K.	2023	149(9)	4023055
712.	Thin-Walled Structures,	Reliability analysis and design of randomly imperfect thin cylindrical shells against post-critical drops	Majumder, R., Chakraborty, S., Mishra, S.K.	2023	185	110576
713.	Journal of Engineering Mechanics,	Postcritical Behavior of Nonlocal Strain Gradient Arches:	Dhanoriya, A., Alam, M., Mishra, S.K.	2023	149(2)	4022105

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714.	European Journal of Mechanics, A/Solids,	A boundary layer solution for the post-critical thermo-electro-mechanical stability of nonlocal-strain gradient Functionally Graded Piezoelectric cylindrical shells	Alam, M., Mishra, S.K.	2023	97	104836
715.	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.	2024	36(6)	4024139
716.	Construction and Building Materials,	Development of engineered cementitious composite with moderate tensile properties using polyester fibers	Kumar, S., Rai, D.C.	2023	404	133158

717.	Bulletin of Earthquake Engineering,	Seismic behavior of circular segmental masonry arch considering tensile strength of joints	Avasthi, R., Rai, D.C.	2023	21(14)	pp. 6367–6391
718.	Journal of Building Engineering,	Shake table tests on timber frame structure infilled with dry bond masonry	Gani, A., Mohammad Banday, J., Rai, D.C.	2023	78	107597
719.	Innovative Infrastructure Solutions,	Seismic evaluation of traditional timber framed masonry systems using shake table tests and finite element modelling	Gani, A., Banday, J.M., Rai, D.C.	2023	8(9)	231
720.	Earthquake Engineering and Structural Dynamics,	Experimental testing of aluminum-core buckling restrained knee braced Truss moment frames for earthquake resistance	Chhabra, J.P.S., Rai, D.C.	2023	52(3)	pp. 660–680
721.	Earthquake Spectra,	Behavior of unreinforced dry-jointed masonry walls at corners under lateral loads	Avasthi, R., Bansal, N., Rai, D.C.	2023	39(1)	pp. 100–125



722.	Journal of Structural Engineering (United States),	Experimental and Numerical Study of a Plasterboard Suspended Ceiling System with Free Perimeter Supports	Matale, S.V., Kumar, M., Rai, D.C.	2023	149(1)	4022217
723.	Structural Design of Tall and Special Buildings,	Optimal parameters for tall buildings with a single viscously damped outrigger considering earthquake and wind loads	Malik, F.N., Kolay, C.	2023	32(7)	e2003
724.	Structures,	Nonlinear static analysis of extreme structural behavior: Overcoming convergence issues via an unconditionally stable explicit dynamic approach	Xie, S.-C., Kolay, C., Feng, D.-C., Ricles, J.M.	2023	49	pp. 58–69
725.	Current Science,	Real-time hybrid simulation in the Pseudo-Dynamic Testing Facility at the Indian Institute of Technology Kanpur	Kakoty, H., Kolay, C., Raj, S., Kar, K.K.	2023	125(6)	pp. 685–691

726.	Case Studies in Construction Materials,	Tension and bond characteristics of foam concrete for repair applications	Vishavkarma, A., Harish, K.V.	2024	20	1-19
727.	Journal of Building Engineering	Assessment of pore structure of foam concrete containing slag for improved durability performance in reinforced concrete applications	Vishavkarma, A., Kizhakku modom Venkatanarayanan, H.	2024	86, 108939	1-21
728.	Sadhana - Academy Proceedings in Engineering Sciences,	Influence of using crushed brick powders as a fine filler substitute in the development of self-compacting concretes	Wolde, H.T., Verma, A., Harish, K.V.	2023	48(4)	252
729.	IABSE Congress, New Delhi 2023: Engineering for Sustainable Development, Report,	Image analysis of concrete surface for investigating the influence of aggregate distribution and load induced damage on the chloride permeability of concrete measured using RCPT	Mishra, P., Sarfaraz, A., Misra, S., Harish, K.V.	2023	-	pp. 1364–1376

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730.	IABSE Congress, New Delhi 2023: Engineering for Sustainable Development, Report,	Water transport properties and Life Cycle Assessment of low-grade fly ash based cementitious materials	Kumar, M., Harish, K.V.	2023	-	pp. 303–312
731.	Global Cleaner Production Conference, Elsevier	Rheological insights and environmental implications of supplementary cementitious materials in cementitious suspensions for sustainable concrete pumping processes	Abhiram Shukla and K.V. Harish.,	Nov. 2023	-	-
732.	Global Cleaner Production Conference, Elsevier	Image analysis of concrete surface for investigating the influence of aggregate distribution on chloride penetration resistance	Mishra P.; Sarfaraz A.; Misra S.; Harish K.V.	Nov. 2023	-	-

**Department of Cognitive Science**

733.	Journal of Experimental Psychology: Learning, Memory, and Cognition	Accurate knowledge about feature diagnosticities leads to less preference for unidimensional strategy.	Thomas, S., & Srinivasan, N.	2023	49(9)	1396-1418
734.	Behavioral and Brain Sciences	Statistical prediction alone cannot identify good models of behaviour	Srivastava, N., Sifar, A., & Srinivasan, N.	2023	48	e408
735.	Frontiers in Psychology	Editorial: Insights in Consciousness Research 2021	Srinivasan, N., Simione, L., Arsiwalla, X. D., Kleiner, J., & Raffone, A.	2023	14	1182690
736.	Group Processes and Intergroup Relations	Disgust sensitivity relates to attitudes toward gay men and lesbian women across 31 nations	Van Leewen, F., ..., Srinivasan, N., ..., & Tybur, J.	2023	26	629-651
737.	Frontiers in Psychology	Editorial: Rising stars in Consciousness Research 2021	Arsiwalla, X. D., Srinivasan, N., Simione, L., Kleiner, J., & Raffone, A.	2023	14	1205982

738.	Journal of Cultural Cognitive Science	Affective film dataset from India (AFDI): Creation and validation with an Indian sample.	Mishra, S., Srinivasan, N., Asif, M., & Tiwary, U.S.	2023	7	255-267
739.	Psychonomic Bulletin & Review	Temporal correspondence in perceptual organization: Reciprocal interactions between temporal sensitivity and figure-ground segregation	Singhal, I., & Srinivasan, N.	2024	31	819–827
740.	Language Learning	Rethinking First Language–Second Language Similarities and Differences in English Proficiency: Insights From the ENGLISH Reading Online (ENRO) Project	Siegelman, N., ..., Agarwal, N., Khare, A., Verma, A. ...	2023	74	249-294
741.	Frontiers in Psychology	Towards the self and away from the others: evidence for self-prioritization observed in an approach	Roy, N., Karnick, H., & Verma, A.	2023	14	

		avoidance task.				
742.	Behavioural Brain Research	Parietal alpha underlies slower cognitive responses during interference processing in adolescents.	Mo Z, Grennan G, Kulkarni A, Ramanathan D, Balasubramani PP, Mishra J.	2023	443	114356
743.	Sci Rep 13, 5928	A generalized reinforcement learning based deep neural network agent model for diverse cognitive constructs.	Nair, S.S., Muddapu, V.R., Balasubramani, P.P., Mishra, J., Ramanathan, D.S. and Chakravarthy, V.S.	2023		
744.	British Journal of Educational Technology	GeoSolvAR: Scaffolding spatial perspective-taking ability of middle-school students using AR-enhanced inquiry learning environment	Anveshna Srivastava, Vihang Vaidya, Sahana Murthy & Chandan Dasgupta	2024	00 (published online; under print)	1-22
745.	Proceedings of the National Academy of Sciences of the United States of America	Interpersonal heart rate synchrony predicts effective informati	K. M. Sharika, Swarag Thaikkandi,	2024	In press	In press

	(PNAS)	on processing in a naturalistic collective decision-making task	Nivedita, Michael L. Platt			
<b>Department of Computer Science and Engineering</b>						
746.	ACM Transactions on Algorithms	Minimum+1 (s,t)-cuts and dual edge sensitivity oracle	Surender Baswana, Koustav Bhanja, Abhyuday Pandey	2023	19(4)	38:1 -- 38:41
747.	Information and Computation	Finite-State Relative Dimension, dimensions of AP subsequences and a finite-state van Lambalgen's theorem Information and Computation, 105156(2024)	S Nandakumar, S Pulari, S Akhil	2024	298	
748.	ACM Transactions on Modeling and Performance Evaluation of Computing Systems	Configuring and Coordinating End-to-end QoS for Emerging Storage Infrastructure	Gupta, J., Kant, K., Pal, A., Biswas, J.	2024	9	1-32
749.	IEEE Internet of Things Journal	Nonintrusive Driving Behavior Characterization From Road-Side	Pradeep Kumar, P., Kant, K., Pal,	2024	11	502-509

		Cameras	A.			
750.	IEEE Transactions on Neural Networks and Learning Systems	Collaborative Machine Learning: Schemes, Robustness, and Privacy	Wang, J., Pal, A., Yang, Q., Kant, K., Zhu, K., Guo, S.	2023	34	9625-9642
751.	Theoretical Computer Science	Space efficient algorithm for solving reachability using tree decomposition and separators.	Jain, R., Tewari, R	2024	982	114251
752.	Springer Journal of Cryptographic Engineering	CPU-Doctor: when a device's heart-beat can be an acoustic side-channel disassembler	Oswa Amro, Vishesh Mishra, Rohit Negi & Urbi Chatterjee	2023		1-22
753.	ACM Transaction of Embedded Computing Systems	VADF: Versatile Approximate Data Formats for Energy-Efficient Computing	Vishesh Mishra, Sparsh Mittal, Neelofar Hassan, Rekha Singhal, and Urbi Chatterjee	2023	22	
754.	IEEE Embedded Systems Letters	Door Knock: Reverse	Dipesh and U. Chatterjee	2024		



		Engineering the MPSoC Layout Through Timing Attack on NoC				
<b>Department of Design</b>						
755.	International Journal of Advanced Manufacturing Technology	Manufacture of tunnel-shaped sheet metal parts with improved accuracy using novel toolpath strategies for single point incremental forming	Behera, A., Lagodziuk, F.	2024		doi: 10.21203/rs.3.rs-3393994/v1
756.	International Journal of System Assurance Engineering and Management	Retrospective and predictive analysis of human operator performance with event report data of a nuclear reactor.	Garg*, V., Vinod, G. & Kant, V .	2024		<a href="https://doi.org/10.1007/s13198-024-02313-y">https://doi.org/10.1007/s13198-024-02313-y</a>
757.	Reliability Engineering & System Safety (Special Issue)	Auto-CREAM: Software application for evaluation of HEP with basic and extended CREAM for PSA studies	Vipul Garg, Gopika Vinod, Vivek Kant	2023	236	109318
758.	Foundations and Trends® in Robotics	Developments and Trend Maps for Soft Continuum Manipulators and	Rajashekhar, V. S., and Gowdham	2024	12:1	1-74

		Soft Snake Robots	Prabhakar			
759.	Applied Acoustics	Analysis of /ṭaː/ and /ṭɒn/ bols of the tabla from a musical standpoint	Sreerag Ashok and Nachiketa Tiwari	2023		DOI: <a href="https://doi.org/10.1016/j.apacoust.2023.109636">10.1016/j.apacoust.2023.109636</a>
<b>Department of Earth Sciences</b>						
760.	Palaeogeography, Palaeoclimatology, Palaeoecology	Indian summer monsoon variability during the past ~75 ka based on stable isotope records of sediments from NW India	Amir M.; Paul D.; Chang Y.-P.	2024	637	112016
761.	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.	2024		1-14

762.	Geomorphology	Landscape evolution of the Ganga-Sai interfluvium in response to river dynamics and Late Pleistocene-Holocene climate change via a meander cut-off lake of a plains-fed channel	Misra P.; Sinha R.; Farooqui A.; Tandon S.K.	2024	449	109068
763.	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.	2024	331	108622
764.	Himalayan Geology	Holocene shortening along the Himalayan Frontal Thrust in the Nahan Salient, Western Himalaya, India	Singh G.; Thakur M.; Malik J.N.	2024	45	
765.	Coral Reefs	Microstructure and growth rate variability in a giant clam	Fousiya A.A.; Malik J.N.; Paul D.; Chakraborty	2024		1-14

		(Tridacna maxima) from the Lakshadweep Archipelago, India: implications for their use as biological monitors to trace extreme weather events	S.; Achyuthan H.			
766.	Energy & Fuels	Laboratory Observation of Fluid Flow in Depleted Shale Gas Reservoir: Coupling Effect of Sorbing and Non-sorbing Gas on Stress, Slippage, Flow Regime in Anisotropic and Fractured Shales	Abinash Bal and Santanu Misra	2024	38	6868-6890
767.	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	Cecile Massiot, Ludmila Adam, Eric S. Boyd, S. Craig Cary, Daniel R. Colman, Alysia Cox, Ery Hughes, Geoff	2024	33	67-88

		Zealand	Kilgour, Matteo Lelli, Domenico Liotta, Karen G. Lloyd, Tiipene Marr, David D. McNamara, Sarah D. Milicich, Craig A. Miller, Santanu Misra, Alexander R.L. Nichols, Simona Pierdominici, Shane M. Rooyakkers, Douglas R. Schmitt, Andri Stefansson, John Stix, Matthew B. Stott, Camille Thomas, Pilar Villamor, Pujun Wang Wang, and Sadiq			
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			Zarrouk			
768.	Journal of Earth System Sciences	Understanding the Mud Crack Patterns: How Layer Thickness, Grain Size, and Secondary Layers Affect Their Formation - A Laboratory Study	Tushar Todkar, Puspendu Saha and Santanu Misra	2024		
769.	Journal of Earth System Science	A numerical investigation of fluid flow path evolution during cataclastic flow in reservoir rocks	Nanda K.; Mufti S.; Das A.; Misra S.	2024	133	3
770.	Journal of Geophysical Research: Solid Earth	Insights Into the Micromechanics of Dehydration-Induced Gypsum to $\gamma$ -Anhydrite Phase Transition From Instrumented Microindentation Experiments	Mukherjee R.; Misra S.	2024	129	e2023JB027098
771.	Journal of Geophysical Research: Earth Surface	Frictional Control on Accelerating Creep During the Slow-To-Fast Transition of Rainfall-Induced	Paul K.; Bhattacharya P.; Misra S.	2024	129	e2023JF007213

		Catastrophic Landslides				
772.	Natural Resources Research	Nanopore Heterogeneity and Accessibility in Oil and Gas Bearing Cretaceous KG (Raghampuram) Shale, KG Basin, India: An Advanced Multi- analytical Study	Bal A.; Misra S.; Sen D.	2024		1-24
773.	Journal of Hydrology	A four-component mixing model reveals snowpack melting as early as March during the 2019 hydrological year in the Upper Ganga Basin	Shaifullah; Sen I.S.	2024	628	130473
774.	Computers and Geosciences	ShaVi-1.0: An interface enabled open source 2D acoustic full waveform inversion package	Vikas, Roy S., Ghosal D	2024	187	105592
775.	Physics of the Earth and Planetary Interiors	Tectonic development in Singhbhum Craton, NE India decrypted from dyke swarms:	Ojha A.K.; Saini D.P.M.; Agarwal A.; Pandey A.K.	2024	350	107169

		A window to understand magma dynamics in Archean-Proterozoic supercontinents				
776.	Physics of the Earth and Planetary Interiors	Changes in thermomagnetic and X-ray diffraction properties of Asby dolerite with distance from the Lockne impact structure, Sweden	Phukon P.; Agarwal A.; Mendes B.D.L.; Kontny A.; Joshi G.	2024	348	107145
777.	International Journal of Impact Engineering	Effects of Hugoniot properties on jet onset conditions	Sugandhi E.; Agarwal A.; Saha A.; Joshi G.	2024	188	104930
778.	Journal of Structural Geology	Kink-bands as indicators of shock-wave propagation direction: Results from experimental impact cratering on gneiss	Joshi G.; Agarwal A.; Kenkmann T.; Ojha A.K.	2024	180	105082
779.	Journal of Glaciology	Glacier mass balance and its climatic and non-climatic drivers in the Ladakh region	Mandal A, Vishwakarma BD, Angchuk T, Azam MF, Garg PK,	2024		1-23



		during 2000–2021 from remote sensing data	Soheb M			
780.	Chemosphere	Investigation of sources and atmospheric transformation of carbonaceous aerosols from Shyamnagar, eastern Indo-Gangetic Plains: Insights from $\delta^{13}\text{C}$ and carbon fractions	Singh G.K.; Qadri A.M.; Paul D.; Gupta T.; Mukherjee S.; Chatterjee A.	2023	326	138422
781.	Lithos	Sm-Nd isotope systematics of Indian shales constrain the growth of continental crust: Implication for supercontinent cycle and mantle plume activity	Ray E.; Paul D.; Bhutani R.; Chakrabarti R.; Yang S.	2023	442-443	107051
782.	Geochemistry	Geochemical evidence for west-flowing paleo-Yamuna River in northwest India	Amir M.; Paul D.; Anchana P.; Tarique M.; Rahaman W.	2023	83	126021

		during the late Quaternary and its implication for the Harappan Civilization				
783.	Journal of Petrology	Petrogenesis of the Girnar Complex in the Deccan Traps Province, India	Halder M.; Paul D.; Stracke A.	2023	64	013
784.	Journal of Plant Growth Regulation	Nitrogen Assimilation and Fractionation Dynamics in Wheat Genotypes Grown in Different Mediums	Paul D.; Satuluri S.; Sinha S.K.	2023	42	7435-7451
785.	Geochemistry	Origin of silicic rocks of the Deccan Traps continental flood basalt province: Inferences from field observations, petrography, and geochemistry	Halder M.; Paul D.; Yang S.	2023	83	125958
786.	Environmental Monitoring and Assessment	Geochemical evolution of dissolved trace elements in space and time in the Ramganga River,	Sen I.S.; Nizam S.; Ansari A.; Bowes M.; Choudhary B.; Glendell	2023	195	1150

		India	M.; Ray S.; Scott M.; Miller C.; Wilkie C.; Sinha R.			
787.	Earth and Planetary Science Letters	<sup>26</sup> Al and <sup>10</sup> Be concentrations from alluvial drill cores across the Indo-Gangetic plain reveal multimillion-year sediment-transport lag times	Bhattacharjee S.; Bookhagen B.; Sinha R.; Wieser A.; Marchhart O.	2023	619	118318
788.	Geological Journal	Identifying moisture transport pathways for north- west India	Joshi S.K.; Kumar S.; Sinha R.; Rai S.P.; Khobragade S.; Rao M.S.	2023	58	4428-4440
789.	Earth Surface Processes and Landforms	Channel morphodynamics and sediment budget of the Lower Ganga River using a hydrogeomorpholo gical approach	Sinha R.; Singh S.; Mishra K.; Swarnkar S.	2023	48	14-33
790.	Communications Earth and Environment	Hyperconcentrated floods cause extreme gravel	Quick L.; Creed M.J.; Sinclair H.D.;	2023	4	297

		transport through the sandy rivers of the Gangetic Plains	Attal M.; Borthwick A.G.L.; Sinha R.			
791.	Remote Sensing	Towards a Guideline for UAV-Based Data Acquisition for Geomorphic Applications	Sarkar D.; Sinha R.; Bookhagen B.	2023	15	3692
792.	Fluvial Megafans on Earth and Mars. Cambridge University Press	Megafans of the Indo-Gangetic plains: a review of decades of research	Sinha, R. Mishra, K. and Tandon, S.K.	2023		184-201
793.	Fluvial Megafans on Earth and Mars. Cambridge University Press	The Kosi Megafan: morphology, dynamics and sedimentology	Sinha, R., Kumar Gaurav, Mishra, K. and Gupta, S.	2023		202-218
794.	Sustainability	Sustainable silt management in the Lower Kosi River, North Bihar, India: demand assessment, investment model and socio-economic development	Sinha, R., Mishra, K., Salunke, P. and Sunderajan, V.	2023	15	14952
795.	Communications Earth	Hyperconcentrated floods cause	Quick, L., Sinclair, H.,	2023	4	297

	and Environment	extreme gravel transport through the sandy rivers of the Gangetic Plains.	Creed, M., Attal, M., and Sinha, R			
796.	Landslides	Geological and geotechnical investigations of the Sataun landslide along the Active Sirmauri Tal Fault, Sataun, Northwestern Himalaya, India	Thakur M.; Kumar N.; Dhiman R.K.; Malik J.N.	2023	20	1045-1063
797.	Journal of Asian Earth Sciences	Replies to comments raised by Singh T., and Rajendran C.P. On paper “Geological evidence of paleo-earthquakes on a transverse right-lateral strike-slip fault along the NW Himalayan front: Implications towards fault segmentation and strain partitioning” by Malik et al. (2023), [JAES, 244, 105518]	Malik J.N.; Arora S.; Gadhavi M.S.; Singh G.; Kumar P.; Johnson F.C.; Thakur M.; Raof J.	2023	255	105795

798.	Journal of Archaeological Science: Reports	Ground penetrating radar investigations of buried remnants at ancient capital cities of Panchala and Vatsa kingdoms spread along Ganga-Yamuna doab of India from 600 BCE to 1100 CE	Satuluri S.; Malik J.N.; Kumar A.; Vikrama B.; Rai G.K.	2023	52	104271
799.	Pure and Applied Geophysics	Arc-Parallel Shear and Orogenic Deformation Along the Oblique Himalayan Convergent Plate Margin: Implications from Topographic- and Gradient-Anomaly Profiling in the Himalaya	Kumar P.; Malik J.N.; Gahalaut V.K.	2023	180	2169-2189
800.	Coasts, Estuaries and Lakes: Implications for Sustainable Development	Climatic Variability and Anthropogenic Forcing on Marine Ecosystems: Evidence from the Lakshadweep Archipelago	Fousiya A.A.; Malik J.N.; Chakraborty S.	2023		93-108

801.	Quaternary International	Signatures of 16th and 19th centuries paleo-earthquakes along the Himalayan Frontal Thrust (HFT), NW Himalaya, India: Implications to seismic hazard assessment	Malik J.N.; Mohanty A.; Sahoo S.; Gadhavi M.S.; Dhali M.; Arora S.; Naik S.P.	2023	656	37-47
802.	Journal of Maps	Plio-Quaternary coastal landscape evolution of north-western Sicily (Italy)	Parrino N.; Burrato P.; Sulli A.; Gasparo Morticelli M.; Agate M.; Srivastava E.; Malik J.N.; Di Maggio C.	2023	19	2159889
803.	Proceedings of the Indian National Science Academy	General order kinetics model for OSL rock surface exposure dating	Biswas R.H.; Pathan A.N.; Malik J.N.	2023	89	644-654
804.	Journal of Maps	Extremely fast Holocene coastal landscape evolution in the Kachchh Upland (NW India): Clues from a multidisciplinary	Srivastava E.; Malik J.N.; Parrino N.; Burrato P.; Sharma N.; Gadhavi M.; Sulli A.; Di Maggio C.;	2023	19	2167617

		review	Morticelli M.G.			
805.	Journal of the Geological Society of India	Morphotectonic and Geomorphic Study of the Sub- Himalaya in the Haridwar-Kotdwar Region, India: Implications for the Tectonic Evolution and Segment Variability	Kralia A.; Thakur M.; Malik J.N.	2023	99	1521-1531
806.	Journal of Asian Earth Sciences	Geological evidence of paleo- earthquakes on a transverse right- lateral strike-slip fault along the NW Himalayan front: Implications towards fault segmentation and strain partitioning	Malik J.N.; Arora S.; Gadhavi M.S.; Singh G.; Kumar P.; Johnson F.C.; Thakur M.; Raoof J.	2023	244	105518
807.	Tectonics	Evidence of Strain Accumulation and Coupling Variation in the Himachal Region of NW Himalaya From Short Term Geodetic	Kumar P.; Malik J.N.; Gahalaut V.K.; Yadav R.K.; Singh G.	2023	42	e2022TC007690



		Measurements				
808.	Frontiers in Earth Science	Active faults studies in Delhi and national capital region (NCR): Inferences from satellite data and field investigations	Dhali M.; Gadhavi M.S.; Mohan K.; Narayana P.P.; Malik J.N.	2023	11	1092927
809.	Frontiers in Earth Science	Reaction-diffusion modelling of petrological mixing mechanisms in the evolution of continental crusts	Baruah A.; Roy M.K.; Mandal N.; Misra S.	2023	11	1115103
810.	Frontiers in Earth Science	Concurrent influence of geological parameters on the integrated nano-pore structure and discretized pore families of the petroliferous Cambay shale assessed through multivariate dependence measure	Bal A.; Misra S.; Mukherjee M.; Dutta T.K.; Sen D.; Patra A.; Raja E.	2023	11	1157122
811.	Physics and Chemistry of Minerals	Nanomechanics of minerals: understandings and	Mukherjee R.; Misra S.	2023	50	10

		developments through instrumented nanoindentation techniques				
812.	Journal of Structural Geology	Superplastic deformation inside the knife-sharp shear bands in mid-crustal granites	Sikdar A.; Dutta D.; Misra S.	2023	177	104980
813.	Science of the Total Environment	Machine learning based downscaling of GRACE-estimated groundwater in Central Valley, California	Agarwal V.; Akyilmaz O.; Shum C.K.; Feng W.; Yang T.-Y.; Forootan E.; Syed T.H.; Haritashya U.K.; Uz M.	2023	865	161138
814.	Geocarto International	Towards quantifying the relative tectonic activity in the Trans-Yamuna segment of NW Himalaya	Ghosh S.; Philip G.; Prasad A.K.; Syed T.H.; Mohanty S.P.	2023	38	2155712
815.	Journal of Geophysical Research: Planets	Lunar Impact Craters: New Perspectives From Full-Polarimetric Analysis of	Putrevu D.; Chakraborty T.; Mukhopadhyay J.; Syed	2023	128	e2023JE007745

		Chandrayaan-2 Dual-Frequency SAR Data	T.H.; Bhiravarasu S.S.; Das A.; Pandey D.K.; Misra A.			
816.	ACS Omega	Microplastics in Freshwater Ecosystems of India: Current Trends and Future Perspectives	Neelavannan K.; Sen I.S.	2023	8	34235-34248
817.	Global and Planetary Change	Carbon emissions from emerging glacier-fed Himalayan lakes	Shukla T.; Sen I.S.; Sundriyal S.	2023	225	104134
818.	Sustainability (Switzerland)	Assessing Impacts of Land Use and Land Cover (LULC) Change on Stream Flow and Runoff in Rur Basin, Germany	Shukla S.; Meshesha T.W.; Sen I.S.; Bol R.; Bogena H.; Wang J.	2023	15	9811
819.	Environmental Monitoring and Assessment	Geochemical evolution of dissolved trace elements in space and time in the Ramganga River, India	Sen I.S.; Nizam S.; Ansari A.; Bowes M.; Choudhary B.; Glendell M.; Ray S.; Scott M.; Miller C.;	2023	195	1150

			Wilkie C.; Sinha R.			
820.	Frontiers in Marine Science	Editorial: Human impacts on river catchments and coastal ecosystems: A meta-ecosystem perspective	Cañedo- Argüelles M.; Brito A.C.; Sen I.; Roy R.	2023	10	1168296
821.	Environmental Advances	Microplastics in the Ganga- Brahmaputra delta: Sources and Pathways to the Sundarbans Biosphere Reserve - an UNESCO World Heritage Centre	Neelavannan K.; Sen I.S.; Sinha N.; Thakur A.K.; Misra S.	2023	11	100350
822.	Geochemistry, Geophysics, Geosystems	CO2 Consumption Rates in the Glacierized Himalayan Headwaters: The Importance of Sulfuric and Nitric Acid-Mediated Chemical Weathering Reactions in Geologic Carbon Cycle	Roy N.; Sen I.S.	2023	24	e2023GC01091 9

823.	Environmental Geochemistry and Health	Occurrence, sources, and spatial distribution of fluoride in the Ganga alluvial aquifer, India	Nizam S.; Acharya T.; Dutta S.; Sen I.S.	2023	45	1975-1989
824.	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	Dixit A.; Mandal A.; Ganguli S.S.	2023	5	100235
825.	Groundwater for Sustainable Development	Identification of potential artificial groundwater recharge sites in an alluvial setting: A coupled electrical resistivity tomography and sediment characterization study	Mishra U.; Mohapatra A.K.; Mandal A.; Singh A.	2023	20	100875
826.	Geophysics	Genetic- evolutionary adaptive moment estimation-based	Dixit A.; Mandal A.; Ganguli S.S.;	2023	88	R225-R242

		semisupervised deep sequential convolution network for seismic impedance inversion: Application and uncertainty analysis	Sanyal S.			
827.	Tectonophysics	Crustal structure beneath the Alcock Seamount in the Andaman Sea	Singha P.; Dewangan P.; Ghosal D.; Raju K.A.K.; Aswini K.K.; Yatheesh V.; Mukhopadhy ay R.; Mandal S.	2023	862	229979
828.	Acta Geophysica	Algorithms for time–frequency imaging and analysis: introduction to mixed-model spectral decomposition	Pant A.; Ghosal D.; Puryear C.; Verma S.N.	2023	72	637-653
829.	Geo-Marine Letters	Investigating Narcondam offshore using high-resolution seismic reflection	Srivastav H.K.; Ghosal D.	2023	43	18

		data				
830.	Tectonophysics	Lithospheric architecture beneath the Amsterdam-St. Paul plateau, Southern Indian Ocean using the integrated gravity, magnetic and seismological study	Kumar P.; Singha P.; Ghosal D.; Jacob J.; Gupta S.	2023	863	229989
831.	Journal of Applied Geophysics	Shallow subsurface imaging across the Himalayan Frontal Thrust (HFT) analysing ambient noise data from a riverine source	Verma S.N.; Ghosal D.; Vats V.; Gupta A.	2023	210	104943
832.	Advances of Royal society of chemistry	Nature inspired synthesis of magnetite nanoparticle aggregates from natural berthierine.	Alva-Valdivia, L., Agarwal, A., Urrutia-Fucugauchi, J., Hernández-Cardona, A.	2023	13	32054-32062
833.	Journal of Earth System Science	Test of semi-automated methods for extraction of the geological surface	Panigrahi B., Srivastava D. C., Tiwari S., Agarwal A.	2023	132	

		orientations.	and Rit B.			
834.	Journal of Geophysical Research: Planets	On the Emplacement of the Impact Melt at the Dhala Impact Structure, India	Joshi G.; Phukon P.; Agarwal A.; Ojha A.K.	2023	128	e2023JE007840
835.	Nature Geoscience	Shallow-water hydrothermal venting linked to the Palaeocene–Eocene Thermal Maximum	Berndt C.; Planke S.; Alvarez Zarikian C.A.; Frieling J.; Jones M.T.; Millett J.M.; Brinkhuis H.; Bünz S.; Svensen H.H.; Longman J.; Scherer R.P.; Karstens J.; Manton B.; Nelissen M.; Reed B.; Faleide J.I.; Huisman R.S.; Agarwal A.; Andrews G.D.M.; Betlem P.; Bhattacharya	2023	16	803-809



			J.; Chatterjee S.; Christopoulou M.; Clementi V.J.; Ferré E.C.; Filina I.Y.; Guo P.; Harper D.T.; Lambart S.; Mohn G.; Nakaoka R.; Tegner C.; Varela N.; Wang M.; Xu W.; Yager S.L.			
836.	Geology	Eustatic change modulates exhumation in the Japanese Alps	King G.E.; Ahadi F.; Sueoka S.; Herman F.; Anderson L.; Gautheron C.; Tsukamoto S.; Stalder N.; Biswas R.; Fox M.; Delpech G.; Schwartz S.; Tagami T.	2023	51	131-135

837.	Journal of Earth System Sciences	A numerical investigation of fluid flow path evolution during cataclastic flow in reservoir rocks	Kamal Nanda, Suaiba Mufti, Arghya Das and Santanu Misra	2023		
838.	Frontiers in Sustainable Food Systems	Climate change, water and agriculture linkages in the upper Indus basin: A field study from Gilgit-Baltistan and Leh-Ladakh	Tuladhar S.; Hussain A.; Baig S.; Ali A.; Soheb M.; Angchuk T.; Dimri A.P.; Shrestha A.B.	2023	6	1012363

**Department of Economic Sciences**

839.	Journal of Economic Behavior & Organization	Castes, Courts and Business	Chakraborty, T., Mukherjee, A., Saha, S., & Shukla, D. (2023).			
840.	Review of Economics of the Household	Intergenerational consequences of spousal violence: effect on nutritional status of children	Debayan Pakrashi and Sarani Saha			
841.	Emerging Markets Review	Do recessions induce the Schumpeterian	Saini, S., Ahmad, W., &	2024	59	In Press

		creative destruction? Micro-evidence from India	Salahuddin. G			
842.	Global Finance Journal	FinTech entrepreneurial ecosystem in India: Role of incubators and accelerators	Kaur, M., Ahmad, W., Hari, K. S., & Kattumuri, R	2024	60	In Press
843.	Journal of Asian Economics	Credit Creation, Credit Destruction and Credit Reallocation: Firm-level Evidence from India	Saini, S., & Ahmad, W.	2024	92	In Press
844.	Empirical Economics	Public expenditure multiplier across business cycle phases in an emerging economy: new empirical evidence and dimension	Sachdeva, P., Ahmad, W., & Bhanumurthy, N. R	2023	66	279-299
845.	Indian Economic Review	Uncovering time variation in public expenditure multipliers: new evidence	Sachdeva, P., Ahmad, W. & Bhanumurthy, N.R	2023	58	445-483
846.	Research in International Business and Finance	Financial Networks and Systemic Risk Vulnerabilities: A	Ahmad, W., Tiwari, S. R., Wadhvani,	2023	65	101962

		Tale of Indian Banks	A., Khan, M. A., & Bekiros, S			
847.	Journal of Mathematical Economics	Transitions between equilibria in bilingual games under probit choice	Arigapudi, S	2024	111	102956
848.	Economics Letters	Emergence of trust in the trust game under best experienced payoff dynamics	Arigapudi, S., & Lahkar, R	2024	236	111620
849.	Economics Letters	Mother's Widowhood and Children's Education: Evidence from India	Pragati and Thakur, S	2023	232	111316
850.	Studies in Microeconomics	Efficiency of Indian Thermal Power Plants and Suspended Particulate Matter: Findings Across Technological Assumptions and DEA Models	Sengupta, D., & Mukherjee, D.	2023	11(3)	277-300
851.	Social Choice and Welfare	Worst-case efficient and budget-balanced mechanism for	Vikram, A.	2024	62	89-108

		single-object allocation with interdependent values				
852.	Journal of Economic Behavior & Organization	The dynamics of leverage and the belief distribution of wealth	Bikramaditya Datta and Rajiv Sethi	2023	212	20-31
853.	Groundwater for Sustainable Development	Water stress and the expenditure in zoning violated areas of Chennai: An empirical investigation	Murali Prasad Panta, Mayank Gupta, Tarun Gupta and Badri Narayanan	2023	20	
854.	Emerging Markets Finance and Trade	Assessing the Effects of Macroprudential Policy on the Indian Macroeconomy.	Kumar, Sanjiv., & Prabheesh, K. P.	2024	60(6)	182-1208
855.	Emerging Markets Finance and Trade	Assessing the Impact of US Monetary Policy on Foreign Currency Debt and Credit Growth in Emerging Markets During the COVID-19 Pandemic.	Prabheesk, k.p., Wickramarachchi, V., and Kumar Sanjiv	2024	-	-

856.	The R Journal	bqror: An R Package for Bayesian Quantile Regression in Ordinal Models	Prajual Maheshwari, Mohammad Arshad Rahman	2023	15(2)	39-55
857.	India Quarterly	Assessment of Possible Economic Alignment Between G20 Nations with Special Focus on India, G7 and G12: A General Equilibrium Analysis.	Srivastava, A., Mathur, S. K., Mathur, R., & De, P.	2023	79(4)	535-551
858.	Foreign Trade Review	" Ex-Ante Evaluation of Indias Trade Alliance with Indo Pacific: A General Equilibrium Analysis",	Archana Srivastava, Somesh K Mathur and Prabir De	2023	58(2)	
859.	Economic & Political Weekly	"An Ex Ante Evaluation of Indo-Pacific Economic Framework A General Equilibrium Analysis"	Archana Srivastava, Somesh K Mathur and Prabir De	2023	LVIII no 4	
860.	Economic Modelling	Reconciling the mixed evidence in	Atrayee Choudhury,	2023	125	106347

		the fiscal decentralization- government size nexus using panel quantile regression	Sohini Sahu			
<b>Department of Electrical Engineering</b>						
861.	IEEE Networking Letters	Near-Perfect Coverage Manifold Estimation in Cellular Networks via Conditional GAN	W. U. Mondal, V. Goyal, S. V. Ukkusuri, G. Das, D. Wang, M. -S. Alouini, and V. Aggarwal	2024		
862.	IEEE Journal of the Electron Devices Society	A Comprehensive RF Characterization and Modeling Methodology for the 5nm Technology Node FinFETs	Parihar S.S.;Pampori A.;Dwivedi P.;Huang J.;Wang W.;Imura K.;Hu C.;Chauhan Y.S.	2023		
863.	Defence Science Journal	A Frequency Tunable Dielectric Resonator Antenna with Reduction of Cross Polarisation for Wi-MAX and Sub-6 GHz 5G Applications	Kumar R.;Chandra A.;Mishra N.;Chaudhar y R.K.	2023	73	475-486

864.	IEEE Transactions on Electron Devices	A Large-Signal SPICE Model for a Dual-Gate GaN RF Switch With off-State Harmonic Control	Pampori A.;Nazir M.S.;Dangi R.;Chou M.L.;Lee G.Y.;Chauhan Y.S.	2023		
865.	International Journal of Antennas and Propagation	A Miniaturized Dual-Band Short-Ended ZOR Antenna with Backed Ground Plane for Improved Bandwidth and Radiation Efficiency	Kumar R.;Chandra A.;Thummaluru S.R.;Khan M.M.;Chaudhary R.K.	2023	2023	
866.	IEEE Transactions on Power Systems	A Novel Interior-Exterior Approach for the TSO-DSO based Bilevel Optimal Power Flow	Sharma P.A.;Mohapatra A.;Sharma A.	2023		
867.	IEEE Transactions on Instrumentation and Measurement	A Novel Piecewise Riccati-Based SAR Microwave Imaging Technique for the Detection of Objects Inside the Layered Media	Paul S.;Akhtar M.J.	2023	72	
868.	IEEE Transactions on Power Delivery	A Novel Two-stage Partitioning based	Bansal Y.;Sodhi	2023		



		Reconfiguration Method for Active Distribution Networks	R.;Chakrabarti S.;Sharma A.			
869.	IEEE Transactions on Electron Devices	A Physics-Based Compact Model for Silicon Cold-Source Transistors	Kar A.;Nandan K.;Chauhan Y.S.	2023		
870.	IEEE Internet of Things Journal	A SIW-Cavity-Backed Wideband Circularly Polarized Antenna Using Modified Split-Ring Slot as a Radiator for mm-Wave IoT Applications	Pandey A.K.;Sahu N.K.;Gangwar R.K.;Chaudhary R.K.	2023		
871.	IEEE Transactions on Electron Devices	A Self-Consistent Approach Based on Bayesian Deconvolution for Trapping Time Constant Analysis: A Demonstration to Analyze $\Delta V_{TH}$	Singh S.K.;Wu T.L.;Chauhan Y.S.	2024		

		&lt;/inline- formula&gt; Transients in p- GaN Gate Power HEMTs				
872.	IEEE Transactions on Network and Service Management	A Socially-Aware Radio Map Framework for Improving QoS of UAV-Assisted MEC Networks	Tripathi S.;Pandey O.J.;Cenkera maddi L.R.;Hegde R.M.	2023	20	342-356
873.	Physica Status Solidi (A) Applications and Materials Science	A Theoretical Study of Negative Capacitance Field- Effect Transistors Using Ferroelectrics Having First- and Second-Order Phase Transitions	Pahariya A.;Dutta A.K.	2023		
874.	IEEE Transactions on Industrial Informatics	A Weighted Deep Neural Network for Processing Measurements for State Estimation	Patel V.S.;Chakrab arti S.;Sharma A.	2023		
875.	Electric Power Systems Research	A new continuous variables and convex relaxation based formulation for reconfiguration of unbalanced	Paul S.K.;Mohapa tra A.;Das D.C.	2024	228	

		mutually coupled active distribution networks				
876.	Multimedia Tools and Applications	A novel low complexity retinex-based algorithm for enhancing low-light images	Bansal S.;Bansal R.K.;Bhardwaj R.	2023		
877.	Electrical Engineering	A robust generalized soft-root-sign adaptive filter algorithm for a grid-coupled PV system	Karthik M.;Naik N.V.R.;Panda A.K.	2023		
878.	IEEE Sensors Letters	Active Matrix Resistive Sensor Array With Reduced Dependence on TFT Channel Resistance	Firoz N.;Mazhari B.	2023		
879.	IEEE Transactions on Sustainable Energy	An Adaptive BESS Controller for Stability Enhancement of Islanded Low Voltage Microgrids	Som S.;Chakrabarti S.;Sahoo S.R.	2023		
880.	IEEE Transactions on Smart Grid	An Efficient Modular Optimization Scheme for	Vijayan V.;Mohapatra A.;Singh S.N.;Dewang	2023		

		Unbalanced Active Distribution Networks with uncertain EV and PV Penetrations	an C.L.			
881.	IEEE Access	An Improved Four-Port Multifunctional MIMO Antenna for Integrated Cognitive Radio System	Jain P.;Jaiswal R.K.;Srivastava K.V.;Ghosh S.	2023	11	66201-66211
882.	IEEE Transactions on Circuits and Systems II: Express Briefs	An Optimal Reflective Elements Grouping Model for RIS-Assisted IoT Networks Using Q-Learning	Tripathi S.;Pandey O.J.;Hegde R.M.	2023	70	3214-3218
883.	AEU - International Journal of Electronics and Communications	An anisotropic PRS for squinting the radiation pattern with gain improvement of MIMO system	Kumari T.;Suman K.K.;Gangwar R.K.;Chaudhary R.K.	2024	176	
884.	Energy	An improved decentralized scheme for incentive-based demand response from residential	Dewangan C.L.;Vijayan V.;Shukla D.;Chakrabarti S.;Singh S.N.;Sharma	2023	284	

		customers	A.;Hossain M.A.			
885.	IEEE Transactions on Communications	Analysis And Optimization of Hardware Impaired FD Rician-Faded mMIMO Systems	Kumar V.;Amudala D.N.;Budhira ja R.	2023		
886.	IEEE Transactions on Communications	Analysis And Optimization of URLLC-Enabled Full Duplex Hybrid Massive MIMO Relaying	Munagala R.;Amudala D.N.;Budhira ja R.	2023		
887.	IEEE Transactions on Vehicular Technology	Analysis of URLLC-Enabled Hardware-Impaired Massive MIMO Relaying With D2D Users	Palla R.K.;Amudal a D.N.;Budhira ja R.	2024		
888.	IEEE Transactions on Circuits and Systems II: Express Briefs	Analysis of the Convergence of Biased Contribution Index: A Fairness Index	Awasthi S.K.;Singh Y.N.	2023		
889.	IEEE Journal of the Electron Devices Society	Analytical Modeling of Threshold Voltage and Subthreshold Slope for 3D NAND Flash Memory With a	Kumar A.;Sahay S.	2023		

		Non-Uniform Doping Profile				
890.	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.	2024		
891.	IEEE Open Journal of Vehicular Technology	Asynchronous Distributed Coordinated Hybrid Precoding in Multi-Cell mmWave Wireless Networks	Jafri M.;Srivastava S.;Kumar S.;Jagannatham A.K.;Hanzo L.	2024	5	200-218
892.	IEEE Transactions on Electron Devices	BEOL FeFET SPICE-Compatible Model for Benchmarking 3-D Monolithic In-Memory TCAM Computation	Kumar S.;Prakash O.;Chauhan Y.S.;Amrouch H.	2023		
893.	IEEE Transactions on Sustainable Energy	BESS Reserve-Based Frequency Support During Emergency in Islanded Residential Microgrids	Som S.;Chakrabarti S.;Sahoo S.R.;Ghosh A.;Liang X.	2023		

894.	IEEE Transactions on Electron Devices	Bilayer Synthetic Antiferromagnetic Skyrmion-Based Muller C-Element	Kaur J.;Saurabh S.;Sahay S.	2023		
895.	Journal of Applied Physics	Bilayer vanadium dioxide thin film with elevated transition temperatures and high resistance switching	Dutta A.;Ashok P.;Verma A.	2023	134	
896.	International Journal of Electrical Power and Energy Systems	Blockchain-based cyber-security enhancement of cyber-physical power system through symmetric encryption mechanism	Shukla D.;Chakrabarti S.;Sharma A.	2024	155	
897.	IEEE Transactions on Communications	Channel Characterization and Performance of a 3-D Molecular Communication System With Multiple Fully-Absorbing Receivers	Sabu N.V.;Gupta A.K.;Varshney N.;Jindal A.	2023	71	714-727
898.	IEEE Transactions on Electron Devices	Characterization and Modeling of 14-/16-nm FinFET-	Kar A.;Parihar S.S.;Huang	2023		

		Based LDMOS	J.Z.;Zhang H.;Wang W.;Imura K.;Chauhan Y.S.			
899.	Nature Communications	Charge-altering releasable transporters enhance mRNA delivery in vitro and exhibit in vivo tropism	Li Z.;Amaya L.;Pi R.;Wang S.K.;Ranjan A.;Waymout h R.M.;Blish C.A.;Chang H.Y.;Wender P.A.	2023	14	
900.	IEEE Electron Device Letters	Charge-based Flicker Noise Modeling of GaN HEMTs down to Cryogenic Temperatures	Nazir M.S.;Pampor i A.H.;Dangi R.;Ahsan S.A.;Chauha n Y.S.	2023		
901.	AEU - International Journal of Electronics and Communications	Circularly polarized three- element MIMO antenna with diversity and polarization reconfigurability techniques	Kumar Jaiswal R.;Kumar Dutta R.;Das G.;Kumar Ojha A.;Sim C.Y.D.;Vaibh av Srivastava K.	2023	162	
902.	IEEE Transactions on Electron Devices	Comprehensive Modeling of	Kumar S.;Thomann	2023		



		Switching Behavior in BEOL FeFET for Monolithic 3-D Integration	S.;Prakash O.;Ni K.;Chauhan Y.S.;Amrouch H.			
903.	IEEE Transactions on Vehicular Technology	Cooperative Hybrid Transmit Beamforming in Cell-Free mmWave MIMO Networks	Jafri M.;Srivastava S.;Venkateswara N.K.D.;Jagannathan A.K.;Hanzo L.	2023	72	6023-6038
904.	IEEE Communications Letters	Covariance-Free Variational Bayesian Learning For Correlated Block Sparse Signals	Rajoriya A.;Sharma A.;Budhiraja R.	2023		
905.	IEEE Transactions on Circuits and Systems I: Regular Papers	Cross-Layer Reliability Modeling of Dual-Port FeFET: Device-Algorithm Interaction	Kumar S.;Chatterjee S.;Thomann S.;Chauhan Y.S.;Amrouch H.	2023		
906.	IEEE Transactions on Circuits and Systems I: Regular Papers	Cryogenic CMOS for Quantum Processing: 5-nm FinFET-Based SRAM Arrays at 10 K	Parihar S.S.;van Santen V.M.;Thomann S.;Pahwa G.;Chauhan	2023		

			Y.S.;Amrouch H.			
907.	IEEE Transactions on Quantum Engineering	Cryogenic Embedded System to Support Quantum Computing: From 5nm FinFET to Full Processor	Genssler P.R.;Klemme F.;Parihar S.S.;Brandhofer S.;Pahwa G.;Polian I.;Chauhan Y.S.;Amrouch H.	2023		
908.	IEEE Transactions on Communications	Data-Aided CSI Estimation Using Affine-Precoded Superimposed Pilots in Orthogonal Time Frequency Space Modulated MIMO Systems	Mehrotra A.;Srivastava S.;Jagannatham A.K.;Hanzo L.	2023	71	4482-4498
909.	IEEE Transactions on Smart Grid	Data-Driven Sparsification and Multi-Resolution Analysis Based Framework for Load Identification	Mitra A.;Ghosh S.;Mohapatra A.;Chakrabarti S.	2023		
910.	IEEE Transactions on Smart Grid	Data-Driven Strategy for Appliance Identification Using Phase-Space	Ghosh S.;Mitra A.;Chakrabarti S.;Sharma A.	2023		

		Reconstruction				
911.	IEEE Open Journal of the Communications Society	Decision Fusion in Centralized and Distributed Multiuser Millimeter-Wave Massive MIMO-OFDM Sensor Networks	Kumar P.S.;Chawla A.;Srivastava S.;Jagannatham A.K.;Hanzo L.	2024	5	185-201
912.	IEEE Transactions on Instrumentation and Measurement	Decomposition-Transformation Assisted Optimized Heterogeneous Classification Strategy in NILM	Ghosh S.;Mitra A.;Chakrabarti S.;Sharma A.	2023		
913.	Applied Optics	Deep learning assisted non-contact defect identification method using diffraction phase microscopy	Narayan S.K.;Vithin A.V.S.;Gannavarpu R.	2023	62	5433-5442
914.	Optics and Lasers in Engineering	Deep learning based single shot multiple phase derivative retrieval method in multi-wave digital holographic interferometry	Satya Vithin A.V.;Ramaiah J.;Gannavarpu R.	2023	162	

915.	IEEE Communications Letters	Design And Analysis of MMSE Precoder For Dual-Polarized Cell-Free Massive MIMO Systems	Chatterjee S.;Dey S.;Budhiraja R.	2023		
916.	IEEE Transactions on Communications	Design And Optimization of Hardware Impaired Multi-Cell Rician-Faded mMIMO Systems With Pilot Decontamination Precoding	Amudala D.N.;Kesarwani H.;Tentuv.;Budhiraja R.	2023		
917.	Optical and Quantum Electronics	Design and modeling of an efficient high-speed InGaAs/InP QW waveguide-photodetector	Malik D.;Das U.	2023	55	
918.	Microwave and Optical Technology Letters	Design of slot radiating RF planar sensor for homogeneity check of dielectric discontinuity	Banerjee A.;Akhtar M.J.	2023		
919.	Optics Letters	Determining the transfer function of a reconstructive spectrometer using measurements at	Sharma N.;Khare K.;Gupta S.	2023	48	3753-3756

		two wavelengths				
920.	Image and Vision Computing	Distilling knowledge for occlusion robust monocular 3D face reconstruction	Tiwari H.;Kurmi V.K.;Subramanian V.K.;Chen Y.S.	2023	137	
921.	Applied Physics Letters	Dynamic multi-color switching using ultrathin vanadium oxide on aluminum-based asymmetric Fabry-Pérot resonant structure	Saini S.;Ashok P.;Verma A.	2024	124	
922.	Microwave and Optical Technology Letters	ENG-TL inspired dual-polarized antenna using curved meander, two-arm Archimedean spirals and CSRR mushroom	Ameen M.;Chaudhary R.K.	2023	65	1778-1786
923.	IEEE Open Journal of Vehicular Technology	Energy Efficiency Optimization in Reconfigurable Intelligent Surface Aided Hybrid Multiuser mmWave MIMO	Singh J.;Srivastava S.;Yadav S.P.;Jagannatham A.K.;Hanzo L.	2023	4	581-589

		Systems				
924.	IEEE Communications Letters	Fast Correlated SBL Algorithm For Estimating Correlated Sparse Millimeter Wave Channels	Pisharody J.N.;Rajoriya A.;Gupta N.;Budhiraja R.	2023		
925.	Solid-State Electronics	Ferroelectric FDSOI FET modeling for memory and logic applications	Chatterjee S.;Kumar S.;Gaidhane A.;Dabhi C.K.;Chauhan Y.S.;Amrouch H.	2023	200	
926.	IEEE Transactions on Electron Devices	Ferroelectric FET-Based Time-Mode Multiply-Accumulate Accelerator: Design and Analysis	Rafiq M.;Kaur T.;Gaidhane A.;Chauhan Y.S.;Sahay S.	2023		
927.	Applied Optics	Fiber-optic frequency comb generation using low-seed power FWM and Brillouin-assisted power equalization	Paul A.;Mishra T.;Krishnamurthy P.K.	2023	62	5126-5134
928.	Nature Communications	First demonstration	Soliman	2023	14	

		of in-memory computing crossbar using multi-level Cell FeFET	T.;Chatterjee S.;Laleni N.;Müller F.;Kirchner T.;Wehn N.;Kämpfe T.;Chauhan Y.S.;Amrouh H.			
929.	Journal of Electromagnetic Waves and Applications	Flexible printed electrically small microwave resonator for automated displacement tracking	Banerjee A.;Fatima F.;Tiwari N.K.;Akhtar M.J.	2023		
930.	ACS Applied Nano Materials	Flexible, Stretchable, and Lightweight Hierarchical Carbon-Nanotube-Decorated Carbon Fiber Structures for Microwave Absorption	Tahalyani J.;Akhtar M.J.;Kar K.K.	2023		
931.	ACS Applied Nano Materials	Flexible, Stretchable, and Thin Films Based on Functionalized Carbon Nanofiber/Graphene Nanostructures	Tahalyani J.;Akhtar M.J.;Kar K.K.	2023		

		for Electromagnetic Interference Shielding				
932.	IEEE Sensors Letters	Free-Space Time-Domain Approach for Dielectric Imaging of Biological Tissues	Mazumder A.;Khasnobish A.;Chakravarty T.;Akhtar M.J.	2023	7	04-Jan
933.	IEEE Access	Frequency Selective Hybrid Beamforming and Optimal Power Loading for Multiuser Millimeter Wave Cognitive Radio Networks	Chatterjee I.;Singh J.;Srivastava S.;Jagannatham A.K.	2023	11	96052-96067
934.	IEEE Transactions on Wireless Communications	Fundamentals of Vehicular Communication Networks with Vehicle Platoons	Pandey K.;Perumalla K.R.;Gupta A.K.;Dhillon H.S.	2023		
935.	Engineering Applications of Artificial Intelligence	Guided sampling-based evolutionary deep neural network for intelligent fault diagnosis	Sharma A.K.;Verma N.K.	2024	128	



936.	IEEE Transactions on Communications	Hardware-Impaired Rician-Faded Cell-Free mMIMO Systems With LSFD And Channel Aging: SE Analysis And Optimization	Tentu V.;Amudala D.N.;Chattopadhyay A.;Budhiraja R.	2023		
937.	IEEE Transactions on Industry Applications	Harmonic and Interharmonic Estimation using Poincaré; Filtering Assisted ESPRIT Method	Srivastava A.K.;Tiwari A.N.;Singh S.N.	2023		
938.	International Journal of Power Electronics	Harmonic/inter-harmonics detection using modified exact model order-based ESPRIT	Ankit Kumar Srivastava ., Sri Niwas Singh ., Praveen Prakash Singh ., A.N. Tiwari .,	2023	17	218-233
939.	International Journal of Electrical Power and Energy Systems	High-speed sub-cycle algorithm for estimation of decaying DC component in current measurements	Ravi Kumar B.;Mohapatra A.;Chakrabarti S.;Kumar A.	2023	151	

940.	IEEE Transactions on Electron Devices	Hybrid CMOS-Ferroelectric FET-Based Image Sensor With Tunable Dynamic Range	Jain M.;Singh R.K.;Rafiq M.;Sahay S.	2023		
941.	IEEE Transactions on Electron Devices	Hybrid CMOS-RRAM True Random Number Generator Exploiting Coupled Entropy Sources	Equbal M.S.;Ketkar T.;Sahay S.	2023		
942.	IEEE Internet of Things Journal	Hybrid Precoder and Combiner Designs for Decentralized Parameter Estimation in mmWave MIMO Wireless Sensor Networks	Maity P.;Srivastava S.;Rajput K.P.;Venkategowda N.K.D.;Jaganatham A.K.;Hanzo L.	2024	11	1629-1643
943.	IEEE Open Journal of Vehicular Technology	Hybrid Transceiver Design and Optimal Power Allocation for the Cognitive mmWave Multiuser MIMO Downlink Relying on Limited Feedback	Singh J.;Chatterjee I.;Srivastava S.;Agrahari A.;Jagannatham A.K.;Hanzo L.	2023	4	241-256

944.	IEEE Transactions on Wireless Communications	Hybrid Transceiver Design for Tera-Hertz MIMO Systems Relying on Bayesian Learning Aided Sparse Channel Estimation	Srivastava S.;Tripathi A.;Varshney N.;Jagannatham A.K.;Hanzo L.	2023	22	2231-2245
945.	Optics Communications	Improved Brillouin induced self-heterodyne method for measurement of narrow laser linewidth	Roy A.S.;Chandra N.;Krishnamurthy P.K.	2024	553	
946.	Multimedia Tools and Applications	Improved adaptive type-2 fuzzy filter with exclusively two fuzzy membership function for filtering salt and pepper noise	Singh V.;Agrawal P.;Sharma T.;Verma N.K.	2023	82	20015-20037
947.	IEEE Transactions on Instrumentation and Measurement	Intelligent Hybrid Scheme for Health Monitoring of Degrading Rotary Machines: An Adaptive Fuzzy <i>&lt;/i>-Means Coupled with 1-D	Maurya S.;Verma N.K.	2023		

		CNN				
948.	ISA Transactions	Intelligent control of integrated on-board charger with improved power quality and reduced charging transients	Ghosh S.;Singh A.K.;Singh R.;Maurya R.;Singh S.N.;Yang G.	2023	135	355-368
949.	Japanese Journal of Applied Physics	Investigation of growth dynamics of $\text{In}_2\text{Ga}_2\text{O}_3$ LPCVD by independently controlling Ga precursor and substrate temperature	Joshi G.;Chauhan Y.S.;Verma A.	2023	62	
950.	IEEE Transactions on Circuits and Systems II: Express Briefs	Isolation Enhancement of Metamaterial-Inspired Two-Port MIMO Antenna Using Hybrid Techniques	Ameen M.;Chaudhary R.K.	2023	70	1966-1970
951.	IEEE Transactions on Communications	Joint AMP-SBL Algorithms For Device Activity Detection And Channel Estimation in Massive MIMO	Rajoriya A.;Budhiraja R.	2023		

		mMTC Systems				
952.	IEEE Open Journal of the Communications Society	Joint Transceiver and Reconfigurable Intelligent Surface Design for Multiuser mmWave MIMO Systems Relying on Non-Diagonal Phase Shift Matrices	Singh J.;Srivastava S.;Jagannatham A.K.;Hanzo L.	2023	4	2897-2912
953.	Pattern Recognition Letters	Learning based method for near field acoustic range estimation in spherical harmonics domain using intensity vectors: Learning based method for near field acoustic range estimation	Dwivedi P.;Routray G.;Hegde R.M.	2023	165	17-24
954.	IEEE Transactions on Circuits and Systems II: Express Briefs	Lifetime Improvement in Rechargeable Mobile IoT Networks Using Deep Reinforcement Learning	Singh A.;Rustagi R.;Hegde R.M.	2024		

955.	Optics and Laser Technology	Lithography-free fabrication of Vanadium Dioxide and its devices using direct laser writing	Bandhu H.;Ashok P.;Khandapu D.P.;Verma A.	2023	167	
956.	Thin Solid Films	Low temperature synthesis of VO <sub>2</sub> and hysteresis free VO <sub>x</sub> thin films with high temperature coefficient of resistance for bolometer applications	Ashok P.;Chauhan Y.S.;Verma A.	2023	781	
957.	Multimedia Tools and Applications	Mixed fuzzy pooling in convolutional neural networks for image classification	Sharma T.;Verma N.K.;Masood S.	2023	82	8405-8421
958.	IEEE Transactions on Electron Devices	Multidomain Interactions in Perpendicular Magnetic Tunnel Junction (p-MTJ): Enabling Multistate MRAM	Pandey N.;Chauhan Y.S.	2023		

959.	IEEE Journal of Emerging and Selected Topics in Power Electronics	Multiple Points Measurement-Based Junction Temperature Estimation of IGBT Module	Arya A.;Chanekar A.;Verma A.;Anand S.	2023	11	3457-3467
960.	Surface Topography: Metrology and Properties	Nanoscale surface profile measurement using state space approach in digital holographic microscopy	Pandey D.;Gannavar pu R.	2023	11	
961.	IEEE Transactions on Wireless Communications	Near-Field Channel Estimation For XL-MIMO Systems Using Variational Bayesian Learning	Pisharody J.N.;Rajoriya A.;Budhiraja R.	2024		
962.	Internet of Things (Netherlands)	Network-aware RF-energy harvesting for designing energy efficient IoT networks	Singh A.;Redhu S.;Beferull-Lozano B.;Hegde R.M.	2023	22	
963.	IEEE Journal on Exploratory Solid-State Computational Devices and Circuits	Non-Traditional Design of Dynamic Logics using FDSOI for Ultra-Efficient Computing	Kumar S.;Chatterjee S.;Dabhi C.K.;Chauhan Y.S.;Amrouch H.	2023		

964.	Optics Continuum	Non-contact automated defect detection using a deep learning approach in diffraction phase microscopy	Pandey D.;Saini A.;Gannavaru R.	2023	2	2421-2435
965.	Bioorganic and Medicinal Chemistry Letters	Novel orexin receptor agonists based on arene- or pyridine-fused 1,3-dihydro-2H-imidazole-2-imines	Wang W.;Ranjan A.;Zhang W.;Liang Q.;MacMillan K.S.;Chapman K.;Wang X.;Chandrasekaran P.;Williams N.S.;Rosenbaum D.M.;De Brabander J.K.	2024	99	
966.	Automatica	On convergence results for nonlinear cyclic pursuit strategies	Tripathy T.;Shima T.	2024	159	
967.	IEEE Transactions on Communications	Online Bayesian Learning Aided Sparse CSI Estimation in OTFS Modulated MIMO Systems for	Mehrotra A.;Srivastava S.;Asifa S.;Jagannatham A.K.;Hanzo	2023		



		Ultra-High-Doppler Scenarios	L.			
968.	IEEE Photonics Journal	Optical Vernier Effect Enabled Narrow Linewidth All-Fiber SBS-FWM-Based Tunable Optical Frequency Comb Generation	Paul A.;Deka A.;Mishra T.;Krishnamurthy P.K.	2023		
969.	Applied Optics	Optical gratings fabricated using the capillary-assisted self-assembly of nanoparticles on a flexible substrate	Sutradhar A.;Sam J.C.;Gupta S.	2023	62	5786-5793
970.	IEEE Internet of Things Journal	Optimal Device Selection in Federated Learning for Resource-Constrained Edge Networks	Kushwaha D.;Redhu S.;Brinton C.G.;Hegde R.M.	2023		
971.	IEEE Transactions on Automation Science and Engineering	Optimal Planning of Fast EV Charging Stations in a Coupled Transportation and Electrical Power Distribution Network	Kapoor A.;Patel V.S.;Sharma A.;Mohapatra A.	2023		

972.	International Journal of Electrical Power and Energy Systems	Optimal single settings based relay coordination in DC microgrids for line faults	Maurya S.K.;Soni A.K.;Mohapatra A.;Sharma A.	2024	156	
973.	International Journal of Computing and Digital Systems	Optimizing Fog Computing Efficiency: Exploring the Role of Heterogeneity in Resource Allocation and Task Scheduling	Sehgal N.;Bansal S.;Bansal R.K.	2024	15	1119-1133
974.	IEEE Access	Optimizing Low Noise Amplifiers: A Two-Stage Approach for Improved Noise Figure and Stability	Zaid M.;Kumari P.;Pampori A.;Nazir M.S.;Goyal U.;Mishra M.;Chauhan Y.S.	2024		
975.	IEEE Transactions on Electron Devices	Parasitic Gate Capacitance Model for <i>N</i> -Stack Forksheet FETs	Sharma S.;Sahay S.;Dey R.	2024		
976.	ACS applied materials & interfaces	Powering Disturb-Free Reconfigurable Computing and	Zhao Z.;Deng S.;Chatterjee S.;Jiang	2023	15	54602-54610

		Tunable Analog Electronics with Dual-Port Ferroelectric FET	Z.;Islam M.S.;Xiao Y.;Xu Y.;Meningher S.;Mohamed M.;Joshi R.;Chauhan Y.S.;Mulaosmanovic H.;Duenkel S.;Kleimaier D.;Beyer S.;Amrouch H.;Narayanan V.;Ni K.			
977.	IEEE Electron Device Letters	Programmable Delay Element Using Dual-Port FeFET for Post-Silicon Clock Tuning	Chatterjee S.;Chauhan Y.S.;Amrouch H.	2023	44	1907-1910
978.	IEEE Transactions on Signal Processing	Projection-Free Stochastic Bi-level Optimization	Akhtar Z.;Bedi A.S.;Thomdapu S.T.;Rajawat K.	2023		
979.	IEEE Transactions on Power Delivery	Protection Coordination in AC Microgrid Via Novel Voltage-Supervised	Soni A.K.;Mohapatra A.;Singh S.N.	2024		

		Directional Over-Current Relays				
980.	IEEE Transactions on Signal Processing	Proximal Algorithms for Smoothed Online Convex Optimization with Predictions	Senapati S.;Shenai A.;Rajawat K.	2023		
981.	Optics and Lasers in Engineering	Quantitative flow visualization by hidden grid background oriented schlieren	Ramaiah J.;de Rubeis T.;Gannavarp u R.;Ambrosini D.	2023	160	
982.	Journal of the Optical Society of America A: Optics and Image Science, and Vision	Quantitative phase gradient metrology using diffraction phase microscopy and deep learning	Vithin A.V.S.;Gannavarpu R.	2023	40	611-619
983.	IEEE Transactions on Circuits and Systems II: Express Briefs	RCS Reduction of Eight-Port Multilayer MIMO Antenna Based on Linear-to-Circular Polarization Converter With Pattern Diversity Mechanism	Ameen M.;Chaudhary R.K.	2023		
984.	IEEE Transactions on Communications	RSMA in Massive MIMO Systems: Analysis And	Dey S.;Bharti T.;Budhiraja	2023		

		Optimization in Correlated Rician-Faded Channels With Phase Shifts And Aging	R.			
985.	IET Cyber-Physical Systems: Theory and Applications	Real-time implementation for vulnerability of power components under switching attack based on sliding mode	Yadav S.;Kishor N.;Purwar S.;Chakrabarti S.;Raussi P.;Kumar A.	2023		
986.	IEEE Transactions on Electron Devices	Revisiting Lateral-Induced Drain Leakage in Nanowire FETs for 1T-DRAM	Bashir M.Y.;Jaiswal A.K.;Patel S.D.;Sahay S.	2024		
987.	IEEE Transactions on Automation Science and Engineering	Robust Attitude Control With Fixed Exponential Rate of Convergence and Consideration of Motor Dynamics for Tilt Quadrotor Using Quaternions	Seshasayanan S.;De S.;Sahoo S.R.	2024		
988.	IEEE Sensors Journal	Robust Finite-Resolution Transceivers for Decentralized Estimation in	Rajput K.P.;Ahmed M.F.;Venkateshgowda N.K.D.;Jagan	2023		

		Energy Harvesting Aided IoT Networks	natham A.K.;Hanzo L.			
989.	IEEE Internet of Things Journal	Robust Hybrid Transceiver Designs for Linear Decentralized Estimation in mmWave MIMO IoT Networks in the Face of Imperfect CSI	Maity P.;Rajput K.P.;Srivastava S.;Venkateswara N.K.D.;Jagannatham A.K.;Hanzo L.	2023	10	18125-18139
990.	IEEE Internet of Things Journal	Robust Linear Decentralized Tracking of a Time-Varying Sparse Parameter Relying on Imperfect CSI	Rajput K.P.;Srivastava S.;Jagannatham A.K.;Hanzo L.	2023	10	16156-16168
991.	IEEE Internet of Things Journal	Robust Linear Hybrid Beamforming Designs Relying on Imperfect CSI in mmWave MIMO IoT Networks	Rajput K.P.;Maity P.;Srivastava S.;Sharma V.;Venkateswara N.K.D.;Jagannatham A.K.;Hanzo L.	2023	10	8893-8906

992.	IEEE Transactions on Power Systems	Robust Short-term Operation of AC Power Network with Injection Uncertainties	Tiwari A.;Mohapatra A.;Sahoo S.R.	2023		
993.	Applied Optics	Robust method to process nonuniform intensity holograms in digital holographic microscopy for nanoscale surface metrology	Narayan S.K.;Pandey D.;Satya Vithin A.V.;Gannav arpu R.	2023	62	8497-8505
994.	IEEE Sensors Journal	SCSP-3: A Spectrally Augmented Common Spatial Pattern Approach for Robust Motor Imagery-based Brain-Computer Interface	Khanna S.;Chowdhury A.;Dutta A.;Subramanian V.K.	2024		
995.	IEEE Transactions on Green Communications and Networking	SE Analysis And GEE Optimization of Hardware-Impaired Multi-cell Massive MIMO Systems With Rician Fading And Phase Shifts	Amudala D.N.;Dey S.;Budhiraja R.	2023		

996.	IEEE Transactions on Circuits and Systems I: Regular Papers	Satisfiability Attack-Resilient Camouflaged Multiple Multivariable Logic-in-Memory Exploiting 3D NAND Flash Array	Swaroop B.S.;Saxena A.;Sahay S.	2023		
997.	IEEE Transactions on Smart Grid	Securing Power System Data in Motion by Timestamped Digital Text Watermarking	Roy S.D.;Sharma A.;Chakrabar ti S.;Debarma S.	2024		
998.	Microwave and Optical Technology Letters	Single/bidirectional pattern and beamwidth reconfigurable array antenna using reconfigurable reflecting surface	Prakash T.;Chaudhary R.K.;Gangwa r R.K.	2024	66	
999.	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	Kar A.;Parihar S.S.;Huang J.Z.;Zhang H.;Wang W.;Imura K.;Chauhan Y.S.	2024		



1000.	IEEE Transactions on Network and Service Management	Socially Aware Network Clustering for Throughput Maximization in Mobile Wireless Sensor Networks	Tripathi S.;Pandey O.J.;Hegde R.M.	2023		
1001.	IEEE Transactions on Network Science and Engineering	Spot Electricity Market Design Considering Carbon Emissions for a Power System With a High Penetration of Renewable Energy Generation	Shang J.;Wang K.;Lai X.;Yang J.;Jiang X.;Gao J.;Singh S.N.	2023		
1002.	IEEE Transactions on Electron Devices	Static Negative Susceptibility in Ferromagnetic Material Induced by Domain Wall: Possibility to Achieve Gigantic Diamagnetism	Pandey N.;Chauhan Y.S.	2024		
1003.	IEEE Transactions on Signal Processing	Stochastic Compositional Gradient Descent under Compositional Constraints	Thomdapu S.T.;Harshvardhan ;Rajawat K.	2023		
1004.	IEEE Transactions on Electron Devices	Subcircuit Modeling of Dual	Dangi R.;Pampori	2023		

		Channel MOS-HEMTs Using Standard ASM-HEMT	A.;Pal P.;Chauhan Y.S.			
1005.	Optics and Laser Technology	Surface profile measurement using nonlinear optimization approach in diffraction phase microscopy	K.N. S.;Vithin A.V.S.;Ajithp rasad S.;Gannavarp u R.	2023	167	
1006.	IEEE Transactions on Electron Devices	Symmetric BSIM-SOI&#x2014; Part I: A Compact Model for Dynamically Depleted SOI MOSFETs	Dabhi C.K.;Rajasek haran D.;Pahwa G.;Nandi D.;Karumuri N.;Turuveker e S.;Dutta A.;Swaminat han B.;Srihari S.;Chauhan Y.S.;Salahud din S.;Hu C.	2024		
1007.	Electric Power Components and Systems	Symmetrical Multi-pole MMC-HVDC with DC Fault Ride Through Capability Using HBSM	Yadav A.;Singh S.N.;Das S.P.	2023		

1008.	IEEE Transactions on Electromagnetic Compatibility	Three-Dimensional Rotation of FSS Unit Cell in Broadband Microwave Absorber for Large Oblique Incidence Response	Yadav J.;Saikia M.;Srivastava K.V.;Ramkumar J.	2023		
1009.	Journal of Real-Time Image Processing	Towards reduced dependency and faster unsupervised 3D face reconstruction	Tiwari H.;Subramanian V.K.;Chen Y.S.	2023	20	
1010.	IEEE Transactions on Electron Devices	Trapping/Detrapping Kinetic Modeling Under Positive/Negative Gate Stress Including Inhibition Dynamics in 4H-SiC MOS Capacitors	Singh S.K.;Chen B.R.;Huang Z.H.;Wu T.L.;Chauhan Y.S.	2023		
1011.	IEEE Transactions on Communications	URLLC in D2D Underlaid Massive MIMO Systems: Receiver Design And GEE Optimization	Amudala D.N.;Reithick A.;Budhiraja R.	2023		
1012.	IEEE Communications Letters	Variational Bayesian Learning	Arya N.;Rajoriya	2023		

		Based Delay-Doppler Channel Estimator For Multi-User OTFS Systems	A.;Singh P.;Budhiraja R.			
1013.	IEEE Transactions on Communications	Variational Learning Algorithms For Channel Estimation in RIS-assisted mmWave Systems	Nakul M.;Rajoriya A.;Budhiraja R.	2023		
1014.	ACS Applied Energy Materials	Visible Light-Promoted Enhanced Photocatalytic Hydrogen Generation by the $\text{CeF}_3\text{:Ho}^{3+}$ -Incorporated $\text{TiO}_2$ Nanosystem	Verma A.K.;Tripathi P.;Dubey A.;Vishwakarma N.K.;Sinha A.S.K.;Singh S.	2023		
1015.	IEEE Transactions on Circuits and Systems II: Express Briefs	Wideband Low-Profile Endfire Antenna With Polarization Reconfigurability	Jaiswal R.K.;Aakash ;Ojha A.K.;Sim C.Y.D.;Srivastava K.V.	2023		
1016.	IEEE Antennas and Wireless Propagation Letters	Wideband Low-RCS Step-Type Cavity-backed	Ameen M.;Mallick P.;Chowdhur	2023		

		Stacked Dielectric Resonator Antenna for Unmanned Aerial Vehicle Communications	y R.;Ray A.K.;Chaudhary R.K.			
1017.	IEEE Access	Wideband RCS Reduction of a Linear Patch Antenna Array using AMC Metasurface for Stealth Applications	Bandyopadhyay B.;Bhattacharya S.;Jaiswal R.K.;Saikia M.;Srivastava K.V.	2023		
1018.	IEEE Transactions on Wireless Communications	Wireless Information and Power Transfer Enabled Massive MIMO Multi-Way Relaying	Amudala D.N.;Budhira ja R.	2023		
1019.	IEEE Transactions on Electron Devices	Guest Editorial Special Issue on Semiconductor Device Modeling for Circuit and System Design	Chauhan Y.S.	2024	71	10-Jul
1020.	IEEE Transactions on Artificial Intelligence	Guest Editorial: Special Issue on Artificial Intelligence Methods for Maintenance and	Chen H.;Luo H.;Verma N.;Jiang B.	2023	4	589-591

		Safety of Automation Systems				
1021.	IEEE Antennas and Wireless Propagation Letters	A Two-Stage Beam-Forming Antenna Using Butler Matrix and Reconfigurable Frequency Selective Surface for Wide Angle Beam-Tilting	R. K. Dutta, R. K. Jaiswal, M. Saikia and K. V. Srivastava	2023	10	2342-2346
1022.	IEEE Access	Wideband Monopole Eight-Element MIMO Antenna for 5G Mobile Terminal	A. K. Rai, R. K. Jaiswal, K. Kumari, 2	2023	11	689-696
1023.	IEEE Transactions on Antennas and Propagation	A Time Modulated Polarization Rotating Frequency Selective Surface	M. Saikia, and K. V. Srivastava	2023	71	1506-1515
1024.	IEEE Transactions on Electromagnetic Compatibility	Screen Printed Polarization Independent Microwave Absorber for Wideband RCS Reduction	A. Dhumal, M. S. Bisht, A. Bhardwaj, M. Saikia, S. Malik, and K. V. Srivastava	2023	65	96-103
1025.	Journal of Electromagnetic Waves	Analytical analysis of Inhomogeneous and Anisotropic	Abhinav Bhardwaj, Dheeraj	2023	37	53-68

	and Applications	Metamaterial Cylindrical Waveguide using Transformation Matrix Method	Pratap, Kumar Vaibhav Srivastava and S. Anantha Ramakrishna			
1026.	Journal of Physics D: Applied Physics	Flexible dielectric spacer with tunable dielectric properties for metamaterial absorber application	Kajal Chaudhary, Sudha Malik, Gaganpreet Singh, Sudeb Bhattacharya, J Ramkumar, S Anantha Ramakrishna and Kumar Vaibhav Srivastava	2023	5	
1027.	Journal of Machine Learning Research	Mean-Field Approximation of Cooperative Constrained Multi- Agent Reinforcement Learning (CMARL)	W. U. Mondal, V. Aggarwal, and S. V. Ukkusuri	2024		
1028.	IEEE Journal of Biomedical and Health Informatics	Cooperating Graph Neural Networks with Deep Reinforcement Learning for	L. Ling, W. U.Mondal, and S.V.Ukkusuri	2024		

		Vaccine Prioritization				
1029.	IEEE Networking Letters	Near-Perfect Coverage Manifold Estimation in Cellular Networks via Conditional GAN	W. U. Mondal, V. Goyal, S. V. Ukkusuri, G. Das, D. Wang, M.-S. Alouini, and V. Aggarwal	2024		
1030.	IEEE Open Journal of the Communications Society	Terrain-Based Coverage Manifold Estimation: Machine Learning, Stochastic Geometry, or Simulation	R. Wang, W.U.Mondal, M. A. Kishk, V.Aggarwal, and M.- S.Alouini	2024		
1031.	Transactions on Machine Learning Research	Reinforcement Learning with Delayed, Composite, and Partially Anonymous Reward	W. U. Mondal, and V. Aggarwal	2023		
1032.	IEEE Transactions on Cognitive Communications and Networking	Coalition Formation for Outsourced Spectrum Sensing in Cognitive Radio Network	A. A. Sardar, D. Roy, W. U. Mondal, and G. Das	2023		



1033.	Transactions on Machine Learning Research	Mean-Field Control based Approximation of Multi-Agent Reinforcement Learning in Presence of a Non-decomposable Shared Global State	W. U. Mondal, V. Aggarwal, and S. V. Ukkusuri	2023		
1034.	IEEE Transaction on Electron Devices	A Simulation Study of Bipolar I-MOS for ESD Protection	Lahgere A., and D. S. Gupta	2023	70	6687
1035.	IEEE Access	Gate Grounded Trench I-MOS as an ESD Clamp for Sub-2V Applications"	Lahgere A., and D. S. Gupta	2023	11	108938
1036.	IEEE Transaction on Nanotechnology	Design of Leaky Integrate and Fire Neuron for Spiking Neural Networks using Trench Bipolar I-MOS	Lahgere A.	2023	22	260
1037.	IEEE Transaction on Nanotechnology	Ultra-Low Power Reconfigurable Synaptic and Neuronal Transistor for Spiking Neural Network	N. Kamal, J. Singh, A. Lahgere and P. K. Tiwari	2023	22	245

1038.	IETE Journal of Research	Double-Link Failure Protection Using a Single p-Cycle	P Athe, YN Singh	2023	11	7634-7643
1039.	Multimedia Tools and Application	Internet of things technology, research, and challenges: a survey	AK Vishwakarma, S Chaurasia, K Kumar, YN Singh, R Chaurasia	2023		1-36
1040.	IEEE Journal on Flexible Electronics	Guest Editorial Special Issue on Flexible Electronics for Emerging Markets and Developing Economies	S. S. K. Iyer, et. al.	2023	2	333-335
1041.	IEEE Journal on Flexible Electronics	Shelf-life Comparison of Paper Solar Cells with either MoO3 or Epoxy as Encapsulation Layers	Sambathkumar Balasubramanian, Eswaran Jayaraman and S. Sundar Kumar Iyer	2023	2	390-394
1042.	IEEE Transactions on Circuits and Systems-II	Analysis of Stability, Noise, and Design Guidelines For a Cascaded Floating-	R. S. Ashwin Kumar	2024		

		Inverter Amplifier				
<b>Department of Humanities and Social Sciences</b>						
1043.	Sambhasan	Preparing for disaster management	Bhushan, B.	2023	4(1)	216-221.
1044.	Philip Roth Studies	A Professor of Roth in India	Gurumurthy Neelakantan	2023	19:1	91-94
1045.	South Asian Review	Bharti Mukherjee's Politics of Diaspora in The Tiger's Daughter	Gurumurthy Neelakantan and Rima Bhattacharya	2023	DOI: 10.1080/02759527.2023.2278830	
1046.	Teaching English as a Second Language Electronic Journal (TESL-EJ)	The Impact of Peer-Collaborative Strategic Reading and Reflective Journal Writing on Orchestrated Reading Strategy Use and Comprehension	Pinninti, L. R	2024	27 (4)	
1047.	Proceedings of the 45th Annual Conference of the Cognitive	Do men and women process happy and sad music alike. In M. Goldwater, F. K. Anggoro, B. K. Hayes & D. C. Ong (Eds.)	Gupta, A., Srivastava, C. K., Bhushan, B., & Behera, L.	2023	Vol. 45	No. 45

1048.	AHFE (2023) International Conference. AHFE Open Access	Laterality in Gesture-Based Video Games. In: Tareq Ahram and Christianne Falco (eds) Human Factors in Virtual Environments and Game Design	Kumar, M., Bhushan, B., Sameer, A., Kundal, A.	2023	vol 96	pp.21-29. AHFE International, USA. DOI: <a href="http://doi.org/10.54941/ahfe1003863">http://doi.org/10.54941/ahfe1003863</a>
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**Department of Management Sciences**

1049.	Aspects of India's Economy	Indian telecom's spectacular rise and the nature of monopoly capital in India,	R. Varman	2023	(80)	3-64
1050.	Monthly Review	The telecom industry in India: free market or monopoly-finance capital?	R. Varman	2023	75(1)	
1051.	Monthly Review	What do we learn about capitalism from chip war?	R. Varman	2023	75(6)	
1052.	RAIRO Operations Research	A robust optimization approach to a repair shop network planning	S. Singh, A. Khanra	2024	58	629-664
1053.	OPSEARCH	A robust optimization	S. Singh, A. Khanra	2024		1-36

		approach for repairing and overhauling in a captive repair shop under uncertainty				
1054.	International Journal of Productivity and Performance Management	A fuzzy multi-criteria framework to identify barriers and enablers of the next-generation vaccine supply chain	D. Chandra, Vipin B., D. Kumar	2023	72(3)	827-847
1055.	International Journal of Theoretical and Applied Finance	Pairs trading with topological data analysis	S. Majumdar, A. K. Laha	2023	26	1-43
1056.	Managerial and Decision Economics	Social performance versus relative performance evaluation, asymmetric costs, and quantity competition under managerial delegation.	J. Hamamura, V. Ramani	2023	44(3)	1706-1719
1057.	European Journal of Operational Research	The bright side of the planning fallacy in distribution channels	M. Kopel, V. Ramani	2024	314(2)	540-551
1058.	Sustainability	A selected survey of game theory models with	P. De Giovanni, V.	2023	16(1)	136

		government schemes to support circular economy systems	Ramani			
1059.	Journal of the Operational Research Society	Effectiveness of environmental regulations: firm's decisions and welfare implications	V. Ramani, M. Rani Kuiti, D. Ghosh, S. Swami	2024		1-21
1060.	Journal of Trade Science	Filling the SME credit gap: a systematic review of blockchain-based SME finance literature	D. Kumar, B. V. Phani, N. Chilamkurti, S. Saurabh, V. Ratten	2023	11(2/3)	45-72
1061.	International Review of Education	Perpetuating ecopreneurship through lifelong education: a qualitative constructivist grounded theory study.	S. Potluri, B. V. Phani	2024		
1062.	Business Strategy and the Environment	Women green entrepreneurship: conceptualisation and use of bricolage for policy recommendations.	S. Potluri, S. Ananthram, B. V. Phani	2024		

1063.	Entrepreneurial Business and Economics Review	Taxonomy of blockchain technology application and adoption in SMEs	D. Kumar, B. V. Phani, N. Chilamkurti, S. Saurabh, V. Ratten	2024		
1064.	American Journal of Operational Research	New model on multi floor simple plant layout problems (MF-SPLP)	R. R. K. Sharma, S. Saini, O. K. Gupta & V. Singh	2023	13(1)	1-7
1065.	American Journal of Operational Research	Multi floor unequal area (machine and slots) facility layout problem (MF-UA-FLP).	R. R. K. Sharma, V. Singh, K. Mittal, D. Nithin	2023	13(1)	8-12
1066.	International Journal of Revenue Management	Nash equilibrium computation in airline frequency game	D. Singh, S. V. Venkataraman	2023	13(3)	166-186
1067.	Computers & Industrial Engineering	Strategies in supply chain competition: A game theoretic approach	S. Patore, S. V. Venkataraman	2023	180	109242
1068.	Omega	Social distancing and revenue management—a post-pandemic adaptation for railways	Md. T. Haque, F. Hamid	2023	114	102737

1069.	European Journal of Operational Research	Train stop scheduling problem: an exact approach using valid inequalities and polar duality	F. Hamid, Y. K. Agarwal	2024	313(1)	207-224
1070.	International Journal of Quality & Reliability Management	Optimal estimation of reliability parameter for inverse pareto distribution with application to insurance data	N. Joshi, S. R. Bapat, R. N. Sengupta	2024		Accepted / Forthcoming
1071.	Sequential Analysis	Estimation of fixed-accuracy confidence interval of the stress–strength reliability for inverse Pareto distribution using two-stage sampling technique	N. Joshi, S. R. Bapat, R. N. Sengupta	2024	43(1)	79-102
1072.	Sequential Analysis	Sequential estimation for the multiple linear regression models with balanced loss functions	R. N. Sengupta, S. R. Bapat, N. Joshi	2024		Accepted / Forthcoming
1073.	Annals of Operations Research	Bi-objective reliability-based optimization: an	R. N. Sengupta, A. Gupta, S.	2024	333	47-78



		application to investment analysis	Mukherjee, G. Weiss			
1074.	American Business Review	Global component of sentiment in futures markets: evidence from covid-19 pandemic	A. Tripathi, A. Dixit	2023	26(2)	355-384
1075.	Journal of Management Inquiry	Navigating temporary organizations: a narrative perspective	J. Rajan, S. K. Jha, G. Naik,	2023		10564926231208100
1076.	Journal of Cleaner Production	Sustainable retail model with preservation technology investment to moderate deterioration with environmental deliberations	P. Gautam, S. Maheshwari, A. Kausar, C. K. Jaggi	2023	390	136128
1077.	Asian Pacific Journal of Cancer Prevention: APJCP	Operations management interventions in cancer care delivery in LMICs: the way forward	P. Gautam, A. Shankar	2023	24(1)	1-7
1078.	International Journal of Systems Science: Operations & Logistics	Optimal inventory replenishment policies for deteriorating items	S. Maheshwari, P. Gautam, A. Kausar, C.	2023	10(1)	2186753

		with preservation technology under the effect of advertisement and price reliant demand	K. Jaggi			
1079.	Asia-Pacific Journal of Oncology Nursing	Management of cancer cachexia towards optimizing care delivery and patient outcomes	P. Gautam, A. Shankar	2023	10(1)	100322
1080.	International Journal of Procurement Management	Reimagining India's cold chain sector and its contribution to Atmanirbhar Bharat and global supply chain trends	M. Rais, P. Gautam, P. Yadav, M. I. Singh	2023	18(1)	1-19
1081.	Journal of Operations Management	Impact of working capital on firm performance: Does IT matter?	P. Dev, S. Naskar, S. Devaraj, P. Basu	2023	69(6)	983-1007
1082.	The International Review of Retail, Distribution and Consumer Research	Role of e-service quality, brand commitment and e-WOM trust on e-WOM intentions of millennials	M. Jain, S. Dixit, A. Shukla	2023	33(1)	23-43
1083.	Studies in Higher Education.	A holistic approach to student empowerment and	A. Shukla, V. Arora	2023	48(8)	1315-1332

		assessment of its impact on educational outcomes through psychological ownership.				
1084.	Journal of Global Marketing	The effect of green marketing strategy on the firm's performance in the context of developing country	A. Shukla, T. G. Demessie	2023	36(3)	193-209
1085.	Global Business Review	Identification and risk profiling of major stressors in the Indian IT sector	S. Chatterjee, A. Shukla	2023	24(1)	121-136
1086.	Journal of International Food & Agribusiness Marketing	Digital marketing as an enabler of sustainable food system: the mediating role of relationship marketing	H. K. Gelgile, A. Shukla	2024	36(1)	93-102
1087.	International Journal of Internet Marketing and Advertising.	Examining the moderating role of gender and point of purchase platforms on eWOM intentions	M. Jain, S. Dixit, S. Sindhu, A. Shukla	Forthcoming		
1088.	Business Perspectives	Is feminism a silver bullet to shatter	H. K. Gelgile, A.	2023		

	and Research	African glass ceiling? an examination of the mediating role of financial wellbeing	Shukla			
1089.	Tourism Planning & Development	Just survive or thrive? effect of psychological and organizational resilience on adoption of innovative strategies by hospitality sector post covid-19	M. R. Barbhuiya, D. Chatterjee	2023	20	188-211
1090.	International Journal of Bank Marketing	Income shock and financial well-being in the COVID-19 pandemic: financial resilience and psychological resilience as mediators	A. Kulshreshtra, S. K. Raju, S. M. Muktineni, D. Chatterjee	2023	41	1037-1058
1091.	Journal of Business Research	Psychological mechanisms behind access-based luxury brand consumption: Empirical investigation from the lens of new	J. Kumar	2024	175	114539

		ownership paradigm				
1092.	Safety Science	Another side of industrial growth in India: environmental damage from industrial accidents	M. Prasad, L. Suresh	2023	164	106152
1093.	Multimedia Tools and Applications, Springer	A machine learning based personalized yoga asanas recommendation engine	M. Umrao, V. Bansal	2024		1-16
1094.	International Journal of Managerial Finance	Testing factor models in an emerging market: evidence from India	K. Singh, A. Singh, P. Prakash	2023	19(1)	203-232
1095.	Applied Economics	Life cycle stage as determinant of operational efficiency with implications for benchmarking	V. Sangwan, S. Kushwaha, P. Prakash, A. Singh	2023		1-18
1096.	ISPRS International Journal of Geo-Information	Modelling & analysis of high impact terrorist attacks in India & its neighbors.	P. P. Singh, D. Philip	2023	12(4)	162

1097.	Methodological Innovations	An innovative color-coding scheme for terrorism threat advisory system	D. Philip, P. P. Singh	2023	16(1)	38-56
1098.	Drone Systems and Applications	Modeling and prediction of powered parafoil unmanned aerial vehicle throttle and servo controls through artificial neural networks.	P. Kumar, B. Chaoudhury, A. Singh, J. Ramkumar, D. Philip, A. K. Ghosh	2023	11	1-16
1099.	Cogent Social Sciences	Profiling terrorist organizations capable of high impact attacks	D. Philip, A. Khanna, A. K. Singh	2023	9(2)	2270642
1100.	Drone Systems and Applications	Modeling and prediction of powered parafoil unmanned aerial vehicle throttle and servo controls through artificial neural networks.	P. Kumar, B. Chaoudhury, A. Singh, J. Ramkumar, D. Philip, A. K. Ghosh	2023	11	1-16
1101.	Asian Journal of Control	Data-driven approach for estimating longitudinal aerodynamic parameters using	P. Kumar, S. Sonkar, R. C. George, D. Philip, A. K. Ghosh	2023	Special Issue	1-23

		neural artificial bee colony fusion algorithm				
1102.	Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering	Estimation of aerodynamic parameters using neural artificial bee colony fusion algorithm for moderate angle of attack using real flight data	P. Kumar, S. Sonkar, R. C. George, D. Philip, A.K. Ghosh	2023	237 (16)	3619-3639
1103.	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Low-cost development of a fully composite fixed-wing hybrid VTOL UAV	P. Kumar, R. C. George, T. P. Yuvaraj, D. Philip, A. K. Ghosh	2024	46(4)	1-11
1104.	International Journal of Quality & Reliability Management	Post-implementation challenges of ERP system in pharmaceutical companies	S. Singh, S. Singh, S. C. Misra	2023	40(4)	889-921
1105.	Computer and Industrial Engineering	Resilience and sustainability enhancements in food supply chains using digital twin technology: a grey causal modeling approach.	G. Singh, R. Rajesh, Y. Daultani, S. C. Misra	2023	179	109172

1106.	Journal of Trade Science	Filling the SME credit gap: a systematic review of blockchain-based SME finance literature	D. Kumar, B.V. Phani, N. Chilamkurti, S. Saurabh, V. Ratten	2023	11(2/3)	45-72
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**Department of Materials Science and Engineering**

1107.	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	<u>D. Rana, V. Xavier, S. S. Jana, Tanmoy Maiti, T. Venkateswaran, and Kantesh Balani</u>	2024	38	108434 (11 pp)
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1108.	Surfaces and Interfaces	Innovative powder-based wettability evaluation of HfB <sub>2</sub> -ZrB <sub>2</sub> -SiC-B <sub>4</sub> C-CNT composite: Effect of surface roughness and ambient conditions	<u>S. Bajpai, K.P. Singh, A. Bhadauria, T. Venkateswaran, T. Laha, A. Upadhyaya, Kantesh Balani</u>	2023	42	103345 (12 pp)
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1109.	ACS Applied Bio Materials	3D-Printed Multifunctional Ag/CeO <sub>2</sub> /ZnO Reinforced Hydroxyapatite-based Scaffolds for Bone Tissue Engineering	<u>I. Singh, K. Dixit, P. Gupta, S.M. George, N. Sinha, Kantesh Balani</u>	2023	6 (12)	5210-5223
1110.	Journal of the Mechanical Behavior of Biomedical Materials	Multi-Length Scale Strengthening of Ultra High Molecular Weight Polyethylene Bio-Composites with Functionalized Carbon Nanotube and Hydroxyapatite Reinforcement	<u>C. Nayak, P. Kushram, M.A.A. Zaidi, I. Singh, J. Sen, Kantesh Balani</u>	2023	140	105694 (16 pp)\
1111.	Surface and Coatings Technology	Incessant Tribolayer Formation Suppresses High Temperature Wear Damage in SiC Reinforced Equi-Volume ZrB <sub>2</sub> -HfB <sub>2</sub> Composite	<u>R. Hassan, S.K. Josyula, D. Patro, S. Omar, Kantesh Balani</u>	2023	465	129586 (12 pp)
1112.	Materials Characterization	Heterogeneous Solid Solutioning in Carbon Nanotube Reinforced HfB <sub>2</sub> -ZrB <sub>2</sub> -SiC Ultra	<u>R. Hassan, S. Swamy, and Kantesh Balani</u>	2023	201	112941 (11 pp)

		High Temperature Ceramic Composites				
1113.	Wear	Mechanical, microstructural, and fretting wear behaviour of Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> -CNT based composite coatings	<u>S. Kushwaha,</u> <u>A. Bhadauria,</u> <u>A. Tiwari, K.</u> <u>K. Pandey,</u> <u>A. K. Keshri,</u> <u>Kantesh</u> <u>Balani</u>	2023	532-523	205127 (13 pp)
1114.	Surface & Coatings Technology	Enhanced reliability with bimodal microstructure and transformation-induced toughening in Al <sub>2</sub> O <sub>3</sub> -YSZ based thermal barrier coatings	<u>S.</u> <u>Ponnapuredd</u> <u>y, A.</u> <u>Bhadauria, S.</u> <u>Bajpai, A.</u> <u>Tiwari, K. K.</u> <u>Pandey, A.</u> <u>K. Keshri,</u> <u>and Kantesh</u> <u>Balani</u>	2023	462 (15)	129488 (13 pp)
1115.	Ceramics International	Bimodal Microstructure Toughens Plasma Sprayed Al <sub>2</sub> O <sub>3</sub> -YSZ-CNT Coatings	<u>A. Bhadauria,</u> <u>S. Bajpai, A.</u> <u>Tiwari, S.K.</u> <u>Mishra, A.</u> <u>Nisar, S.</u> <u>Dubey, N.</u> <u>Chavan, A.K.</u> <u>Keshri,</u> <u>Kantesh</u> <u>Balani</u>	2023	49	12348–12359

1116.	Nanomaterials and Energy	Meeting Global Energy Demand in a Sustainable Future	<u>Kantesh Balani</u>	2023	12 (3)	90-91
1117.	Scripta Materialia	Effect of surface energy anisotropy on hole growth in a single-crystalline thin film: A phase-field study	<u>Miral Verma, Rajdip Mukherjee</u>	2023	234	11572 (7pp)
1118.	Acta Materialia	Effect of concurrent thermal grooving and grain growth on morphological and topological evolution of a polycrystalline thin film: Insights from a 3D phase-field study	<u>Miral Verma, Sandip Sugathan, Saswata Bhattacharyya, Rajdip Mukherjee</u>	2023	261	119393 (17pp)
1119.	Physical Review Materials	Accelerating microstructure modeling via machine learning: A method combining Autoencoder and ConvLSTM	<u>Owais Ahmad, Naveen Kumar, Rajdip Mukherjee, Somnath Bhowmick</u>	2023	7	083802 (9pp)
1120.	Modelling and Simulations in Materials	Multivariant microstructure	<u>Soumya Bandyopadhy</u>	2023	31	065019 (20pp)

	Science and Engineering	evolution inTi-alloys: insights from a quantitative phase-field study	<u>ay, Vishal Panwar,</u> <u>Sandip Guin,</u> <u>Anoop C R,</u> <u>Nilesh Prakash Gurao,</u> <u>Rajdip Mukherjee</u>			
1121.	Philosophical Magazine	Micro-mechanical investigation of maraging steel during in-situ tensile test	<u>Prince Setia,</u> <u>Hitesh K. Mehtani,</u> <u>Sudhanshu S. Singh, T. Venkateswaran, Prabhat C. Yadav &amp; Shashank Shekhar</u>	2024		<a href="https://doi.org/10.1080/14786435.2024.2329984">https://doi.org/10.1080/14786435.2024.2329984</a>
1122.	Materials Today Communications	Constrained Constant Radius Pressing (CCRP) process to improve mechanical properties and microstructural homogeneity of pure copper sheet	Nikhil Tripathi, Prince Setia, Swapnil Sawalkar, K Mondal, Shashank Shekhar	2024	38	107695
1123.	Vacuum	Exploring the hot deformation behavior of novel Si-containing	Prince Setia, Nitish Raja, Sudhanshu S Singh,	2024	222	113045

		austenitic stainless steel	Subrata Mukherjee, T Venkateswaran, Shashank Shekhar			
1124.	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.	2024		<a href="https://doi.org/10.1007/s11665-024-09379-6">https://doi.org/10.1007/s11665-024-09379-6</a>
1125.	Materials Performance and Characterization	Compressive Flow Behavior and Microstructural Evolution of Friction Stir Processed A356-5% B4C Composite	Gangolu, S., Sabirov, I., Gourav Rao, A., Prabhu, N., Kashyap, B.P.	2023	12	237-246
1126.	IEEE Transactions on Electron Devices	Di-Metal Chalcogenides: A New Family of Promising 2-D Semiconductors for High-Performance Transistors	Naseer, Ateeb and Nandan, Keshari and Agarwal, Amit and Bhowmick, Somnath and Chauhan,	2023	70	2445-2452

			Yogesh S.			
1127.	The Journal of Physical Chemistry C	Magnetoelectric Multiferroic Janus Monolayers VOXY (X/Y= F, Cl, Br, or I, and X≠ Y) with In-Plane Ferroelectricity and Out-of-Plane Piezoelectricity	Akshay Mahajan, Somnath Bhowmick	2023	127	11407-11418
1128.	Physical Review Applied	Designing Power-Efficient Transistors Using Narrow-Bandwidth Materials from the M A 2 Z 4 (M= Mo, Cr, Zr, Ti, Hf; A= Si, Ge; Z= N, P, As) Monolayer Series	Keshari Nandan, Somnath Bhowmick, Yogesh S Chauhan, Amit Agarwal	2023	19	64058
1129.	IEEE Transactions on Electron Devices	Performance Evaluation of Monolayer ZrS <sub>3</sub> Transistors for Next-Generation Computing	Ateeb Naseer, Keshari Nandan, Amit Agarwal, Somnath Bhowmick, Yogesh Singh Chauhan	2023	70	5435 - 5442

1130.	The Journal of Physical Chemistry C	Versatility of the SiH–CdCl <sub>2</sub> Heterostructure: Piezoelectricity, Photocatalysis, and Transistor Applications	Achintya Priydarshi, Abhinav Arora, Yogesh Singh Chauhan, Amit Agarwal, Somnath Bhowmick	2023	127	21279-21288
1131.	Materialia	Micro-mechanisms of deformation and strengthening during high pressure torsion of CoCuFeMnNi high entropy alloy	Reshma Sonkusare, NP Gurao, Krishanu Biswas, Joysurya Basu, S Sen, KG Pradeep, Manimunda Praveena, Sanjit Bhowmick, Somnath Bhowmick, A Kilmametov, M Palit	2023	32	101916
1132.	Advanced Engineering Materials	Understanding Deformation Behavior in Sintered Fe <sub>36</sub> Ni	Sandeep Kumar Sahni, Somnath Bhowmick,	2024	26	2301460

		Alloy Through Nanoindentation Experiments and Molecular Dynamics Simulation	Anish Upadhyaya			
1133.	Journal of Materials Science	Molecular dynamics simulations of solid-state sintering in Fe <sub>35</sub> Ni alloy: understanding the process at the atomic scale	Sandeep Kumar Sahni, Somnath Bhowmick, Anish Upadhyaya	2024	59	2954-2973
1134.	The Journal of Physical Chemistry C	Liquid Phase Exfoliated Borophene on Au (111)	Umashankar Rajput, Md Faiz Akhtar, Vaibhav Walve, Imrankhan Mulani, Giriraj Vyas, Somnath Bhowmick, Prashant Kumar, Aparna Deshpande	2024	128	4104–4110
1135.	Journal of Materials Chemistry B	Preparation and assessment of agar/TEMPO-oxidized bacterial	Kaushal R Shakya, Kuldeep Nigam, Arpit	2024	12	3453-3468



		cellulose cryogels for hemostatic applications	Sharma, Kousar Jahan, Amit Kumar Tyagi, Vivek Verma			
1136.	Energy Advances	An aqueous polysulfide redox flow battery with a semi-fluorinated cation exchange membrane	Sooraj Sreenath, PS Nayanthara, Chetan M Pawar, Anish Ash, Bhavana Bhatt, Vivek Verma, Rajaram K Nagarale	2024	3	203-214
1137.	Nano Energy	Biocompatible, breathable and degradable microbial cellulose based triboelectric nanogenerator for wearable transient electronics	Bushara Fatma, Syed Muntazir Andrabi, Shashikant Gupta, Vivek Verma, Ashok Kumar, Charalampos Pitsalidis, Ashish Garg	2023	114	108628
1138.	Journal of Polymer Research	PVDF-co-HFP based anion exchange	Chetan M Pawar, Nayanthara P	2023	8	309

		membrane for acid recovery from bentonite mine effluent via diffusion dialysis	S, Sooraj Sreenath, Anish Ash, Vivek Verma, Rajaram K Nagarale			
1139.	Carbohydrate Polymers	Polysaccharide based transdermal patches for chronic wound healing: Recent advances and clinical perspective	Suhela Tyeb, Vivek Verma, Nitesh Kumar	2023	316	121038
1140.	Journal of the Mechanical Behavior of Biomedical Materials		Umakant Yadav, Vivek Verma	2023	140	105626
1141.	Advanced Theory and Simulation	Analysis of Si Back-Contact for Chalcogenide Perovskite Solar Cells Based on BaZrS <sub>3</sub> Using SCAPS-1D	Biswajit Barman and Sarang Ingole	2023	6	2200820
1142.	Journal of Applied Physics	Electronic, mechanical, and vibrational properties of calcium lanthanum sulfide solid solution: A DFT	George Maxwell Nishibuchi, Shivam Tripathi, Saswat Mishra, Clara	2023	134	173101

		study	Rivero-Baleine, Alejandro Strachan			
1143.	ACS Catalysis	How Poisoning Is Avoided in a Step of Relevance to the Haber–Bosch Catalysis	Shivam Tripathi, Luigi Bonati, Simone Perego, Michele Parrinello	2024	14 (7)	4944-4950
1144.	Journal of Materials Engineering and Performance	Microstructural and Mechanical Characterization of Selective Laser Melted 17-4 PH Stainless Steel: Effect of Laser Scan Strategy and Heat Treatment	S. Asapu, R. Kumar, A. Gupta, and Shikhar K Jha	2024		1-15
1145.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Stabilization of Al <sub>2</sub> O <sub>3</sub> dispersed slurry by controlling pH	Gupta, P., Mundra, R., & Jha, Shikhar. K	2024		133251
1146.	Materialia	Flash sintering improves the densification and mechanical properties of high entropy oxides used in anodic	Tyagi, P. K., & Jha, Shikhar K	2024	33	101967

		applications				
1147.	Sensors and Actuators A	Nitrogen and sulfur co-doped reduced graphene oxide (rGO)/gold nanoparticles hybrids for SERS sensing platform	Srivastava, A., Naqvi, T. K., Srivastava, A. K., Dwivedi, P. K., & Jha, Shikhar K	2024	363	114758
1148.	ACS Applied Optical Materials	Machine-learning-assisted design of multiband terahertz metamaterial absorber	Mukund Soni, Shikhar Misra	2023	1 (10)	1679-1687
1149.	RSC Digital Discovery	Automated extraction of synthesis parameters of pulsed laser-deposited materials from scientific literature	Rajan Kumar, Ablokit Joshi, Salman A. Khan, Shikhar Misra	2024	3	944-953
1150.	IEEE Transactions on Applied Superconductivity	Optimization of BaHfO <sub>3</sub> Additions to YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> Thin Films Over a Wide Temperature and Field Range	Mary Ann Sebastian, Charles Ebbing, Di Zhang, Shikhar Misra, Jijie Huang, Han Wang,	2023	33 (5)	8000805

			Haiyan Wang, Mohan Panth, Victor Ogunjimi, Judy Wu, Timothy Haugan			
1151.	Process safety and Environmental Protection	Removal of encapsulant ethylene-vinyl acetate for recycling of photovoltaic modules: Hansen solubility parameters analysis	HK Trivedi, RK Yadav, A Meshram, R Gupta	2024	186	<a href="https://doi.org/10.1016/j.psep.2024.04.112">https://doi.org/10.1016/j.psep.2024.04.112</a>
1152.	Canadian Metallurgical Quarterly	A review on existing pre-treatment techniques of waste printed circuit boards	R Jha, M Agrawak, A Jena, G Mishra, H R Verma, A Meshram, K K Singh	2024		<a href="https://doi.org/10.1080/00084433.2024.2310348">https://doi.org/10.1080/00084433.2024.2310348</a>
1153.	J. Mater. Engg. Perform.	The enhanced corrosion resistance of harmonic structured Cantor alloy in Hank's simulated body	Debdipta Banik, Saikat Mandal, S. Mukherjee, Hiroshi Fujiwara, K. Ameyama, K.	2024	33	385-397

		fluid	Mondal			
1154.	J. Mater. Engg. Perform.	Understanding the formation mechanism of Al-rich interfacial layer during galvanizing of Cu pre-coated high-strength steel sheet	Harikrishna Kancharla, G.K. Mandal, K.G. Pradeep, S.S. Singh, and K. Mondal	2024	33	999-1006
1155.	Wear	Effect of harmonic structure on the wear behavior of high entropy Cantor alloy	Debdipta Banik, Neetu, S. Mukherjee, Hiroshi Fujiwara, Kei Ameyama, and K. Mondal	2023	534-355	205125
1156.	Mater. Today Comm	Corrosion behaviour of microstructurally modified elastic rail clip steel under crevice and aggressive salt fog	Neetu, S. Sangal and K. Mondal	2023	35	106352
1157.	Mater Chem Phys	Effect of harmonic structure on the electrochemical behavior of high entropy Cantor alloy in NaCl	Debdipta Banik, B. Bhushan, S. Mukherjee, J. Bhagyaraj, Hiroshi	2023	298	127414

		solution	Fujiwara, Kei Ameyama, and K. Mondal			
1158.	J. Non-Cryst. Sol.	Prolong passivation of a novel Fe-based amorphous coating derived from high P pig iron	B. Bhushan, A. Banerjee, Pavan Kumar Bijalwan, Subodh Nath Patel, A.N. Bhagat, Debdipta Banik, Nisheeth Kr. Prasad, Harikrishna Kancharla, K. Mondal	2023	601	122051
1159.	Surf., Coat. Tech.	Electrochemical response and passivation affinity of Fe-based amorphous HVOF coatings prepared from pig iron on mild steel	B. Bhushan, A. Banerjee, Subodh Nath Patel, Debdipt Banik, Kirtiratan Godbole, K.Vishwanat h, Saikat Mandal, K.Mondal	2023	452	129082
1160.	J. Appl. Electrochem.		Nisheeth Kr. Prasad,	2023	53	141 – 165

			Harikrishna Kancharla, B. Bhushan, S. Kundu and K. Mondal			
1161.	Trans IIM	Experimental and Numerical Study of Shrinkage Formation in Aluminum Alloys	Telmasre, Tushar Khemraj, and Amarendra Kumar Singh.	2023	<a href="https://doi.org/10.1007/s12666-023-03172-0">https://doi.org/10.1007/s12666-023-03172-0</a>	
1162.	ACS Applied Energy Materials	Probing the Electrochemical Performance of SrFe <sub>0.9</sub> Ti <sub>0.1</sub> O <sub>3-δ</sub> for the Symmetric Electrode in Solid Oxide Fuel Cells	Sunil Kumar, Darshilkumar Chhatrodiya, and Shobit Omar	2024	7(6)	2153-2166
1163.	Oxford Open Materials Science	Investigating the influence of PVDF binder crystallinity on the performance of LiFePO <sub>4</sub> cathode in Li-ion batteries	Nishanth Joseph, Dinachandra Singh, Santu Panja, T Mani Chandran, Kumar Brajesh, Shobit Omar, and Kanwar S Nalwa	2023	3(1)	itad019



1164.	Journal of Power Sources	Mg-doped NASICON-type Electrolyte for Rechargeable Solid-State Sodium-ion Batteries	Anjan Chakraborty, Raghunayaku la Thirupathi, Kushal Singh, Sandipan Bhattacharyya and Shobit Omar	2023	572	233092
1165.	Progress in Materials Science	Recent Progress and Prospects of NASICON Framework Electrodes for Na-ion Batteries	Raghunayaku la Thirupathi, Sumanta Chakraborty, Vandana Kumari and Shobit Omar	2023	137	101128
1166.	Carbon	Enhanced thermoelectric performance with improved mechanical strength in Bi <sub>2</sub> S <sub>3</sub> /graphite composites	F. Anjum, P. Dixit, and T. Maiti	2024	218	118692
1167.	Energy Technology	Data-Driven Approach to Accelerate the Design of Halide Perovskite for Photovoltaic Application Using	S. Aggarwal, B. Jayam, and T. Maiti	2024		2301284

		Electronic Properties as Descriptors				
1168.	ACS Applied Energy Materials	Band-Structure Modification Leads to Enhanced Thermoelectric Performance of Bi <sub>2</sub> S <sub>3</sub> by CaCl <sub>2</sub> Doping	F Anjum, D Bhattacharjee, A Bhattacharya, T Maiti	2024	7(8)	3166–3174
1169.	Journal of Magnetism and Magnetic Materials	ESR and magnetization studies of double perovskite Sr <sub>2</sub> FeNbO <sub>6</sub>	DV Popov, RG Batulin, MA Cherosov, IV Yatsyk, TI Chupakhina, Yu A Deeva, RM Eremina, T Maiti	2024	595	171611
1170.	Žurnal eksperimental'noj i teoretičeskoj fiziki	Magnitnye svoystva dvoynogo perovskita Sr <sub>2</sub> CrNbO <sub>6</sub>	DV Popov, RG Batulin, MA Cherosov, IV Yatsyk, TI Chupakhina, Yu A Deeva, II Fazlizhanov, RM Eremina, T Maiti	2024	164(4)	643-649

1171.	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	D. Rana, V. Xavier, S. S. Jana, Tanmoy Maiti, T. Venkateswar an, and Kantesh Balani	2024	38	108434 (11 pp)
1172.	Materials Horizons	Designing Rare Earth Free High Entropy Oxide with Tungsten Bronze Structure for Thermoelectric Application	S. S. Jana, and T. Maiti	2023	10	1848–1855
1173.	Small	Enhanced thermoelectric performance of rare-earth-free n- type oxide perovskite composite with graphene analogous 2D MXene	P. Dixit, S. S. Jana, and T. Maiti	2023	19	2206710
1174.	Carbon	Rare earth free Oxide nano- composite of SrTi <sub>0.85</sub> Nb <sub>0.15</sub> O <sub>3</sub>	S. S. Jana, and T. Maiti	2023	202(2)	207

		and CNT for potential n-type Thermoelectrics				
1175.	ACS Applied Materials and Interfaces	Enhanced Thermoelectric Performance in the SrTi <sub>0.85</sub> Nb <sub>0.15</sub> O <sub>3</sub> Oxide Nanocomposite with Fe <sub>2</sub> O <sub>3</sub> -Functionalized Graphene	S. S. Jana, D Chatterjee and T. Maiti	2023	15 (41)	48246–48254
1176.	ACS Applied Energy Materials	Effect of MXene Addition on the Thermoelectric and Mechanical Properties of Skutterudite CoSb <sub>3</sub>	P. Dixit, S. Ghosh, R. C. Mallik and T. Maiti	2023	6 (23)	12105–12113
1177.	Journal of Physical Chemistry C	Synergistic Improvement in Thermoelectric Performance by Forming Environmentally Benign Transition Metal Oxide Composites with Graphite	S. S. Jana, S. Kumari and T. Maiti	2023	127 (27)	12849–12856
1178.	Journal of Applied physics	Study of charge transport mechanism in Ba	V. Kumar, S. Saini and T. Maiti	2023	133 (17)	164104

		doped Sr <sub>2</sub> CrMoO <sub>6</sub> double perovskite mixed ionic electronic conductor				
1179.	Journal of Materials Research	Optimal synthesis, fine-scale microstructural characterization, and property estimation of reactive-spark plasma sintered bulk multicomponent (Nb, Ti, Zr, Cr) B <sub>2</sub>	R. Mitra, T. Maity, N. Sharma, K. Tiwari, T. Maiti, K Biswas	2023	38 (8)	2122-2136
1180.	Magnetochemistry	Phase Separation in the Double Perovskite Sr <sub>2</sub> FeNbO <sub>6-δ</sub>	D. Popov, R. Batulin, M Cherosov, F. Vagizov, A. Zinnatullin, T Chupakhina, Y Deeva, T. Maiti and R. Eremina	2023	9(10)	219
1181.	Magnetic Resonance in Solids	Magnetic properties of the double perovskite Sr <sub>2</sub> CoNbO <sub>6-δ</sub>	D V Popov, R Batulin, M A Cherosov, I V Yatsyk, T Chupakhina, Y Deeva, R. M. Eremina	2023	25(3)	23301

			and T. Maiti			
1182.	Journal of Experimental and Theoretical Physics	Magnetic Properties of the Double Perovskite Sr <sub>2</sub> CrNbO <sub>6</sub>	D V Popov, R Batulin, M Cherosov, IV Yatsyk, T Chupakhina, Y Deeva, I Fazlizhanov, R. M. Eremina and T. Maiti	2023	137(4)	555–561
1183.	Applied Magnetic Resonance	Magnetic Phase Separation in Double Perovskite Sr <sub>2</sub> TiMnO <sub>5.87</sub>	D V Popov, I Yatsyk, R Batulin, M Cherosov, I R Vakhitov, I A Faizrakhmanov, RV Yusupov, T. I. Chupakhina, Y. A. Deeva, I Fazlizhanov, T. Maiti and R. M. Eremina	2023	54	561–580
1184.	Graphene and 2D Materials	High-quality, binder free, homogeneous robust and	Sangha Mitra, Chaitanya Krishna	2023	8	107-119

		multilayer functional graphene oxide films on copper by electrophoresis	Kamaja, Monica Katiyar			
1185.	Chemistry - An Asian Journal	"A review on flash sintering of graphene oxide films: Mechanism and recent advances in the field"	Sangha Mitra and Monica Katiyar,	2023	18(15)	e202300369
1186.	ACS Applied Materials & Interfaces,	Intrinsically stretchable conductive self-healable organogel for strain, pressure, temperature and humidity sensing	Amir Khan, Ravinder Reddy Kisannagar, Sadiq Mahmood, Wei-Tsung Chuang, Monica Katiyar, Dipti Gupta, Hong-Cheu Lin	2023	15(36)	42954-42964
1187.	Small Methods	"Large-area inkjet-printed flexible hybrid electrodes with photonic sintered silver grids/high conductive	Chandra Kant, Sadiq Mahmood, Madhu Seetharaman, Monica Katiyar,	2023	8(1)	2300638

		polymer"				
1188.	J. Mater. Chem. C	<p><u>“Self-healing and fully polymer-based super-moisture-resistant gas barrier coating films with 2D polymers for flexible electronic devices and packaging application”</u>,</p>	<p>· Sadiq Mahmood, Nadim Ahmad, Chandra Kant, Amir Khan, Pu-Wei Wu, Wen-bin Jian, Chih Wei Chu, Monica Katiyar and Hong-Cheu Lin,</p>	2023	11	15907-15917
1189.	ACS Appl. Polym. Mater. 2023	<p><u>· Sangha Mitra and Monica Katiyar, Integration of a Flexible, Stretchable, Environment-Benign, and Highly Conductive PVA/H3PO4 Hydrogel as a Quasi Solid-State Electrolyte in Reduced Graphene Oxide Supercapacitors,</u></p>	<p>Sangh Mitra and Monica Katiyar</p>	2023	5(12)	9825–9835



1190.	Nature Communications	<u>Large area inkjet-printed OLED fabrication with solution processed TADF ink,</u>	Chandra Kant, Atul Shukla, Sarah K.M. McGregor, Shih-Chen Lo, Ebinazar B Namdas, Monica Katiyar,	2023	14	Article No. 7220
1191.	ACS Nano	<u>Single-step Inkjet-Printed Dielectric Template for Large Area Flexible Signage and Low Information Displays</u>	Chandra Kant, M. Seetharaman, Sadiq Mahmood, Monica Katiyar,	2023	17(22)	22313-22325
1192.	Materials Letters	<u>Evolution of 3D microstructure and correlation with deformation behavior of as-cast Mg-4Zn-xCa alloys</u>	R. Pandey, G. Gupta, S.K. Pani, U. Godwal, J. Jain, S. Karagadde, S. Ghosh Chowdhury, S.S. Singh	2024	367	136583
1193.	Journal of Applied Electrochemistry	<u>Effect of inter-critical annealing atmosphere on microstructure and subsequent</u>	<u>Harikrishna Kancharla, G.K. Mandal, N K Prasad, B Bhushan, K Godbole,</u>	2023		

		<u>corrosion behavior of hot-dip galvanized Mn containing high-strength steel</u>	<u>S.S. Singh, and K. Mondal</u>			
1194.	Metals and Materials International	Role of chromium content on the microstructure and mechanical properties of lanthana based ferritic ODS steels	A. Kumar, J. Bhagyaraj, C. Singh, J. Jain, S. Mukherjee, K. Biswas, S. S. Singh	2023	29	1067-1078
1195.	Oxford Open Materials Science	Wear behavior of nano-La <sub>2</sub> O <sub>3</sub> dispersed ferritic ODS steel developed by spark plasma sintering	A. Kumar, A. Prasad, J. Bhagyaraj, J. Jain, S. Mukherjee, K. Biswas, S. S. Singh	2023	3	
1196.	Materials Science and Engineering A	<u>Elucidating the deformation behavior of as-cast B<sub>2</sub>CoTi intermetallic using in-situ tensile testing</u>	S. S. Panda, R. Sarvesha, J. Jain, S. S. Singh	2023	871	144901
1197.	Trans IIM	Effect of Aluminum Content on the Crevice Corrosion Behavior of Magnesium	Neetu, Ireddey Nikhila, S. S. Panda, Uttam Reddy, J.	2023	77	1265–1274

		Alloys	Jain, K. Mondal, S. S. Singh			
1198.	Materials Science and Engineering: A	Deformation behaviour of the silicon doped metastable Fe <sub>50</sub> -xMn <sub>30</sub> Co <sub>10</sub> Cr <sub>10</sub> Si <sub>x</sub> complex concentrated alloy using experiments and crystal plasticity simulations	Jain, Roopam (57214321713); Kumar, Mirtunjay (57214630373); Biswas, Krishanu (35562801100); Gurao, N.P. (23987662000)	2023	885	9671-9686
1199.	Journal of Materials Engineering and Performance	In-Situ Electron Backscatter Diffraction Study of Deformation Behavior of Fine-grained Dual Phase Steel Subjected to Uniaxial Tension	Nagarajan, Srinivasan (56724314400); Jain, Roopam (57214321713); Jha, Sumit (58068039500); Sahu, Vivek Kumar (57212037544); Gurao, N.P. (23987662000)	2023	32	
1200.	Modelling and Simulation in Materials	Multivariant microstructure	Bandyopadhyay, Soumya	2023	31	

	Science and Engineering	evolution in Ti-alloys: insights from a quantitative phase-field study	(57210469823); Panwar, Vishal (58535212600); Guin, Sandip (58535212700); Anoop, C.R. (57021598700); Gurao, Nilesh Prakash (23987662000); Mukherjee, Rajdip (37023504000)			
1201.	Materials Science and Engineering: A	Heterogeneous microstructure in nonequiatomic MoNbTaVW refractory high entropy alloy after high pressure torsion: Evolution mechanisms and mechanical properties	Raturi, Abheepsit (57210197119); Chawake, Niraj (55711205200); Biswas, Krishanu (35562801100); Gurao, N.P. (23987662000)	2023	864	

1202.	Materials Science and Engineering: A	Elucidating the extreme anisotropy in the J-integral value of commercially pure titanium	Sahu, Vivek Kumar (57212037544); Yadava, Manasij (24781364600); Gurao, Nilesh P. (23987662000)	2023	881	
1203.	Materialia	Micro-mechanisms of deformation and strengthening during high pressure torsion of CoCuFeMnNi high entropy alloy	Sonkusare, Reshma (56965045200); Gurao, N.P. (23987662000); Biswas, Krishanu (35562801100); Basu, Joysurya (7102148580); Sen, S. (57195806814); Pradeep, K.G. (55704379400); Praveena, Manimunda (56509667400); Bhowmick, Sanjit	2023	32	

			(9844415200); Bhowmick, Somnath (15047577600); Kilmametov, A. (6603153834); Palit, M. (15019835100)			
1204.	Materialia	The effect of Si addition on the structure and mechanical properties of equiatomic CoCrFeMnNi high entropy alloy by experiment and simulation	Kumar, Jitesh (57214276796); Linda, Albert (57836890500); Sadhasivam, M. (57214272364); Pradeep, K.G. (55704379400); Gurao, N.P. (23987662000); Biswas, Krishanu (35562801100)	2023	27	
1205.	Materials Science and Engineering: A	Room temperature cyclic creep	Bahadur, Fateh	2023	865	

		behaviour of equimolar CoCuFeMnNi high entropy alloy	(57215541384); Kumar, Jitesh (57214276796); Gururaj, Karanam (46660903800); Yadav, Manoj Kumar (58444433300); Tan, S. (58069028200); Pradeep, K.G. (55704379400); Gurao, N.P. (23987662000); Biswas, Krishanu (35562801100)			
1206.	Metals and Materials International	Influence of Scanning and Building Strategies on the Deformation Behavior of Additively Manufactured AlSi10Mg: CPFEM and Finite	Chakrabarty, Aniket (57194045999); Chakraborty, Pritam (8366540300); Jain, Roopam (5721432171)	2023	29	2978-3008

		Element Studies	3); Sahu, Vivek Kr. (5721203754 4); Gurao, N.P. (2398766200 0); Bar, H.N. (1004075810 0); Khutia, Niloy (5579729060 0)			
1207.	International Journal of Plasticity	Bidirectional transformation enabled improvement in strength and ductility of metastable Fe <sub>50</sub> Mn <sub>30</sub> Co <sub>10</sub> Cr <sub>10</sub> complex concentrated alloy under dynamic deformation	Jain, Roopam (5721432171 3); Parameswaran, Venkitanarayan (5667094720 0); Biswas, Krishanu (3556280110 0); Gurao, N.P. (2398766200 0)	2023	166	
1208.	International Journal of Plasticity	Rate controlling deformation mechanisms in SS316L stainless steel manufactured	Jain, Roopam (5721432171 3); Yadava, Manasij (2478136460 0)	2023	171	



		using laser powder bed fusion technique	0); Tripathi, Aparna (57194971890); Gurao, N.P. (23987662000)			
1209.	Lasers in Manufacturing and Materials Processing	Effect of Build and Scan Direction on Tensile Properties of Selective Laser Melted SS316L Alloy	Kumar, B. Sai Bharat (57214152461); Yadav, Dhananjay K. (59062818900); Jain, Roopam (57214321713); Gupta, Nikhil (8345754300); Gurao, Nilesh P. (23987662000); Sinha, Niraj (17344586800)	2023	10	330-352
1210.	Journal of Materials Science	An experimental and crystal plasticity simulation study on kink band-assisted grain fragmentation	Mahato, Swati (58339690800); Chandrakar, Shirish	2024	59	6075-6096

		during high-pressure torsion of (CrFeNi) <sub>99</sub> Si <sub>1</sub> medium-entropy alloy	(58782181400); Biswas, Krishanu (35562801100); Gurao, Nilesh P. (23987662000)			
1211.	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, Vivek Kumar (57212037544); Chakraborty, Pritam (8366540300); Yadava, Manasij (24781364600); Gurao, Nilesh P. (23987662000)	2024	177	
1212.	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	Mahato, Swati (58339690800); Gurao, Nilesh P (23987662000); Biswas, Krishanu (35562801100)	2024	32	

		feature analysis				
1213.	Oxford Open Materials Science	Derivation of expressions for interdiffusion and intrinsic diffusion flux in presence of chemical potential gradient in a multicomponent system with composition dependent molar volume	Kaustubh N. Kulkarni	2023	3 (1)	itad018
1214.	SAE Technical Paper	Diffusional Interactions and their Applications in Reducing Interdiffusion in Bond Coat Systems Used in Turbine Blades	Biswarupa Samantaray, Kaustubh N. Kulkarni	2023	28	1354
1215.	Metallurgical and Materials Transactions A	Experimental Determination of Vacancy Formation Energies in Multicomponent Systems	Susanta Kumar Nayak, Somanath Danayak, Kaustubh N Kulkarni	2023	54	3341-3348
1216.	Journal of Materials Research	Experimental determination of (BCC+ FCC) phase	Biswarupa Samantaray, Kaustubh N	2023	38 (17)	4081-4092

		fields in the quaternary isotherm of Fe–Ni–Co–Cu at 950° C	Kulkarni			
1217.	Transactions of the Indian National Academy of Engineering	A Combinatorial Study of Diffusion Path, Mechanical Strength, and Kinetic Assessment of $\gamma$ -FeNiCu Alloys at 1000 °C	Susanta Kumar Nayak, Kaustubh N Kulkarni	2024	19 Feb 2024	1-6
1218.	Journal of Phase Equilibria and Diffusion	Effect of Gibbs Free Energies of Terminal Alloys on the Diffusion Paths and Diffusion Depths in Couples Assembled with $\gamma$ -Phase Fe-Ni-Cu Alloys at 1000 °C	Susanta Kumar Nayak, Biswarupa Samantaray, Kaustubh N Kulkarni	2024	45	175-184
1219.	Metallurgical and Materials Transactions A	Ternary Interdiffusion Analysis in $\beta$ -(Ni,Pt)Al System Pertaining to Bond Coat Applications	Biswarupa Samantaray, Dipak Das, Zafir Alam, Kaustubh N Kulkarni	2024	doi: <a href="https://doi.org/10.1007/s11661-024-07421-9">https://doi.org/10.1007/s11661-024-07421-9</a>	
1220.	Journal of Materials Science	An experimental and crystal plasticity simulation study on kink band assisted	S Mahato, S Chadrakar, K Biswas, N Gurao	2023		

		grain fragmentation during high pressure torsion of (CrFeNi) <sub>99</sub> Si <sub>1</sub> medium entropy alloy				
1221.	Trans. of Indian Institute of Metals	Microstructure Evolution and Mechanical Properties of Dual Phase Refractory HfTiZr Medium Entropy Alloy with the Small Addition of Dy and Nd	A Dixit, S Mahato, K. Biswas	2023		
1222.	Transactions of Indian National Academy of Engineering	Product Development Using (CoCrFeMnNi) <sub>95</sub> A <sub>15</sub> High Entropy Alloy for Cryogenic Application	J Kumar, M K Yadav, N Nayan, R K Gupta, K. Biswas	2023		
1223.	Journal of Energy Storage	Surface engineering of 2D layered MnO <sub>2</sub> with co-doping of Ni and Fe for rechargeable zinc-air battery	Aditi Halder Ankita Mathur, Sonu Kumari, Arkaj Singh, Rahul Mitra, Ravinder Sharma, Krishanu	2023	Part B 74	109350

			Biswas			
1224.	Materialia	An Experimental and Computational Framework to Investigate the Thermal Cycling Approach for Strengthening Low SFE FeMnNi Medium Entropy Alloy	Saumya Ranjan Jha, Surya Ardhham, Gerald Tennyson, N.P.Gurao and Krishanu Biswas	2023	32	101937
1225.	Journal of Alloys and Compounds	Microstructure and mechanical property correlation in Silicon-doped equiatomic FeMnNi MEA: Experiments and simulation	J Sen, S R Jha, J Kumar and Krishanu Biswas	2023	965	171491
1226.	Materials Science and Engineering: A	Deformation behaviour of the silicon doped metastable Fe <sub>50-x</sub> Mn <sub>30</sub> Co <sub>10</sub> Cr <sub>10</sub> Si <sub>x</sub> complex concentrated alloy using experiments and crystal plasticity simulations	Roopam Jain, Mirtunjay Kumar, Krishanu Biswas, NP Gurao	2023	885	145620

1227.			Sumit Kumar, Mustaque A. Khan, Shashank Shekhar Mishra, Rajneesh Chaurasiya, Nipun Sharma, Meng Gang, Chandra S. Tiwary, Krishanu Biswas and Mahesh Kumar	2023	11	15119-15129
	J. Mater. Chem., C	1T and 2H mixed phase WS <sub>2</sub> nanoflakes decorated with quasicrystal nanosheets for NO <sub>2</sub> sensors				
1228.			Bidesh Mondal, Xiaolei Zhang, Sumit Kumar, Feng Long, bd Nirmal Kumar Katiyar, Mahesh Kumar, Saurav Goel and Krishanu Biswas	2023	15	17097-17104
	Nanoscale	A resistance-driven H <sub>2</sub> gas sensor: high-entropy alloy nanoparticles decorated 2D MoS <sub>2</sub>				

1229.			Chetna Madan, Saumya R. Jha, Nirmal Kumar Katiyar, Arkaj Singh, Rahul Mitra, Chandra Sekhar Tiwary, Krishanu Biswas and Aditi Halder	2023	2	2055-2068
	Energy Adv.					
1230.			Reshma Sonkusare, N.P. Gurao, Krishanu Biswas, Joysurya Basu, S. Sen, K.G. Pradeep, Manimunda Praveena, Sanjit Bhowmick, Somnath Bhowmick, A. Kilmametov, M Palit			
	Materialia	Micro-mechanisms of deformation and strengthening during high pressure torsion of CoCuFeMnNi high entropy alloy		2023	32	101916



1231.		A facile and green synthesis of Mn and P functionalized graphitic carbon nitride nanosheets for spintronics devices and enhanced photocatalytic performance under visible-light	Deepak Kumar Gorai, Saikat Kumar Kuila, Akash Oraon, Anurag Kumar, Mukesh Suthar, Rahul Mitra, Krishanu Biswas, PK Roy, Md Imteyaz Ahmad, Tarun Kumar Kundu	2023	644	397-414
1232.		Effects of size on water vapour absorption and regeneration in lithium chloride nanocrystals	Abhinav Prakash, Nirmal Kumar Katiyar, Martha Y Suarez-Villagran, John H Miller Jr, Leonardo D Machado, CS Tiwary, Krishanu Biswas, Kamanio	2023	36	106388
	Journal of Colloid and Interface Science					
	Materials Today Communications					

			Chattopadhyay			
1233.	International Journal of Plasticity	Bidirectional transformation enabled improvement in strength and ductility of metastable Fe <sub>50</sub> Mn <sub>30</sub> Co <sub>10</sub> Cr <sub>10</sub> complex concentrated alloy under dynamic deformation	R Jain, V Parameswaran, K. Biswas, NP Gurao	2023	166	103633
1234.	Materials Chemistry and Physics	Thermal Stability and Crystallization Behavior of Newly Developed Cu-Zr-Ag-Ti-Ni Multicomponent Bulk Metallic Glass	A Bajpai, K Biswas	2023	302	128092
1235.	Journal of Physical Chemistry C	Enhanced Light Scattering Using Two-Dimensional Quasicrystals Decorated 3D Printed Nature-Inspired Bio-Photonic Architecture	Partha Kumbhakar, Ashim Pramanik, Shashank Shekhar Mishra, Raphael Tromer, Krishanu	2023	127	9779–9786

			Biswas, Arup Dasgupta, Douglas S Galvao, Chandra Sekhar Tiwary			
1236.	Journal of Materials Research	Optimal synthesis, fine-scale microstructural characterization, and property estimation of reactive-spark plasma sintered bulk multicomponent (Nb, Ti, Zr, Cr) B2	R Mitra, T Maity, N Sharma, K Tiwari, T Maiti, K Biswas	2023	38(8)	2122-2136
1237.	Computational Materials Science	ADASYN-assisted machine learning for phase prediction of high entropy carbides	R Mitra, A Bajpai, K Biswas	2023	223	112142
1238.	J. App. Physics	Lattice Distortion in FCC HEAs and Its Effect on Mechanical Properties: Critical Analysis and Way Forward	J Kumar, A Linda, K Biswas	2023	133(15)	155102

1239.	Materials Chemistry and Physics	Utilization of two-dimensional multicomponent Quasicrystal for NO <sub>2</sub> gas detection	SS Mishra, Sumit Kumar, Partha Kumbhakar, Nirmal Kumar Katiyar, Raphael Tromer, Cristiano F Woellner, Douglas S Galvao, Chandra S Tiwary, Mahesh Kumar, Krishanu Biswas	2023	298	127449
1240.	Metals and Materials International	Role of Chromium Content on the Microstructure and Mechanical Properties of Lanthana Based Ferritic ODS Steels	A Kumar, B Jayabalan, C Singh, J Jain, S Mukherjee, K Biswas, SS Singh	2023	29(4)	1067-1078
1241.	International Journal of Metalcasting	High entropy alloys: laboratory to industrial attempt	J Kumar, N Nayan, RK Gupta, M Ramalingam Munisamy, K	2023	17 (2)	860-873

			Biswas			
1242.	ACS Applied Nano Materials	Nanocomposites of Quasicrystal Nanosheets and MoS <sub>2</sub> Nanoflakes for NO <sub>2</sub> Gas Sensors	Sumit Kumar, Rajneesh Chaurasiya, Shashank Shekhar Mishra, Partha Kumbhakar, Gang Meng, Chandra Sekhar Tiwary, Krishanu Biswas, Mahesh Kumar	2023	6 (7)	5952-5962
1243.	Materialia	The effect of Si addition on the structure and mechanical properties of equiatomic CoCrFeMnNi high entropy alloy by experiment and simulation	J Kumar, A Linda, M Sadhasivam, KG Pradeep, NP Gurao, K Biswas	2023	27	101707
1244.	Materials Science and Engineering: A	Room temperature cyclic creep behaviour of	Fateh Bahadur, Jitesh Kumar,	2023	865	144587

		equimolar CoCuFeMnNi high entropy alloy	Karanam Gururaj, Manoj Kumar Yadav, S Tan, KG Pradeep, NP Gurao, Krishanu Biswas			
1245.	Journal of Applied Polymer Science	Flexural behavior of pMWCNTs filled glass fiber/epoxy nanocomposites: Synthesis and interfacial failure	S Mandal, S Sethi, K Biswas	2023	140 (6)	e53438
1246.	Materials Science and Engineering: A	Heterogeneous microstructure in nonequiatomic MoNbTaVW refractory high entropy alloy after high pressure torsion: Evolution mechanisms and mechanical properties	A Raturi, N Chawake, K Biswas, NP Gurao	2023	864	144530
1247.	Energy Technology	Two-Dimensional Multicomponent Quasicrystal as Bifunctional	Shashank Shekhar Mishra, Partha	2023	11 (2)	2200860

		Electrocatalysts for Alkaline Oxygen and Hydrogen Evolution Reactions	Kumbhakar, Subramanian Nelliappan, Nirmal Kumar Katiyar, Raphael Tromer, Cristiano F Woellner, Douglas S Galvao, Chandra S Tiwary, Chanchal Ghosh, Arup Dasgupta, Krishanu Biswas			
1248.	Philosophical Magazine	A new approach to design multicomponent metallic glasses using the mendeleev number	A Bajpai, J Bhatt, NP Gurao, K Biswas	2023	102 (24)	2554-2571
1249.	Modelling and Simulation in Materials Science and Engineering	Accelerated Prediction of Stacking Fault Energy in FCC Medium Entropy Alloys using Multilayer	S.Mahato, N.P.Gurao and Krishanu Biswas	2024	DOI: 10.1088/1361-651X/ad269f	

		Perceptron Neural Networks: Correlation and Feature Analysis				
1250.	RSC Sustainability	Recovery of Rare Earth Elements (Nd, Dy) from Discarded Hard Disk Magnets using EDTA Functionalised Chitosan	Shruti Srivastava, Anurag Bajpai, Syed Mohammad Musthaq and Krishanu Biswas	2024	2 (4)	1088-1100
1251.	EES Catalysis	Jan Rossmeisl, María Escudero-Escribano; Toward understanding CO oxidation on high-entropy alloy electrocatalyst	María Paula Salinas-Quezada, Paula Sebastián-Pascual, Ib Chorkendorff, Krishanu Biswas	2024	<a href="https://doi.org/10.1039/D4EY00023D">https://doi.org/10.1039/D4EY00023D</a>	
1252.	Advanced Sustainable Systems	Utilization of high entropy alloy (Co-Cu-Fe-Mn-Ni) and support (CeO <sub>2</sub> ) interaction for CO <sub>2</sub> conversion into syngas	Bhanu Pratap Gangwar, Rahul Mitra, Arko Parui, Pooja Gakhad, Pradeep Yadav, Abhishek Singh, Chandra Sekhar	2024	In press	



			Tiwary, Krishanu Biswas, Sudhanshu Sharma			
1253.	J. App. Physics (Special issue on HEMs)	Oxides to multicomponent diborides, carbides and nitrides: ML aided synthesis	R. Mitra and Krishanu Biswas	2024	In press	
1254.	J. App. Physics (Special issue on HEMs)	Kinetics of Plastic Deformation in FCC Medium Entropy Alloys: Issues on Strain Rate Sensitivity and Activation Volume	S. Mahato, S.R. Jha, Krishanu Biswas, N.P.Gurao	2024	In press	

**Department of Mathematics and Statistics**

1255.	Mediterranean Journal of Mathematics	Weighted Composition Operators Between Weighted Hardy Spaces on Rooted Trees	P. Muthukumar, Ajay K. Sharma and Vivek Kumar	2023	20(Article No: 61)	20 pages 2023
1256.	Thailand Statistician	Comparison of estimates and predictors using joint type-II progressive censored samples	D. Kundu, M.Z. Raqab and O.M. Bdair	2023	vol. 21	529 - 551

		from two generalized Rayleigh distribution Insurance Claims				
1257.	Communications in Statistics- Simulation and Computation	A sequential sampling approach for discriminating log-normal, Weibull and log-logistic distribution	D. Kundu, Biplab Paul and Shyamal K. De	2023	vol. 52, no. 12	5857 - 5879
1258.	Journal of Risk and Reliability	Misspecification of Copula for One-Shot Devices under Constant Stress Accelerated Life-Tests	D. Kundu; Deepak Prajapati, Man Ho Ling and Ping Shing Ben Chan,	2023	vol. 237	725 - 740
1259.	Journal of Statistical Theory and Practice	Bayesian sampling plan for the exponential distribution with generalized Type-I hybrid censoring scheme	D. Kundu, Deepak Prajapati, Sharmistha Mitra	2023	Vol. 17, Article No. 5	
1260.	Circuits, Systems and Signal Processing	On Weighted Least Squares Estimators of Parameters of a Chirp Model	D. Kundu, Swagata Nandi and Rhythm Grover	2023	Vol. 42, No.1	493 - 521

1261.	American Journal of Mathematical and Management Sciences	Estimation after selection from uniform populations with unequal sample sizes	M Arshad, N. Misra	2023	34(4)	367-391.
1262.	Mathematics and Computers in Simulation	Multi-force effect on fluid flow, heat and mass transfer, and entropy generation in a stratified fluid-saturated porous enclosure	Vinay Kumar, S.V.S.S.N.V. G. Krishna Murthy, B.V. Rathish Kumar	2023	203	328–367
1263.	Comm. Algebra	On projective representations of finitely generated groups	Sumana Hatui, E. K. Narayanan, Pooja Singla	2023	51, no. 5	1994–2003
1264.	Algebr. Represent. Theory	On quasi Steinberg characters of complex reflection groups	Ashish Mishra, Digjoy Paul, Pooja Singla	2023	26, no. 6	3101–3118
1265.	Journal of Applied Statistics	A Stationary Weibull-process and its applications	D. Kundu	2023	vol. 50, no. 13	2681 - 2700
1266.	Discrete Mathematics	Euclidean algorithm for a class of linear orders	Shashwat Agrawal, Amit Kuber, Esha Gupta	2023	Volume 346 (12)Paper ID: 113639	

1267.	Proc. Indian Acad. Sci. Math. Sci.	On the Clebsch-Gordan coefficients for the quantum group $U_q(2)$	S. Guin and B. Saurabh	2023	133 (2023), no. 2,	Paper No. 44
1268.	Journal of Economic Theory	Committee Formation Under Constraints through Random Voting Rules on Separable Domains	Soumyarup Sadhukhan, Souvik Roy	2023	Volume 209, 105648	
1269.	Journal of Mathematical Economics	On a Class of Strategy-proof Social Choice Correspondences with Single-peaked Utility Functions	Soumyarup Sadhukhan, Chinmay Ingalagavi	2023	Volume 109	
1270.	Electronic Journal of Probability	Lévy Flows and associated Stochastic PDEs	Arvind Kumar Nath and Suprio Bhar	2023	Vol 28	15 pages
1271.	Linear Algebra and its Applications	Automatic Selfadjoint-ideal Semigroups for Finite Matrices	S. Patnaik, Sanehlata, and G. Weiss	2023		
1272.	Journal of Hyperbolic Differential Equations	Kolmogorov continuity and stability of sample paths of entropy solutions of stochastic	Suprio Bhar, Imran H. Biswas, Saibal Khan and Guy Vallet	2023	Vol. 20, No. 02	pp. 277-348

		conservation laws				
1273.	PloS One	Understanding the implications of under-reporting, vaccine efficiency and social behavior on the postpandemic spread using physics informed neural networks: a case study of China	S. Ghosh, A. Ogueda-Oliva, A. Ghosh, M. Banerjee and P. Seshaiyer	2023	18(11)	
1274.	J. Math. Biol.	Analytical detection of stationary and dynamic patterns in a prey-predator model with reproductive Allee effect in prey growth	S. Dey, S. Ghorai and M. Banerjee	2023	87, 21	
1275.	Nonlin. Dyna.	Spatio-temporal dynamics of a SIS model with nonlinear incidence and nonlocal disease transmission	D.K. Das, S. Ghorai and M. Banerjee	2023	111	15591 – 15612
1276.	Math. Biosci. Eng.	An Epidemic model with time delays determined	M. Saade, S. Ghosh, M. Banerjee and	2023	20	12864 – 12888

		by the infectivity and disease durations	V. Volpert			
1277.	Phy. Rev. E	Saddle-node bifurcation of periodic orbit route to hidden attractors	S. Kumarasamy, M Banerjee, V. Varshney, M. D. Shrimali, N. V. Kuznetsov, A. Prasad	2023	107(5), L052201	
1278.	Sci. Rep	A mathematical modeling technique to understand the role of decoy receptors in ligand-receptor interaction	S. Dey, A. Ghosh and M Banerjee	2023	13(1)6523	
1279.	Math. Comp. Simu.	Maturation delay induced stability enhancement and shift of bifurcation thresholds in a predator-prey model with generalist predator	J. Roy, S. Dey and M Banerjee	2023	211	368 – 393
1280.	Chaos Solitons & Fractals	Spatio-temporal pattern selection in a Prey-Predator Model with Hunting	R. Han, S. Dey and M Banerjee	2023	171	

		Cooperation and Allee effect in prey				
1281.	Algebra. Represent. Theory	Weyl modules of toroidal Lie algebra	Sudipta Mukherjee; Santosha Pattanayak; Sachin S. Sharma.	2023	26 no 6	2605- 2626
1282.	Oper. Matrices	Interpolating sequences for the Banach algebra generated by a class of test functions	A. Biswas, V. S. Chandel	2023	17 (2023), no. 2	295-315
1283.	J. Geom. Phys.	K-theory and equivariant spectral triple for the quantum group $Uq(2)$ for complex deformation parameters	S. Guin, Bipul Saurabh	2023	185 (2023), Paper No. 104748	
1284.	Journal of Geometric Analysis	Quasi-Invariance of the Dirichlet series kernels, Analytic symbols and Homogeneous operators	S. Chavan, C. K. Sahu	2023	Paper No. 365,	29 pp
1285.	Acta Sci Szeged	Analyticity, rank one perturbations and the invariance	S. Chavan, S. Ghara and P. Pramanick	2023	89	559-571

		of the left spectrum				
1286.	Topology and its application	On KO-groups of complex Milnor Manifolds	Devender Singh, B. Subhash and Ajay Singh Thakur	2023	Vol 337	
1287.	Communications in Algebra	On Lie algebroid over algebraic spaces	Ashis Mandal, Abhishek Sarkar	2023	51(4)	1594-1613
1288.	Differ. Equ. Dyn. Syst.	Hilfer fractional differential equations with almost sectorial operators	Anjali Jaiswal, D Bahuguna,	2023	31(6)	301-317
1289.	Proc. Roy. Soc. Edinburgh Sect. A	Weakly concave operators	S. Chavan and J. Stochel	2024	154	
1290.	Linear Algebra Appl.	A spectral dichotomy for commuting $m$ -isometries with negative core operator	S. Bera, S. Chavan and S. Ghara	2024	688	244-255
1291.	Proc Amer Math Soc	Convergence of power sequences of $B$ -operators with applications to stability	S. Chavan, Z. Jabłoński, I. B. Jung and J. Stochel	2024	152	2035-2050



1292.	Advanced Modeling and Simulation in Engineering Sciences	Fast rapidly convergent penetrable scattering computations	J. Paul, A. Pandey, B. V. R. Kumar and A. Anand	2024	Volume 11, Article Number 2	
1293.	Computers and Mathematics with Applications	A fast, rapidly convergent Nyström solver for electromagnetic scattering from orthotropic media	A. K. Tiwari, A. Pandey and A. Anand	2024	Volume 154	Pages 58-64
1294.	Journal of Geometry and Physics	A note on the Gromov width of toric manifolds	Narasimha Chary Bonala and Stéphanie Cupit-Foutou	2024	Volume 199 , 105149	
1295.	Journal of Convex Analysis	Extensions of Continuous Linear Functionals and Smoothness of Banach Spaces	P. Gayathri, P. Shunmugaraj and V. Thota	2024	31 (2024), No. 1	195--226
1296.	Journal of Convex Analysis	Compactly Locally Uniformly Convex Functions	P. Shunmugaraj and C. Zălinescu	2024	31 (2024), No. 4	
1297.	Biometrical Journal	Bayesian optimal stepped wedge design	Satya Prakash Singh	2024	66(1): 2300168	
1298.	Integral Equations and Operator Theory	On commutators of compact operators:	J. Loreaux, S. Patnaik, S.	2024		

		generalizations and limitations of Anderson's approach	Petrovic, and G. Weiss			
1299.	Advances in Mathematics Research	Regression Modelling Under Lp-Norm Loss Function Editor: Albert R. Baswell, Nova Science Publisher	Swati Shukla, S.S. Dhar and Shalabh	2024		pp. 121-144
1300.	J. Biol. Dyn.	Hunting cooperation in a prey-predator model with maturation delay	Y. Enatsu, J. Roy and M. Banerjee	2024	18(1), 2332279	
1301.	Comm. Nonlin. Sci. Num. Simu.	Non-smooth dynamics of a fishery model with a two-threshold harvesting policy	J. Bhattacharyya, M. Banerjee and S. Banerjee	2024	133	
1302.	Bull. Math. Biol.	Combinatorial cooperativity can facilitate epithelial-mesenchymal transition in a miR200-Zeb feedback network	M. Rashid, B. M. Devi and M. Banerjee	2024	86	
1303.	Math. Biosci.	Delay Epidemic Models Determined by	M. Saade, S. Ghosh, M. Banerjee and	2024	370, 109155	

		Latency, Infection, and Immunity Duration	V. Volpert			
1304.	DCDS-B	Spatio-temporal dynamics in a diffusive Bazykin model: effects of group defense and prey-taxis	S. Dey, M. Banerjee and S. Ghorai	2024	29(6)	2497 – 2531
1305.	Advances in Mathematics Research	Regression Modelling Under Lp-Norm Loss Function	Swati Shukla, Subhra Sankar Dhar and Shalabh	2024	20(Article No: 61)	121-144
1306.	International Encyclopedia of Statistical Science	James--Stein Estimator in Regression and Econometric Models	Christian Heumann and Shalabh	2024		In press
1307.	J. Algebra	Representation of map extended Witt algebras.	Sachin S. Sharma; Priyanshu Chakraborty; Ritesh Kumar Pandey; S. Eswara Rao	2024	639	327-353
1308.	Journal of Pure and Applied Algebra	On some central operators for loop Lie superalgebras	Sudipta Mukherjee; Santosha Pattanayak; Sachin S.	2024	228(7)	

			Sharma			
1309.	Sankhya: The Indian Journal of Statistics	Robust statistical modeling of monthly rainfall: The minimum density power divergence approach	Arnab Hazra and Abhik Ghosh	2024	86	241-279
1310.	Communications in Statistics – Theory and Methods	Minimum Density Power Divergence Estimation for the Generalized Exponential Distribution	Arnab Hazra	2024	Publishe d online	
1311.	Journal of Agricultural, Biological and Environmental Statistics (JABES)	Exploring the Efficacy of Statistical and Deep Learning Methods for Large Spatial Datasets: A Case Study	Arnab Hazra, Pratik Nag, Rishikesh Yadav, and Ying Sun	2024	Publishe d online	
1312.	Journal of Agricultural, Biological and Environmental Statistics (JABES)	Spatial Wildfire Risk Modeling Using a Tree-Based Multivariate Generalized Pareto Mixture Model	Daniela Cisneros, Arnab Hazra, and Raphael Huser	2024	29	320-345
1313.	Journal of Mathematical Analysis and Applications.	Magnetic fractional Poincaré inequality in punctured	Kaushik Bal, Kaushik Mohanta,	2024	535 no 1 paper no- 128103	21pp

		domains	Prosenjit Roy			
1314.	Psychometrika	Bayesian semiparametric longitudinal inverse-probit mixed models for category learning	Mukhopadhyay, M., McHaney, J., Chandrasekaran, B. and Sarkar, A	2024		

**Department of Mechanical Engineering**

1315.	Additive Manufacturing	Development and validation of a material evaporation assisted thermal model for time-efficient calculation of thermal and solidification parameters during laser powder bed fusion process for Ti6Al4V	A.K. Mishra, A. Kumar, Govind	2023	66	103453
1316.	International Journal of Heat and Mass Transfer	Investigation of the transient coupling between the dynamic laser beam absorptance and the melt pool - vapor depression morphology in laser powder bed	A. Aggarwal, Y. Shin, A. Kumar	2023	201	123663

		fusion process				
1317.	Engineering Failure Analysis	Taking inspiration from medieval architecture: Using catenary arches in place of straight beam as the building block into bending-dominated lattice structures	A.K. Mishra, A. Kumar	2023	152	107476
1318.	Engineering Failure Analysis	Performance of asymmetric octet lattice structures under compressive and bending loads	A.K. Mishra, J. Chavan, A. Kumar	2023	154	107669
1319.	Thin-Walled Structures	Effect of cell size and wall thickness on the compression performance of triply periodic minimal surface based AISi10Mg lattice structures	A.K. Mishra, A. Kumar	2023	193	111214
1320.	Journal of Manufacturing Processes	Magnetic non-destructive evaluation of microstructural and mechanical characteristics of hardened AISI H13 die steel upon	A.S. Awale, A. Srivastava, A. Kumar, M.Z. Khan Yusufzai, M. Vashista	2023	103	193-206

		sustainable grinding				
1321.	Tribology International	Characterization of ultrafine grain tungsten carbide tool and its wear investigation in friction stir welding of HSLA steel	A. Tiwari, P. Pankaj, P. Biswas, A. Kumar	2023	186	108579
1322.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Numerical simulations of the effect on twisted spacer filaments on biofouling and scaling in the feed channel of reverse osmosis membrane modules	C.P. Singh, R.V. Patel, A. Yadav, A. Kumar	2023	666	131333
1323.	Metals and Materials International	Investigation of cracking susceptibility and porosity formation and its mitigation techniques in laser powder bed fusion of Al 7075 alloy	M. Patel, A. Aggarwal, A. Kumar	2023	29	2358–2373
1324.	Experimental Mechanics	Compression behavior of triply periodic minimal surface polymer lattice structures	A.K. Mishra, A. Kumar	2023	63	609–620

1325.	Thermal Science and Engineering Progress	Computational analysis of the thermo-hydrodynamic transport processes during substrate re-melting in laser powder bed fusion of AlSi10Mg	A.K. Mishra, A. Kumar	2023	39	101698
1326.	Journal of Energy Storage	Effect of segregation and advection governed heterogeneous distribution of nanoparticles on NEPCM discharging behavior	S. Patil, C. Kataria, A. Kumar, A. Kumar	2023	57	106230
1327.	IOP Series-Mater. Sci. Engg	In-situ experimental investigations of the morphological characteristics of plumes and chimneys formed during the directional solidification of a binary alloy	A. Kumar, A. Kumar	2023	1274	012022
1328.	International Journal of Heat and Mass Transfer	Unravelling keyhole instabilities and	A. Aggarwal, Y. Shin, A.	2024	219	124841



		laser absorption dynamics during laser irradiation of Ti6Al4V: A high-fidelity thermo-fluidic study	Kumar			
1329.	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, A. Kumar	2024	197	108816
1330.	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, A. Kumar	2024		
1331.	ASME J. Heat Mass Transfer-Trans. ASME	Accurate prediction of transport coefficients of an evaporating liquid drop	A.K. Pal and G. Biswas	2023	145	041602-1-041602-9
1332.	Langmuir	Head-On Collision of Dissimilar Viscosity Drops	H. Deka, G. Biswas and B.J. Bora	2023	39	8130–8140

1333.	Energy Advances	An aqueous rechargeable and high-capacity zinc ion battery using a novel rGO–V2O5–SiO2 hybrid nanocomposite as a cathode material,	A. Lata, A. Kumar, G. Biswas, N. Chanda, R.K. Arun	2023	2	797–804
1334.	International Journal of Multiphase Flow	An investigation on the impact of two vertically aligned drops on a liquid surface	A. Paul, B. Ray, K. C. Sahu, G. Biswas	2023	168	104588-1 – 104588-12
1335.	ASME J. Heat Mass Transfer- Trans. ASME	Dynamics of an evaporating drop migrating in a Poiseuille flow	A. Dubey, K.C. Sahu, G. Biswas	2023	145	121602-1 – 121602-10
1336.	International Journal of Heat and Mass Transfer	Modeling binary collision of evaporating drops	A. K. Pal, K. C. Sahu, G. Biswas	2024	221	125048-1- 125048-10
1337.	Physics of Fluids	A study on dynamics of shock-accelerated forward-facing triangular bubbles at different Atwood numbers	A. Kundu, M. Thangadurai, G. Biswas	2024	36	016110-1 – 016110-17
1338.	Journal of Drug Delivery Science and Technology	Thiol responsive 6-thioguanine delivery using	N. Jaiswal, N. Mahata,	2024	93	105452-1- 105452-12

		fluorescent gold nanoconjugate for synergistic oxidative stress amplification and chemotherapy: A combinatorial approach in cancer management	G. Biswas, N. Chanda			
1339.	Physics of Fluids	Collision of two drops moving in the same direction	A. K. Pal, K. C. Sahu, S. De, G. Biswas	2024	36	012122-1 – 012122-11
1340.	Journal of Turbulence	Laminar to turbulent transitions of pipe flows by resonances of natural frequencies of components of test sections	F. Durst, G. Biswas, K. Haddad	2024	25	62-82
1341.	Physics of Fluids	Numerical simulation of the interaction between a planar shock wave and a backward-facing triangular bubble containing gases with different	M. Thangadurai, A. Kundu, G. Biswas	2024	36	046119-1 – 046119-18

		Atwood numbers				
1342.	Journal of Materials Chemistry A	A cobalt harnessed phenanthroline and triphenylamine-based conjugated mesoporous polymer designed by a donor-accepted approach for trifunctional electrocatalysis	Sugandha Singh, Manas K Ghorai, and Kamal K. Kar	2023	38	20275-20856
1343.	Journal of Materials Chemistry A	Front cover for A cobalt harnessed phenanthroline and triphenylamine-based conjugated mesoporous polymer designed by a donor-accepted approach for trifunctional electrocatalysis	Sugandha Singh, Manas K Ghorai, and Kamal K. Kar	2023	38	Front cover
1344.	Journal of Materials Chemistry A	Cobalt(II)-bridged triphenylamine and terpyridine-based donor-acceptor coordination polymer as an efficient trifunctional electrocatalyst	Sugandha Singh, Manas K Ghorai, and Kamal K. Kar	2023	11	8003-8012

1345.	Journal of Materials Chemistry A	Outer Cover for Cobalt(II)-bridged triphenylamine and terpyridine-based donor-acceptor coordination polymer as an efficient trifunctional electrocatalyst	Sugandha Singh, Manas K Ghorai, and Kamal K. Kar	2023	11	Outer cover
1346.	Advances in Colloid and Interface Science	A review on multi-synergistic transition metal oxide systems towards arsenic treatment: Near molecular analysis of surface-complexation (synchrotron studies/modeling tools)	Yaswanth K. Penke and Kamal K Kar	2023	314	pp: 102859 (pages:29)
1347.	ACS Applied Nano Materials	Featured article Cobalt nanoparticle-modified pi-conjugated mesoporous polymers for electrocatalysis	Sugandha Singh, Manas K. Ghorai, and Kamal K. Kar	2023	6	Featured article
1348.	Current Materials	Zingiber officinale-assisted graphene	P. Saini, Pankaj	2023	8	303 - 313

	Science	oxide green reduction for excellent photocatalysis	Chamoli, Ravi K. Shukla, Kamal K. Kar and K. K. Raina			
1349.	Journal of Materials Science: Materials in Electronics	Starch/methyl cellulose-based microsupercapacitors for on-chip applications	Ravi Nigam and Kamal K. Kar	2023	34	1927 (19)
1350.	Applied Materials Today	Enhanced performance with ionic and organic redox-couple electrolytes on MTMO anchored CQD nanocomposites and renewable carbon-based asymmetric flexible supercapacitor	Prerna Sinha and Kamal K Kar	2023	32	101806 (17)
1351.	Transactions of the ASME, Journal of Manufacturing Science and Engineering	Development of novel low-cost sustainable abrasive flow finishing media from ground tire rubber and its performance	Irfan Ahmad Ansari, Kamal K Kar, and J. Ramkumar	2023	135	041002 (pp:11)

		evaluation				
1352.	Environmental Science and Pollution Research (ESPR)	Anti-bacterial and arsenic remediation insights in aqueous systems onto heterogeneous metal oxide (Cu <sub>0.52</sub> Al <sub>0.1</sub> Fe <sub>0.4</sub> 7O <sub>4</sub> )/rGO Hybrid: An Approach towards Airborne Microbial Degradation	Yaswanth. K. Penke, Prem A. Murugan, Iram Malik, Saravanan Matheshwaran, Janakarajan Ramkumar, and Kamal. K. Kar	2023	3	811-822
1353.	ACS Applied Nano Materials	Flexible, stretchable, and thin films based on functionalized carbon nanofiber/graphene nanostructures for electromagnetic interference shielding	Jitendra Tahalyani, M. Jaleel Akhtar and Kamal K. Kar	2023	6	8178-8191
1354.	ACS Applied Nano Materials	Cobalt nanoparticle-modified pi-conjugated mesoporous polymers for electrocatalysis	Sugandha Singh, Manas K. Ghorai, and Kamal K. Kar	2023	6	14011-14018

1355.	ACS Applied Nano Materials	Flexible, stretchable, and ultra-light hierarchical carbon-nanotube-decorated carbon fiber structures for microwave absorber application	Jitendra Tahalyani, M. Jaleel Akhtar and Kamal K. Kar	2023	6	11888-11901
1356.	Journal of Manufacturing Processes	Effect of ground tire rubber media's viscoelasticity and flow passage geometry on the abrasive flow finishing of helical gear	Irfan Ahmad Ansari, Kamal K Kar, and J. Ramkumar	2023	101	219-233
1357.	Nanotechnology	Effect of simple cubic-, face-centered cubic-, and body-centered cubic- electrodes on the electric double layer capacitance of supercapacitors	Ravi Nigam, Kamal K. Kar	2023	34	465405 (12)
1358.	Current Science	Real-time hybrid simulation at the pseudo-dynamic testing facility at	Hironmoy Kakoty, Chinmoy Kolay, Shubham	2023	125	685-691



		IIT Kanpur	Raj, and Kamal K. Kar			
1359.	Journal of Materials Science: Materials in Electronics,	Starch/methyl cellulose-based microsupercapacito rs for on-chip applications	Ravi Nigam and Kamal K. Kar	2023	34	1927 (19)
1360.	Sādhanā	Regenerative instabilities in guided metal circular sawing	Sunny Singhania and Mohit Law	2024	49(1)	1-12
1361.	International Journal of Mechatronics and Manufacturing Systems	Rapid online chatter detection in milling using aliased signals	Harsh Singh Rajput and Mohit Law	2024	17(1)	84-95
1362.	Journal of Flow Visualization and Image Processing	Vision-based modal analysis of machine tool systems: progress and prospects	Mohit Law	2024	31(2)	99-129
1363.	Manufacturing Letters	Experimental analysis of chatter in grooving with slender blades	D Jhakar and Mohit Law	2023	38	74-78
1364.	ASME Journal of Nuclear Engineering and Radiation Science	Development and calibration of an indigenous spectroscopic system for	Akanccha, VS Bhadauriya, AK Pandey, P Wahi, N	2023	9(3)	032003 (paper number)

		radiational portal monitor application.	Sinha, P Munshi			
1365.	IEEE Transactions on Automatic Control	Global Reachability of Heterogeneous Multi-Agent Systems under Collaborative Interaction Topology and Unknown Delays	S De, SR Sahoo, P Wahi	2023	68(12)	7629-7643
1366.	Journal of Vibration Engineering & Technologies	Damped chatter resistant boring bar integrated with an absorber working in conjunction with an eddy current damper	A Patel, A Yadav, M Law, B Bhattacharya, P Wahi	2023	11(5)	2013-2024
1367.	IEEE Control Systems Letters	Synchronization for Linear Networked Systems Subject to Input and Communication	S De, SR Sahoo, P Wahi	2023	7	2563-2568

		Delays				
1368.	IEEE Transactions on Circuits and Systems II: Express Brief	Rendezvous under Cyclic Pursuit with Heterogeneous Input and Communication Delays.	S De, SR Sahoo, P Wahi	2024	71(1)	236-240
1369.	Multibody System Dynamics	Influence of gravity on the vibration characteristics of a geometrically nonlinear McPherson-suspension model	VD Dwivedi, P Wahi	2024	Doi:10.1007/s11044-023-09946-0.	1-26
1370.	NDT & E International	Uniformly sampled polar and cylindrical grid approach for 2D,	SK Chaudhary, P Wahi, P Munshi	2024	140	102960

		3D image reconstruction using algebraic algorithm				
1371.	Nonlinear Dynamics	Equipartition of modal energy in an ideal string vibrating in the presence of a boundary obstacle	AK Mandal, P Wahi	2024	12(1)	215-232
1372.	Transactions of ASME Journal of Engineering and Science in Medical Diagnostics and Therapy	Finite Element Analysis of a Temporomandibular Joint Implant	VK Mall, P Wahi, N Sinha	2024	7(1)	011004
1373.	Transactions of ASME Journal of Engineering and Science in Medical Diagnostics and Therapy	Straightness of Central Anatomical Axes of Human Tibia–Fibula System: Role of Fibula and Its Importance in Biomechanics	A Tiwari, P Wahi, SS Gupta, N Sinha	2024	7(3)	031006
1374.	Journal of Fluid Mechanics	Regimes in rotating Rayleigh–Bénard convection over rough boundaries	Vinay Tripathi and Pranav Joshi	2024	982	A15
1375.	Physical Review Letters	Critical Prandtl number for Heat Transfer	Mohammad Anas and Pranav Joshi	2024	132(3)	034001

		Enhancement in Rotating Convection				
1376.	Physical Review E	Bolgiano-Obukhov spectrum and mixing efficiency in stably stratified turbulence	Shadab Alam, Mahendra K. Verma, and Pranav Joshi	2023	107(5)	055106
1377.	Journal of Flow Visualization & Image Processing	Effect of flexible flap length on flow generation by an airfoil pitching in quiescent fluid	THULASI, H. M., MENON, A. B., JAISWARA, P. K. & SHINDE, S. Y	2024	31 (4)	1-13
1378.	Physics of Fluids	In-depth three-component assessment of wind turbine wake using stereo Particle Image Velocimetry (PIV) under low tip speed ratio conditions	SIRAM, O., SHINDE, S. Y., KULKARNI, V. N. & SAHU, N	2023	35	1-17
1379.	Physics of Fluids	Insights into the Transition of Separation Bubbles over a Rough Surface at Varying Angles of Attack	Singh P., Sarkar S., Kumar R. and Katiyar S.	2024	36	1-21

1380.	Physics of Fluids	Features of Laminar Separation Bubble Subjected to Varying Adverse Pressure Gradients	Jain I. and Sarkar S.	2024	36	1-20
1381.	Physics of Fluids	Features of Laminar Separation Bubble Subjected to Varying Adverse Pressure Gradient	Kumar R. and Sarkar S.	2023	35	1-21
1382.	ASME Journal of Turbomachinery	Excitation of a Separated Flow by a Series of Protuberances Near the Leading Edge of a Model Aerofoil	Singh P. and Sarkar S.	2023	145	111001-1 to 111001-12
1383.	International Journal of Thermal Sciences	Numerical Simulation of Two-Phase Flow: Air-Mist Film Cooling Over a Flat Plate	Dwivedi A. and Sarkar S.	2023	184	1-18
1384.	Progress in Nuclear Energy	A set of generic correlations for high-Rayleigh-number thermal convection in inclined rectangular enclosures	Niloy Sen and Umesh Madanan	2023	166	-

1385.	Thermal Science and Engineering Progress	Heat transfer enhancement through pitch ratio optimization of butterfly inserts in minichannel heat sinks	Rahul Pandey and Umesh Madanan	2023	46	-
1386.	International Communications in Heat and Mass Transfer	In Memoriam: Richard J. Goldstein	Umesh Madanan et al.	2023	145	-
1387.	International Journal of Heat and Mass Transfer	In Memoriam: Richard J. Goldstein	Umesh Madanan et al.	2023	209	-
1388.	Computational Thermal Sciences: An International Journal	In Memoriam: Richard J. Goldstein	Umesh Madanan et al.	2023	15	5
1389.	ASME Journal of Heat and Mass Transfer	Effect of finite thermal conductivity bounding walls on Darcy–Bénard convection	Parvez Alam and Umesh Madanan	2024	146	5
1390.	ASME Journal of Heat and Mass Transfer	Tracing the Academic Lineage of Richard J. Goldstein	John Shadid, Umesh Madanan	2024	146	5
1391.	ASME Journal of Heat and Mass Transfer	A Lifetime of Path-Breaking Scholarship That Spans Gas-Turbine	Raj M. Manglik, Sandra K. S. Boetcher,	2024	146	5

		Cooling to Transport Processes and Critical Diagnostic Tools for Convective Heat Transfer and More	Terrence W. Simon, Umesh Madanan			
1392.	Geophysical Journal International	A generalized curvilinear solver for spherical shell Rayleigh-B'enard convection	Anikesh Pal	2024	Gil-S-23-0471	R2
1393.	Proceedings of the Royal Society A	Scattering of surface waves by inhomogeneities in crystalline structures	Sharma BL	2024	480	2286
1394.	International Journal of Engineering Science	Interaction of in-plane waves with a structured penetrable line defect in an elastic lattice	Nieves M.J. and Sharma BL	2024	197	104011
1395.	Inverse Problems	Phase recovery from phaseless scattering data for discrete Schrödinger operators	Novikov R. and Sharma BL	2023	39	12
1396.	Computer Methods in Applied Mechanics and	Computational modeling of	Sharma BL,	2023	417 A	116441



	Engineering	coupled interactions of fluid membranes with embedded filaments	Perotti LE, Dharmavaram S			
1397.	Mathematics and Mechanics of Solids	Generalizing parametrization invariance in the calculus of variations	Dharmavaram S and Sharma BL	2023	29	2
1398.	Physics of Fluids	Effect of a bend on vortex formation and evolution in a three-dimensional stenosed geometry during pulsatile flow	Md. Owais, A. Usmani and K. Muralidhar	2023	35	031906
1399.	Fluid Dynamics Research	Continuous motion of an electrically actuated water droplet over a PDMS-coated Surface	Supriya Upadhyay and K. Muralidhar	2023	55	055501
1400.	Desalination	Influence of a Hydrophobic Membrane on Evaporation Rate of Water Placed in a Top-cooled Circular Cavity	Manish Bhendura, K. Muralidhar, and S. Khandekar	2023	268	117037

1401.	Interfacial Phenomena and Heat Transfer	Effect of thermophysical and dielectric properties of a liquid droplet on continuous motion in an electric field	Supriya Upadhyay and K. Muralidhar	2023	11	77-101
1402.	Heat Transfer (Wiley)	Non-Newtonian blood flow with magnetic nanoparticles in a W-shaped stenosed arterial segment: A numerical study	Pritam Giri, Indranil Saha-Dalal, and K. Muralidhar	2023	52	4962–4992
1403.	International Journal of Thermal Sciences	Effect of Liquid Splattering on Thermal Performance of Jets and Sprays over Plain and Pillared surfaces	G.N. Sahu, K. Muralidhar, and S. Khandekar,	2023	187	108131
1404.	Computational Thermal Sciences	An Improved Correlation of Evaporation Rate of a Water Pool derived using Combined ANN-GA	Manish Bhendura, K. Muralidhar, and S. Khandekar	2023	15	1-19
1405.	Journal of Flow Visualization and Image Processing	Numerical simulation of drop spreading over a	Raghvendra K. Dwivedi and K.	2024	31	1-20

		pillared surface	Muralidhar			
1406.	Heat Transfer Engineering	Improved heat transfer modeling of moist air condensation on a hydrophobic metallic surface	Shubham Jain, Basant Sikarwar, and K. Muralidhar	2023	44	1-19
1407.	Journal of Energy and Environmental Sustainability	A Layout for the Hydrogen Engine	P. A. Lakshminarayanan	2023	Narayanan et al. / Journal of Energy and Environmental Sustainability, 13 & 14 (2023)	53-61
1408.	Langmuir	Generality of Evaporative Crystal Liftoff on Heated Hydrophobic Substrates	Pranjal Agrawal, Virkeshwar Kumar, Samantha McBride, and Susmita Dash	2023	39	7578–7589
1409.	ROBOTICA	End-effector path tracking of a 14 DOF Rover Manipulator	Katiyar, S and Dutta, A		42 (1) ,	pp.265-301

		System in CG-Space framework				
1410.	JOURNAL OF MECHANISMS AND ROBOTICS- TRANSACTIONS OF THE ASME	Energy-Based Footstep Planning of Biped on Uneven Deformable Terrain  Using Nonlinear Inverted Pendulum	Gora, S; Gupta, SS and Dutta, A	Oct 1 2023	15 (5)	
1411.	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C- JOURNAL OF MECHANICAL ENGINEERING SCIENCE	Gait planning and optimization of an 18 DOF quadruped robot with compliant shanks	Singh, S and Dutta, A		238 (6) ,	pp.2294-2307
1412.	JOURNAL OF MECHANISMS AND ROBOTICS- TRANSACTIONS OF THE ASME	Control of Pneumatic Artificial Muscle Actuated Two Degrees-of- Freedom	Maurya, S and Dutta, A	2023		15 (3)

		Robot Using PD- Based Pulse Width Modulation Strategy With Feed-Forward Outer Control Loop				
1413.	IEEE Sensors Journal	A Spectrally Augmented Common Spatial Pattern Approach for Robust Motor Imagery-based Brain-Computer Interface	S Khanna, A Chowdhury, A Dutta, VK Subramanian			
1414.	Journal of Molecular Liquids	Enhancement of TIIF hydrate formation kinetics in the presence of LDH based nanofluid promoter	AA Ansari, R Ravesh, S Chakraborty, PK Panigrahi, MK Das	2024	399	124313 1-12
1415.	ASME Journal of Electrochemical Energy Conversion and Storage	Lattice Boltzmann Simulations of Non- Homogeneous Li-- O2 Battery	TA Mohan, Jithin M., MK Das	2024	21	041005 1-16

		Cathode: The Effect of Spatial and Temporal Porosity Variations				
1416.	Thermal Science and Engineering Progress	Effect of perforation interval design on gas production from hydrate reservoir	PK Pandey, MK Das, PK Panigrahi,	2023	431	101986 1-11
1417.	Chemical Engineering and Technology	C02 Hydrate Formation Kinetics inthe Presence of a Layered Double Hydroxide Nanofluid	AA Ansari, R Raves, S Chakraborty, PK Panigrahi. MK Das	2023	46	1630- 1638
1418.	Physics of Fluids	Analysis of viscoelastic flow past a square cylinder in a channel with sudden contraction	S Dhawan, MK Das, PK Panigrahi,	2023	35	063104 1-24
1419.		Minimizing environmental degradation in fracture toughness of carbon fiber/epoxy composites using carbon nanotubes	PK Agnihotri, S Basu, M Srivastava, A Yesu	2024		

1420.	IEEE Robotics and Automation Letters	How fast can a robotic drummer beat using dielectric elastomer actuators?	S Wakle, TH Lin, S Huang, S Basu, GK Lau	2024		
1421.	Computational Mechanics	Collective compression of VACNT arrays modelled as nominally vertical, mutually interacting beams	A Patel, S Basu	2024		1-18
1422.	Engineering Fracture Mechanics	Minimizing environmental degradation in fracture toughness of carbon fiber/epoxy composites using carbon nanotubes	A Yesu, M Srivastava, PK Agnihotri, S Basu	2024	294,	109734
1423.	IEEE Transactions on Instrumentation and Measurement	Quantification of pore accessibility in mesoporous supercapacitor electrode using cyclic voltammetry	K Chatterjee, PK Agnihotri, S Basu, N Gupta	2023		

1424.	4th International Conference on High Voltage Engineering and Power	Study of EMI Shielding Performance of CNT-filled Epoxy Resin	H Gupta, A Chauhan, PK Agnihotri, S Basu, N Gupta	2023		
1425.	4th International Conference on High Voltage Engineering and Power ...	Computation of Dielectric Constant of Cross-linked Epoxy resin through Molecular Dynamics	P Das, S Basu, N Gupta 2023	2023		
1426.	International Journal of Solids and Structures	Numerical study of the compression of tightly constrained slender rods	A Patel, S Basu	2023	265,	112107
1427.	Computational Materials Science	Molecular dynamic study on modulating the interfacial thermal conductivity of carbon fiber/epoxy interfaces	A Chauhan, PK Agnihotri, S Basu		217	111914



1428.	Physical Review Letters	Critical Prandtl Number for Heat Transfer Enhancement in Rotating Convection	M Anas, P Joshi	2024	132 (3),	034001
1429.	Physical Review	Bolgiano-Obukhov spectrum and mixing efficiency in stably stratified turbulence	S Alam, MK Verma, P Joshi	2024	E 107 (5),	055106
1430.	Machining Science and Technology	Wear mechanisms and cutting performance of coated carbides in milling LPBF IN718 alloy under hybrid cryogenic conditions	SK Mishra, G Gómez Escudero, H González Barrio, A Calleja-Ochoa, ...	2024		
1431.	Materials Letters	Near-circular EDM hole drilling for deterministic cellular lattice structures of LPBF IN718 ...	M Singh, S Gusain, SK Mishra, J Ramkumar, GG Escudero, HG Barrio, ...	2023	350	134886

1432.	Science Journal (Special Issue 17th CIRP Sponsored Conference on High	Analysis of thin walled components with internal microstructure design manufactured by LPBF	M Martinez-Aguirre, SK Mishra, G Gómez Escudero, I Holgado,MM	2023		
1433.	Journal of Engineering and Science in Medical Diagnostics and Therapy	Straightness of Central Anatomical Axes of Human Tibia–Fibula System: Role of Fibula and Its Importance in Biomechanics	A Tiwari, P Wahi, SS Gupta, N Sinha	2024	7 (3)	
1434.	Physical Review	Continuum contact model for friction between graphene sheets that accounts for surface anisotropy and curvature	A Mokhalingam, SS Gupta, RA Sauer	2024	B 109 (3),	035435
1435.	Journal of Mechanisms and Robotics	Energy-Based Footstep Planning of Biped on	S Gora, SS Gupta, A Dutta	2023	15 (5)	54502

		Uneven Deformable Terrain Using Nonlinear Inverted Pendulum				
1436.	Modelling and Simulation in Materials Science and Engineering	Mechanical response of van der Waals and charge coupled carbon nanotubes	A Mokhalinga m, IS Dalal, SS Gupta	2023		
1437.	Proceedings of the 2023 6th International Conference on Advances in Robotics	Gait Generation of 6-DOF Biped Robot on Inclined Deformable Terrain Using Nonlinear Inverted Pendulum	S Gora, SS Gupta, A Dutta	2023		
1438.	arXiv preprint arXiv	A continuum contact model for anisotropic friction between graphene sheets accounting for surface anisotropy and curvature	A Mokhalinga m, SS Gupta, RA Sauer	2023	2305.111 21	
1439.	Journal of Sound and	Modeling of geometrical	L Hoskoti, SS Gupta,	2023	548	117526

	Vibration	stiffening in a rotating blade—a review	MM Sucheendran			
1440.	Journal of Flow Visualization and Image Processing	CHARACTERIZATION OF SEPARATED SHEAR LAYER OF ELEVATED JET IN CROSSFLOW AT LOW-VELOCITY RATIO	J Gupta, M Singh, AK Saha	2024	31	
1441.	Physical Review Fluids	Effect of surface tension gradients on coalescence dynamics of two unequal-sized drops	S Singh, AK Saha	2023	8 (5)	053604
1442.	Journal of Thermal Science and Engineering Applications	Numerical study of heat transfer during oblique impact of a cold drop on a heated liquid film	S Singh, AK Saha	2023	15 (5)	050907

1443.	Experimental Heat Transfer	Investigation of the transition of natural convective flow of water in a differentially heated cubic enclosure	OS Bharti, AK Saha, MK Das	2023	36 (3),	376-403
1444.	Physics of Fluids	Effect of cube spacings on the three-dimensional flow structure over an array of wall-mounted cube	BA Khan, AK Saha	2023	35 (5),	055111
1445.	Physics of Fluids	Characterization of the turbulent field behavior of an elevated jet-in crossflow investigated using direct numerical simulation	S Behera, BA Khan, AK Saha	2023	35 (1)	
1446.	Journal of Flow Visualization and Image Processing	PREFACE: VISUALIZATION OF COMPLEX FLOW STRUCTURES IN JETS AND	AK Saha, K Muralidhar	2023	30 (1)	

		WAKES				
1447.	Journal of Computational and Nonlinear Dynamics	Open-loop centering of a point mass on a horizontally vibrating frictional table	DV Manthena, CP Vyasarayani, A Chatterjee	2024	19 (3)	
1448.	arXiv preprint	Stable compensators in parallel to stabilize arbitrary proper rational SISO plants arXiv:	AH Faruqi, A Chatterjee	2023	2312.09819	
1449.	arXiv preprint	Strong stabilization in classical control via adjustment of fractional powers into integers	AH Faruqi, A Chatterjee	2023	2312.01920	
1450.	arXiv preprint	Stable compensators in parallel to stabilize arbitrary proper rational SISO plants	AH Faruqi, A Chatterjee	2023	2312.09819	

1451.	Nonlinear Dynamics	Preface: special issue NODYCON 2023, Third International Nonlinear Dynamics Conference, Rome, 18–22 June, 2023	M Cartmell, A Chatterjee, W Lacarbonara, JH Park, JJ Thomsen	2023	111 (24),	22075-22077
1452.	arXiv e-prints	Strong stabilization in classical control via adjustment of fractional powers into integers	A Hannan Faruqi, A Chatterjee	2023	arXiv: 2312.01920	
1453.	Journal of Engineering Mathematics	Short time angular impulse response of Rayleigh beams	B Goswami, KR Jayaprakash, A Chatterjee	2023	143 (1), 6	
1454.	Mechanics Based Design of Structures and Machines	Design charts for hydraulic twister based aircraft arrester gear	DD Tandel, CS Upadhyay, A Chatterjee	2023	, 1-23	
1455.	arXiv preprint arXiv	Small in-plane oscillations of a	B Goswami, I Chakraborty,	2023	2310.01308	

		slack catenary using assumed modes :2310.01308	A Chatterjee			
1456.	Nonlinear Dynamics	Quadrupole ion trap with dipolar DC excitation: motivation, nonlinear dynamics, and simple formulas  DD Tandel, A Chatterjee, AK Mohanty	DD Tandel, A Chatterjee, AK Mohanty	2023	111 (17),	15837-15852
1457.	Journal of Applied Physics	Theory and inverse design of microperforated panels comprising arbitrary axial pore profiles for broadband low-frequency sound absorption	OV Vigneswar, C Chandraprakash	2024	135 (13)	
1458.	Journal of Applied Polymer Science	Binder-free, non-carcinogenic surfactant-based cellulose-rich bagasse foams as	K Bikumalla, T Bhuvana, A Tiwari, C Chandraprak	2024	141 (11),	e55096



		acoustic panels	ash			
1459.	Review of Scientific Instruments	Estimation of planar angles from non-orthogonal imaging	A Kumar, C Chandraprak ash	2024	95 (1)	
1460.	Applied Physics	Alumina–copper woodpile-kind locally resonant phononic crystal	S Beniwal, C Chandraprak ash	2023	A 129 (12),	844
1461.	International Journal of Advances in Engineering Sciences and Applied	Fabrication and bandgaps of microscale metallic phononic crystals ...	V Sharma, C Chandraprak ash	2023		
1462.	Industrial Crops and Products	Green fabrication of cellulose-rich agricultural residues for scalable and biodegradable acoustic boards	T Bhuvana, A Tiwari, C Chandraprak ash	2023	204, 117404	
1463.	IEEE Transactions on Instrumentation and Measurement	Computer vision-based on-site estimation of	A Kumar, C Chandraprak ash	2023		

		contact angle from 3D reconstruction of droplets				
1464.	ACS Food Science & Technology	Burst and Physicochemical Characteristics of Glycerol-Added Chitosan Films for Food Packaging	BM Bharti, T Bhuvana, C Chandraprakash	2023	3 (4),	772-780
1465.	Desalination	Scaling up of nanophotonics-enabled solar direct-contact membrane desalination system under ambient condition and sun tracking: Challenges, remedies and performance report	PK Shakya, J Bhattacharya	2024	576,	117343
1466.		Precise and fast spillage estimation for a central receiver tower based solar plant	M Raj, J Bhattacharya	2023	265,	112103

1467.	Journal of Energy Storage	Predicting temperature distribution of passively balanced battery module under realistic driving conditions through coupled equivalent circuit method and lumped heat ...	R Baveja, J Bhattacharya, S Panchal, R Fraser, M Fowler	2023	70,	107967
1468.	Solar Energy	Flux augmentation and temperature enhancement through secondary parabolic concentrator and air recirculation for a central receiver tower system	MK Sharma, M Raj, J Bhattacharya	2023	263,	111916
1469.	Applied Thermal Engineering	Effects of geometric and optical irregularities on the flux distribution on an absorber tube of a parabolic trough	P Singh, MK Sharma, M Singh, J Bhattacharya	2023	232	120937

		collector				
1470.	Tribology International	Tribological and mechanical characterisation of carbon-nanostructures based PEEK nanocomposites under extreme conditions for advanced bearings: A molecular dynamics study	QU Ain, MF Wani, R Sehgal, MK Singh	2024		109702
1471.	Computational Materials Science	Mechanical and viscoelastic characterization of Al <sub>2</sub> O <sub>3</sub> based polymer nanocomposites: An experimental and molecular dynamics simulation approach	QU Ain, MF Wani, R Sehgal, MK Singh	2024	239	112955
1472.	Proceedings of the Institution of Mechanical Engineers	A review on tribological behavior of nickel-	D Dubey, R Mukherjee, MK Singh	2024		

		based Inconel superalloy				
1473.	Langmuir	Tribological and Rheological Study of Thixotropic Gels of 2D Nanoparticles	A Kumar, V Kumar, YM Joshi, MK Singh	2024		
1474.	Tribology International	Insights into nanomechanical and nanotribological characterization of cross-linked polymer nanocomposites via molecular dynamics simulation	QU Ain, MF Wani, R Sehgal, MK Singh	2024	191	109174
1475.	Langmuir	Thermal conductivity of bottle-brush polymers	MK Maurya, T Laschuetza, MK Singh, D Mukherji	2024		
1476.	Proceedings of the Institution of Mechanical	Dry sliding wear behavior of hard-	A Kumar, H Rachwani, M	2024		

	Engineers	chrome and zinc-phosphate conversion coatings on steel substrates	Kumar Singh			
1477.	International Journal of Advances in Engineering Sciences and Applied	Computational indentation in weakly cross-linked polymer networks ...	MK Maurya, MK Singh			
1478.	Advanced Science	Free Standing Dry and Stable Nanoporous Polymer Films Made through Mechanical Deformation ...	HP Hsu, MK Singh, Y Cang, H Thérien-Aubin, M Mezger, R Berger,		10 (18),	2207472
1479.	Manufacturing Technology	Learning machining stability using a bayesian model	A Pujari, HS Rajput, M Law, MK Singh		Today 22 (2), 10-16	
1480.	Manufacturing Technology	Learning machining stability diagrams from data	NA Shanavas, M Law, MK		Today 22 (2), 29-	

		using neural networks	Singh		41	
1481.	Langmuir	Can Aluminum Cations Promote Nucleation for THF Hydrate Growth?	R Ravesh, AA Ansari, PK Panigrahi, MK Das	2024		
1482.	Applied Energy	A hybrid battery thermal management system using ionic wind and phase change material	R Kumar, PK Panigrahi	2024	359,	122676
1483.	Sādhanā	Multi-needle-ring type ionic wind generator for thermal management	D Shukla, A Singh, PK Panigrahi	2024	49 (1), 1-10	
1484.	Journal of Molecular Liquids	Enhancement of THF hydrate formation kinetics in the presence of LDH based nanofluid promoter	AA Ansari, R Ravesh, S Chakraborty, PK Panigrahi, MK Das	2024	124313	

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1485.	Applied Thermal Engineering	A review on coolant selection for thermal management of electronics and implementation of multiple-criteria decision-making approach	S Chakraborty, D Shukla, PK Panigrahi	2024	122807	
1486.	Proceedings of the 27th National and 5th International ISHMT-ASTFE Heat and Mass Transfer	A novel corona wind-based battery thermal management system ...	R Kumar, PK Panigrahi	2024		
1487.	ASME Journal of Heat and Mass Transfer	Vapor Cloud Behavior of Heavier-Than-Air Hydrocarbon Liquid Evaporating From a Microliter Volume Heated Well Cavity	D Shukla, PK Panigrahi	2024	146 (1),	013001
1488.	Laser Science	3D Printed Integrable Optofluidic Dye	A Ghar, PK Panigrahi	2023	JW4A. 26	



		Laser				
1489.	Science and Engineering Progress	Effect of perforation interval design on gas production from hydrate reservoir	PK Pandey, MK Das, PK Panigrahi Thermal	2023	43,	101986
1490.	Chemical Engineering & Technology	CO <sub>2</sub> Hydrate Formation Kinetics in the Presence of a Layered Double Hydroxide Nanofluid	AA Ansari, R Raves, S Chakraborty, PK Panigrahi, MK Das	2023	46 (8),	1630-1638
1491.	Physics of Fluids	Analysis of viscoelastic flow past a square cylinder in a channel with sudden contraction	S Dhawan, MK Das, PK Panigrahi	2023	35 (6)	
1492.	CRC Press	Design and Analysis of Thermal Systems	MK Das, PK Panigrahi	2023		
1493.	arXiv preprint arXiv	Electro optic effect measurements for	A Ghar, U Das, PK	2023	2303.115 69	

		waveguide inscribed in X-cut LiNbO3 substrate using femtosecond laser direct writing process	Panigrahi			
1494.	arXiv preprint arXiv	Femtosecond Laser Engraved 2D Tunable Optofluidic Liquid Core/Air Cladding Channel Waveguides on PDMS	A Ghar, PK Panigrahi	2023	2301.11254	
1495.	ASTFE Digital Library	EXPERIMENTAL INVESTIGATION OF CO2 HYDRATE FORMATION IN THE PRESENCE OF ZN-AL LDH NANOFUID	AA Ansari, R Ravesh, PK Panigrahi, MK Das	2023		
1496.	Journal of Engineering and Science in Medical Diagnostics and Therapy	Straightness of Central Anatomical Axes of Human Tibia–Fibula System: Role of	A Tiwari, P Wahi, SS Gupta, N Sinha	2024	7 (3)	

		Fibula and Its Importance in Biomechanics				
1497.	Physical Review	Continuum contact model for friction between graphene sheets that accounts for surface anisotropy and curvature	A Mokhalingam, SS Gupta, RA Sauer	2024	B 109 (3),	035435
1498.	Journal of Mechanisms and Robotics	Energy-Based Footstep Planning of Biped on Uneven Deformable Terrain Using Nonlinear Inverted Pendulum	S Gora, SS Gupta, A Dutta	2023	15 (5),	054502
1499.	Modelling and Simulation in Materials Science and Engineering	Mechanical response of van der Waals and charge coupled carbon nanotubes	A Mokhalingam, IS Dalal, SS Gupta	2023		
1500.	Proceedings of the 2023 6th International	Gait Generation of 6-DOF Biped	S Gora, SS Gupta, A	2023		

	Conference on Advances in Robotics	Robot on Inclined Deformable Terrain Using Nonlinear Inverted Pendulum ...	Dutta			
1501.	arXiv preprint arXiv	A continuum contact model for anisotropic friction between graphene sheets accounting for surface anisotropy and curvature	A Mokhalingam, SS Gupta, RA Sauer	2023	2305.11121	
1502.	Journal of Sound and Vibration	Modeling of geometrical stiffening in a rotating blade—a review	L Hoskoti, SS Gupta, MM Suchendran	2023	548	117526
1503.	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	K Manoharan, S Bhattacharya	2024	51	236-251

		cylindrical double camshaft followers				
1504.	Journal of Micromanufacturing	Evolution of 3d printing technology in fabrication of microfluidic devices and biological applications: a comprehensive review	R Saha, M Sarkar, SS Choudhury, H Kumar, G Bhatt, S Bhattacharya	2024	7 (1)	7 (1), 110-140
1505.	npj Clean Water	Combined advanced oxidation dye-wastewater treatment plant: design and development with data-driven predictive performance modeling	PS Chauhan, K Singh, A Choudhary, U Brighu, SK Singh, S Bhattacharya	2024	7 (1)	15
1506.	Scientific Reports	Inkjet-printed flexible planar Zn-MnO <sub>2</sub> battery on paper substrate	S Sarma Choudhury, N Katiyar, R Saha, S Bhattacharya	2024	14 (1)	1597

1507.	Materials and Manufacturing Processes	Evaluating electrochemical micromachining capabilities for industrial applications: A review	J Singh, R Kant, A Nimesh, N Katiyar, S Bhattacharya	2024	39 (1)	1-42
1508.	CRC Press	Impedance Spectroscopy and its Application in Biological Detection	G Bhatt, M Bhatt, S Bhattacharya	2023		
1509.	Impedance Spectroscopy and its Application in Biological Detection	A historical perspective on impedance spectroscopy and its application in biological detection	G Bhatt, M Bhatt, S Bhattacharya	2023	3-7	
1510.	Impedance Spectroscopy and its Application in Biological Detection	Basic principles of impedance spectroscopy	G Bhatt, G Singh, S Bhattacharya	2023	9-36	
1511.	Impedance Spectroscopy and its Application in Biological Detection	Integrating microfluidics and sensing for capability	M Rashiku, M Pandey, S Bhattacharya	2023	37-58	

		enhancement				
1512.	Journal of the Knowledge Economy	Rural Employment Through Product Development: Entrepreneurial Framework for Grassroot Level Innovations	E Sadasivan, K Manoharan, M Das, S Bhattacharya	2023	14 (4),	4807-4827
1513.	Journal of Business Research	Pricing under uncertainty: Forward and option pricing in sports markets	P Sainam, S Balasubramanian, S Bhattacharya, LL Ong	2023	167,	114151
1514.	2023 IEEE SENSORS	Development of a Paper based Glutathione Detection for Point of Care Low Resource Settings	A Saha, S Maurya, S Bhattacharya	2023	01-04	
1515.	2023 IEEE SENSORS	Automated Line Detection on Lateral Flow Assays: A Paradigm Shift in Rapid Diagnostic Testing	MR BC, K Manoharan, S Gangopadhyay, S Bhattacharya	2023	1-4	

1516.	The Journal of the Acoustical Society of America	Design Of aesthetic acoustic metamaterials window panel based on Sierpiński triangle for sound-silencing with free airflow	SK Singh, S Bhattacharya	2023	154 (4_suppl ement)	A155-A155
1517.	Environmental Engineering Science	Photocatalytic Performance of Boron-Doped TiO <sub>2</sub> for Treatment of Rhodamine-B Dye and Industrial Wastewater Under Ultraviolet Irradiation	S Tatiya, M Pandey, S Gupta, S Bhattacharya	2023	40 (10),	438-448
1518.	ACS omega	Effect of the Standardized ZnO/ZnO-GO Filter Element Substrate driven Advanced Oxidation Process on Textile Industry Effluent Stream: Detailed Analysis of Photocatalytic ...	K Singh, S Maurya, S Gupta, N Ranjan, G Ramanathan, S Bhattacharya	2023	8 (31),	28615-28627



1519.	IEEE Sensors Letters	Impedance SpectroscopyBased Detection of Viral RNA from Clinical Samples	R Saha, SN Singh, J Samal, E Gupta, S Bhattacharya	2023		
1520.	US Patent	Method for enhanced bonding of thermoplastic composites	M Sahu, O Prakash, S Bhattacharya, P Sundriyal	2023	11,697,719	
1521.	Journal of Clinical Virology Plus	Performance evaluation of a rapid dengue NS1 antigen lateral flow immunoassay test with reference to dengue NS1 antigen-capture ELISA	M Rashiku, K Manoharan, N Rani, J Samal, E Gupta, S Bhattacharya	2023	3 (2)	100144
1522.	MEMS Applications in Electronics and Engineering,	Introduction to MEMS Applications in Electronics and Engineering	A Basu, AK Basu, S Ghosh, S Bhattacharya	2023	1-1-1-4	
1523.	INTER-NOISE and NOISE-CON Congress	Flat Fresnel-spiral acoustic	S Bhattacharya	2023	265 (7),	408-416

	and Conference Proceedings	metamaterials composed of several arms ventilated metamaterials for simultaneous broadband sound absorption and air circulation				
1524.	Singapore Management University, Centre for Management Practice	Riding the decarbonisation wave: BHP and its LNG dual-fuelled vessels	S BHATTACHARYA, F JOSEPH, M RAO-KACHROO	2023	10 (3)	32
1525.	Polymer-Based Nanoscale Materials for Surface Coatings	Life cycle assessment of nanoscale polymer-based coatings	K Manoharan, M Pandey, S Bhattacharya	2023		613-631
1526.	MEMS Applications in Electronics and Engineering	Suparno Bhattacharyya and Arkadeep Kumar	AB Basu, S Ghosh, S Bhattacharya	2023		
1527.	MEMS Applications in Electronics and Engineering	8 EMERGING TRENDS IN MEMS/NEMS	AK Basu, A Basu, S Ghosh, S	2023	71	

		BASED TECHNOLOGIES FOR GAS SENSING APPLICATIONS	Bhattacharya			
1528.	Combustion and Flame	<u>MMC-LES of spray combustion: Analysis of mixing timescales and flame structure, ,</u>	Eshan Sharma, Santanu De	2024	251	112708
1529.	Physics of Fluids	Collision of two drops moving in the same direction,	Ashwani Kumar Pal, Kirti Chandra Sahu, Santanu De, Gautam Biswas	2024	36	012122
<b>Department of Physics</b>						
1530.	Physical Review B	Symmetry-enriched criticality in a coupled spin ladder	Suman Mondal, Adhip Agarwala, Tapan Mishra, Abhishodh Prakash	2023	108	245135
1531.	Physical Review B	Percolation transition in a	Saikat Mondal,	2023	22	L220201

		topological phase	Subrata Pachhal, Adhip Agarwala			
1532.	Physical Review B	Correlation-driven nontrivial phases in single-bilayer kagome intermetallics	Aabhaas Vineet Mallik, Adhip Agarwala, Tanusri Saha-Dasgupta	2023	108	205125
1533.	Physical Review B	Anyon dynamics in field-driven phases of the anisotropic Kitaev model	Shi Feng, Adhip Agarwala, Subhro Bhattacharjee, Nandini Trivedi	2023	108	035149
1534.	Resonance	Exploring Ideas in Topological Quantum Phenomena: A Journey Through the SSH Model.	Anantha Hegde, Adarsh Kumar, Adhip Agarwala, Bhaskaran Muralidharan	2023	28	371-388
1535.	Physical Review Research	Dimensional reduction of Kitaev spin liquid at quantum criticality	Shi Feng, Adhip Agarwala, Nandini Trivedi	2024	6	013298

1536.	Journal of Electron Spectroscopy and Related Phenomena	L-MM Auger electron emission from chlorinated organic molecules under proton impact: Angular distribution and total cross section measurement	Rohit Tyagi; Abhijeet Bhogale; Sandeep Bari; L.C. Tribedi; A.H. Kelkar	2023	269	147407 (1-6)
1537.	Journal of Alloys and Compounds	Strain induced structural changes and magnetic ordering in thin MoS <sub>2</sub> flakes as a consequence of 1.5 MeV proton ion irradiation	Ram Kumar; Aditya H. Kelkar; Rahul Singhal; Vasant G. Sathe; Ram Janay Choudhary; Neeraj Shukla	2023	951	169882 (1-8)
1538.	Atoms	Fragmentation Dynamics of CO <sub>2</sub> <sup>q+</sup> (q = 2, 3) in Collisions with 1 MeV Proton	Avijit Duley; Aditya H. Kelkar	2023	11	75 (1-16)
1539.	Physical Review Applied	Single-Wall-Carbon-Nanotube–VSe <sub>2</sub> Nanohybrid for Ultrafast Visible-To-Near-	Vinod Kumar, Dipendranath Mandal, KA Sree Raj,	2023	19	044081

		Infrared Third-Order Nonlinear Optical Limiters	Brahmananda Chakraborty, Amit Agarwal, Chandra S Rout, KV Adarsh			
1540.	IEEE Transactions on Electron Devices	Di-Metal Chalcogenides: A New Family of Promising 2-D Semiconductors for High-Performance Transistors	Ateeb Naseer, Keshari Nandan, Amit Agarwal, Somnath Bhowmick, Yogesh S Chauhan	2023	70	2445-2452
1541.	Physical Review B	Intrinsic nonreciprocal bulk plasmons in noncentrosymmetric magnetic systems	Debasis Dutta, Atasi Chakraborty, Amit Agarwal	2023	107	165404
1542.	Physical Review B	Quantum kinetic theory of nonlinear optical currents: Finite Fermi surface and Fermi sea contributions	Pankaj Bhalla, Kamal Das, Amit Agarwal, Dimitrie Culcer	2023	107	165131

1543.	Physical Review B	Quantum kinetic theory of nonlinear thermal current	Harsh Varshney, Kamal Das, Pankaj Bhalla, Amit Agarwal	2023	107	235419
1544.	Physical Review Applied	Designing Power-Efficient Transistors Using Narrow-Bandwidth Materials from the MA <sub>2</sub> Z <sub>4</sub> (M=Mo, Cr, Zr, Ti, Hf; A=Si, Ge; Z=N, P, As) Monolayer Series	Keshari Nandan, Somnath Bhowmick, Yogesh S Chauhan, Amit Agarwal	2023	19	064058
1545.	Physical Review B	Chiral anomalies in three-dimensional spin-orbit coupled metals: Electrical, thermal, and gravitational anomalies	Sunit Das, Kamal Das, Amit Agarwal	2023	108	045405
1546.	Nano Letters	Observation of the Time-Reversal Symmetric Hall Effect in Graphene–WSe <sub>2</sub> Heterostructures at Room Temperature	Priya Tiwari, Divya Sahani, Atasi Chakraborty, Kamal Das, Kenji Watanabe, Takashi Taniguchi,	2023	23	6792-6798

			Amit Agarwal, Aveek Bid			
1547.	2D Materials	Room temperature electron–hole liquid phase in monolayer MoSi <sub>2</sub> Z <sub>4</sub> (Z= pinctogen)	Pushpendra Yadav, KV Adarsh, Amit Agarwal	2023	10	045007
1548.	Physical Review Applied	Room-Temperature Electron-Hole Condensation in Direct-Band-Gap Semiconductor Nanocrystals	Ajay K Poonia, Pushpendra Yadav, Barnali Mondal, Dipendranath Mandal, Pravrati Taank, Megha Shrivastava, Angshuman Nag, Amit Agarwal, KV Adarsh	2023	20	L021002
1549.	IEEE Transactions on Electron Devices	Performance Evaluation of	Ateeb Naseer,	2023		



		Monolayer ZrS Transistors for Next-Generation Computing	Keshari Nandan, Amit Agarwal, Somnath Bhowmick, Yogesh Singh Chauhan			
1550.	Desalination	Plasmonic nanofillers-enabled solar membrane crystallization for mineral recovery	Sergio Santoro, Marco Aquino, Carlo Rizza, Anna Cupolillo, Danil W Boukhvalov, Gianluca D'Olimpio, Shir Abramovich, Amit Agarwal, Maya Bar Sadan, Antonio Politano, Efrem Curcios	2023	563	116730
1551.	The Journal of Physical Chemistry C	Versatility of the SiH–CdCl <sub>2</sub>	Achintya Priydarshi,	2023	127	21279-21288

		Heterostructure: Piezoelectricity, Photocatalysis, and Transistor Applications	Abhinav Arora, Yogesh Singh Chauhan, Amit Agarwal, Somnath Bhowmick			
1552.	Frontiers in Electronics	Two-dimensional semi-conductors based field-effect transistors: review of major milestones and challenges	Keshari Nandan, Amit Agarwal, Somnath Bhowmick, Yogesh S Chauhan	2023	4	1277927
1553.	Physical Review B	Intrinsic nonlinear conductivities induced by the quantum metric	Kamal Das, Shibalik Lahiri, Rhonald Burgos Atencia, Dimitrie Culcer, Amit Agarwal	2023	108	L201405
1554.	Advanced Materials Interfaces	Insights into the Stability and Surface Termination of	Gianluca D'Olimpio, Yanxue Zhang,	2024		2300810

		Topological Semimetal NbAs <sub>2</sub>	Marcin Rosmus, Silvia Nappini, Atasi Chakraborty, Natalia Olszowska, Luca Ottaviano, Raman Sankar, Amit Agarwal, Federica Bondino, Junfeng Gao, Antonio Politano			
1555.	Physical Review Letters	Nonlinear valley Hall effect	Kamal Das, Koushik Ghorai, Dimitrie Culcer, Amit Agarwal	2024	132	096302
1556.	Physical Review Applied	Postselection-free controlled generation of a high-dimensional orbital-angular- momentum entangled state	Suman Karan, Radhika Prasad, Anand K Jha	2023	20	054027

1557.	Phys. Rev. B	Blocking transition of interface traps in MoS <sub>2</sub> /SiO <sub>2</sub> field-effect transistors	Santu Prasad Jana, Suraina Gupta, and Anjan K. Gupta	2023	108	195411
1558.	JHEP 08	Multipoint lightcone bootstrap from differential equations	Apratim Kaviraj (DESY), Jeremy A. Mann (DESY and King's Coll. London, Dept. Math), Lorenzo Quintavalle et.al.	2023	011	1-88
1559.	Phys.Rev. D	Polyakov blocks for the 1D conformal field theory mixed-correlator bootstrap	Kausik Ghosh (Ecole Normale Supérieure and LPENS, Paris), Apratim Kaviraj (DESY), Miguel F. Paulos (Ecole Normale Supérieure and LPENS, Paris)	2024	109	L061703

1560.	Physical Review B	Intrinsic nonlinear thermal Hall transport of magnons: A quantum kinetic theory approach	Harsh Varshney, Rohit Mukherjee, Arijit Kundu, Amit Agarwal	2023	108	165412
1561.	Physical Review B	Intrinsic nonlinear thermal Hall transport of magnons: A quantum kinetic theory approach	Harsh Varshney, Rohit Mukherjee, Arijit Kundu, Amit Agarwals	2023	108	165412
1562.	Physical Review B	Operator correlations in a quenched non-Hermitian Luttinger liquid	Ashutosh Dubey, Sourav Biswas, Arijit Kundu	2023	108	085433
1563.	Physical Review B	Non-linear magnon transport in a bilayer van der Waals antiferromagnets	Rohit Mukherjee, Sonu Verma, Arijit Kundu	2023	107	245426
1564.	Physical Review B	Schwinger-boson mean-field study of the spin-1/2	Rohit Mukherjee, Ritajit	2023	107	155122

		J1–J2–J $\chi$ model in the honeycomb lattice: Thermal Hall signature	Kundu, Avinash Singh, Arijit Kundu			
1565.	SciPost Physics	Horizon strings as 3d black hole microstates	Arjun Bagchi, Daniel Grumiller, Mohammad Mehdi Sheikh-Jabbari	2023	15	210
1566.	Journal of High Energy Physics	BMS modular covariance and structure constants	Arjun Bagchi, Saikat Mondal, Sanchari Pal, Max Riegler	2023	2023	1-26
1567.	Physical Review Letters	Carrollian origins of Bjorken flow	Arjun Bagchi, Kedar S Kolekar, Ashish Shukla	2023	130	241601
1568.	Physical Review D	BMS field theories with u(1) symmetry	Arjun Bagchi, Ritankar Chatterjee, Rishabh Kaushik, Sanchari Pal,	2023	107	106019

			Max Riegler, Debmalya Sarkar			
1569.	Journal of High Energy Physics	AdS Witten diagrams to Carrollian correlators	Arjun Bagchi, Prateksh Dhivakar, Sudipta Dutta	2023	2023	1-42
1570.	Journal of High Energy Physics	Non-Lorentzian Kač-Moody algebras	Arjun Bagchi, Ritankar Chatterjee, Rishabh Kaushik, Amartya Saha, Debmalya Sarkar	2023	2023	1-52
1571.	Physical Review Letters	Carrollian origins of Bjorken flow	Arjun Bagchi, Kedar S Kolekar, Ashish Shukla	2023	130	241601
1572.	Physical Review D	BMS field theories with $u(1)$ symmetry	Arjun Bagchi, Ritankar Chatterjee, Rishabh Kaushik, Sanchari Pal,	2023	107	106019

			Max Riegler, Debmalya Sarkar			
1573.	Journal of High Energy Physics	AdS Witten diagrams to Carrollian correlators	Arjun Bagchi, Prateksh Dhivakar, Sudipta Dutta	2023	2023	1-42
1574.	Journal of High Energy Physics	Non-Lorentzian Kač-Moody algebras	Arjun Bagchi, Ritankar Chatterjee, Rishabh Kaushik, Amartya Saha, Debmalya Sarkar	2023	2023	1-52
1575.	Physical Review D	Heavy-ion collisions, Gubser flow, and Carroll hydrodynamics	Arjun Bagchi, Kedar S Kolekar, Tani ya Mandal, Ashish Shukla	2024	109	056004
1576.	Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series	Women in Optics and Photonics in India 2022	Anita Mahadevan- Jansen, Asima Pradhan,	2023	12638	



			Sujatha Narayanan Unni			
1577.	Journal of Fluorescence	In-vivo testing of oral mucosal lesions with an in-house developed portable imaging device and comparison with spectroscopy results	Amar Nath Sah, Pavan Kumar, Asima Pradhan	2023	33	1375-1383
1578.	Applied Optics	Smartphone-based fluorescence spectroscopic device for cervical precancer diagnosis: a random forest classification of in vitro data	Shivam Shukla, Chaitanya Vishwakarma, Amar Nath Sah, Shikha Ahirwar, Kiran Pandey, Asima Pradhan	2023	62	6826-6834
1579.	The Journal of Obstetrics and Gynecology of India	Comparison of In Vivo Study of Co-Polarized and Cross-Polarized Fluorescence Spectroscopy to Co-Minus Cross-	Kiran Pandey, Asima Pradhan, Ajay Bhagoliwal, Asha	2023		1-8

		Polarized Fluorescence Spectroscopy to Diagnose Precancerous	Agarwal, Shweta Mani			
1580.	Lasers in Medical Science	Detection of oral mucosal lesions by the fluorescence spectroscopy and classification of cancerous stages by support vector machine	Pavan Kumar, Shashikant Rathod, Asima Pradhan	2024	39	42
1581.	International Journal of Data Science and Analytics	Supremacy of attention-based transformer in oral cancer classification using histopathology images	Bhaswati Singha Deo, Mayukha Pal, Prasanta K Panigrahi, Asima Pradhan	2024		1-19
1582.	International Journal of Data Science and Analytics	An ensemble deep learning model with empirical wavelet transform feature for oral cancer histopathological image classification	Bhaswati Singha Deo, Mayukha Pal, Prasanta K Panigrahi, Asima Pradhan	2024		1-18

1583.	International Journal of Imaging Systems and Technology	CerviFormer: A pap smear-based cervical cancer classification method using cross-attention and latent transformer	Bhaswati Singha Deo, Mayukha Pal, Prasanta K Panigrahi, Asima Pradhan	2024	34	e23043
1584.	Journal of Biophotonics	Cervical pre-cancer classification using entropic features and CNN: In vivo validation with a handheld fluorescence probe	Bhaswati Singha Deo, Amar Nath Sah, Shivam Shukla, Kiran Pandey, Sweta Singh, Mayukha Pal, Prasanta K Panigrahi, Asima Pradhan	2024	17	e202300363
1585.	Journal of Biophotonics	A smartphone-based standalone fluorescence spectroscopy tool for cervical precancer diagnosis in clinical conditions	Shivam Shukla, Bhaswati Singha Deo, Chaitanya Vishwakarma, Subrata Mishra, Shikha Ahirwar, Amar Nath Sah, Kiran	2024		e202300468

			Pandey, Sweta Singh, SN Prasad, Ashok Kumar Padhi, Mayukha Pal, Prasanta K Panigrahi, Asima Pradhan			
1586.	Condens. Matter	Spin-Orbit Coupling and Magnetism in Sr <sub>2</sub> CrO <sub>4</sub>	Shubhajyoti Mohapatra, Dheeraj Kumar Singh, and Avinash Singh	2023	35	435601
1587.	Phys. Rev. B	Schwinger-Boson Mean-Field Study of the Spin-1/2 J <sub>1</sub> - J <sub>2</sub> -J <sub>χ</sub> Model in the Honeycomb Lattice - Thermal Hall Signature	Rohit Mukherjee, Ritajit Kundu, Avinash Singh, and Arijit Kundu <sup>[1]</sup>	2023	107	155122
1588.	The Journal of Chemical Physics	Spin-dependent electrified protein interfaces for probing the CISS effect	Ritu Gupta, Hariharan V Chinnasamy, Dipak Sahu, Saravanan	2023	159	

			Matheshwara n, Chanchal Sow, Prakash Chandra Mondal			
1589.	Nature	Pines' demon observed as a 3D acoustic plasmon in Sr <sub>2</sub> RuO <sub>4</sub>	Ali A Husain, Edwin W Huang, Matteo Mitrano, Melinda S Rak, Samantha I Rubeck, Xuefei Guo, Hongbin Yang, Chanchal Sow, Yoshiteru Maeno, Bruno Uchoa, Tai C Chiang, Philip E Batson, Philip W Phillips, Peter Abbamonte	2023	621	66-70
1590.	Physical Review B	Magnetic anisotropy and	Amitava Ghosh,	2023	21	214423

		magnetocaloric effect in Gd <sub>2</sub> NiMnO <sub>6</sub> thin films	Roumita Roy, RC Sahoo, Sachindra Nath Sarangi, Mithun Ghosh, Dipak Mazumdar, D Samal, PS Anil Kumar, Zakir Hossain, Sudipta Kanungo, Chanchal Sow			
1591.	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences	Advances in All Optical Spintronic Memory	Chandrima Banerjee, Anjan Barman	2023	93	511-516
1592.	Physica A-Statistical Mechanics and Its Applications	In memory of Dietrich St auffer	Marcel Ausloos, Debashish Chowdhury, Lucilla de Arcangelis, Hans Herrmann, Janusz Hołyst, János Kertész, Krzysztof	2023	617	

			Kulakowski, Suzana Moss de Oliveira			
1593.	JHEP 09	Thermalization in the presence of a time-dependent dissipation and its impact on dark matter production	Debtosh Chowdhury, Arpan Hait	2023	85	1-26
1594.	Physical Review D	Gluon distributions in the proton in a light-front spectator model	Dipankar Chakrabarti, Poonam Choudhary, Bheemsehan Gurjar, Raj Kishore, Tanmay Maji, Chandan Mondal, Asmita Mukherjee	2023	108	014009
1595.	Physical Review D	Sampling U(1) gauge theory using a retrainable conditional flow-based model	Ankur Singha, Dipankar Chakrabarti, Vipul Arora	2020 2023	108	074518
1596.	The European Physical Journal A	Analytical evaluation of elastic lepton-proton two-photon	Poonam Choudhary, Udit Raha, Fred Myhrer,	2024	60	69

		exchange in chiral perturbation theory	Dipankar Chakrabarti			
1597.	Physical Review D	Islands for entanglement negativity in communicating black holes	Mir Afrasiar, Jaydeep Kumar Basak, Ashish Chandra, Gautam Sengupta	2023	108	066013
1598.	Physical Review D	Defect extremal surfaces for entanglement negativity	Debarshi Basu, Himanshu Parihar, Vinayak Raj, Gautam Sengupta	2023	108	106005
1599.	Physical Review D	Odd entanglement entropy in $T\bar{T}$ deformed CFT <sub>2</sub> s and holography	Debarshi Basu, Saikat Biswas, Ankur Dey, Boudhayan Paul, Gautam Sengupta	2023	108	126013
1600.	Universe	On Minimal Entanglement Wedge Cross Section for Holographic Entanglement	Jaydeep Kumar Basak, Vinay Malvimat, Himanshu Parihar,	2024	10	125



		Negativity	Boudhayan Paul, Gautam Sengupta			
1601.	The European Physical Journal C	Reflected entropy for communicating black holes II: planck braneworlds	Mir Afrasiar, Jaydeep Kumar Basak, Ashish Chandra, Gautam Sengupta	2024	84	250
1602.	Space Science Reviews	Mean field models of flux transport dynamo and meridional circulation in the Sun and stars	Gopal Hazra, Dibyendu Nandy, Leonid Kitchatinov, Arnab Rai Choudhuri	2023	219	39
1603.	Laser Science	Spin-Radial Interaction of Light in the Graded-Azimuthal-Index Fiber	S Srinivasu, Harshwardhan Wanare	2023		JM7A. 98
1604.	Journal of Biomedical Optics	Hierarchical decision model for in vitro bilirubin content prediction from absorption spectrum of whole blood	Swati Mishra, Harshwardhan Wanare	2023	28	067001-067001

1605.	Indian Journal of Pure & Applied Physics (IJPAP)	Surface State Engineering Using Bulk-Band Geometric Phases: Band Inversion and its Observable Implications in One-Dimensional Photonic Crystals	Nitish Kumar Gupta, Aditi Chopra, Mukesh Kumar, Anjani Kumar Tiwari, Sudipta Sarkar Pal, Harshawardhan Wanare, S Anantha Ramakrishna	2023	61	560-567
1606.	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	2024	5	2300155
1607.	Applied Physics Letters	Realization of Jackiw–Rebbi zero-energy modes	Nitish Kumar Gupta, Sapireddy	2024	124	

		at photonic crystal domain walls: Emergence of polarization-indiscriminate surface states	Srinivasu, Mukesh Kumar, Anjani Kumar Tiwari, Sudipta Sarkar Pal, Harshawardhan Wanare, S. Anantha Ramakrishna			
1608.	Physical Review B	FeRhCrSi: Spin semimetal with spin-valve behavior at room temperature	Y Venkateswara, Jadupati Nag, S Shanmukharao Samatham, Akhilesh Kumar Patel, PD Babu, Manoj Raama Varma, Jayita Nayak, KG Suresh, Aftab Alam	2023	107	L100401
1609.	Journal of Physics G:	Searches for baryon number violation in neutrino experiments: a	PSB Dev, LW Koerner, KS Babu, JL Barrow, Joydeep	2024	51	033001

		white paper	Chakrabortty			
1610.	The European Physical Journal Plus	One-loop effective action up to dimension eight: integrating out heavy scalar (s)	Upalaparna Banerjee, Joydeep Chakrabortty, Shakeel Ur Rahaman, Kaanapuli Ramkumar	2024	139	1-44
1611.	Physical Review D	EFT, decoupling, Higgs boson mixing, and higher dimensional operators	Upalaparna Banerjee, Joydeep Chakrabortty, Christoph Englert, Wrishik Naskar, Shakeel Ur Rahaman, Michael Spannowsky	2024	109	055035
1612.	Nuclear Physics B	One-loop effective action up to dimension eight: integrating out heavy fermion (s)	Joydeep Chakrabortty, Shakeel Ur Rahaman, Kaanapuli Ramkumar	2024	116488	1-42
1613.	The European Physical Journal Plus	One-loop effective action up to any	Upalaparna Banerjee,	2024	139	1-20

		mass-dimension for non-degenerate scalars and fermions including light-heavy mixing	Joydeep Chakraborty, Shakeel Ur Rahaman, Kaanapuli Ramkumar			
1614.	Physical Review D	EFT, decoupling, Higgs boson mixing, and higher dimensional operators	Upalaparna Banerjee, Joydeep Chakraborty, Christoph Englert, Wrishik Naskar, Shakeel Ur Rahaman, Michael Spannowsky	2024	109	055035
1615.	Physical Review B	Ferromagnetism and metal-insulator transition in F-doped LaMnO <sub>3</sub>	Ekta Yadav, Pramod Ghising, K. P. Rajeev, and Z. Hossain	2023	107	214446
1616.	Bulletin of the American Physical Society	Ferromagnetism in fluorine doped LaMnAsO	Ekta Yadav, Manik Kuila, K. P. Rajeev, Zakir Hossain	2024		

1617.	Phys. Rev. D	Dynamical stability in models where dark matter and dark energy are nonminimally coupled to curvature	Saddam Hussain, Anirban Chatterjee, and Kaushik Bhattacharya	2023	108	103502
1618.	Phys. Rev. D	Gravitational collapse of matter in the presence of quintessence and phantomlike scalar fields	Priyanka Saha, Dipanjan Dey, and Kaushik Bhattacharya	2023	108	084025
1619.	Phys. Rev. D	Embedding ultraslow-roll inflaton dynamics in warm inflation	Sandip Biswas, Kaushik Bhattacharya, and Suratna Das	2024	109	023501
1620.	Proceedings of the National Academy of Sciences	A unified understanding of minimum lattice thermal conductivity	Yi Xia, Dale Gaines, Jiangang He, Koushik Pal, Zhi Li, Mercouri G Kanatzidis, Vidvuds Ozoliņš, Chris Wolverton	2023	120	e2302541120

1621.	Advanced Functional Materials	Extended Antibonding States and Phonon Localization Induce Ultralow Thermal Conductivity in Low Dimensional Metal Halide	Paribesh Acharyya, Koushik Pal, Abdul Ahad, Debattam Sarkar, Kewal Singh Rana, Moinak Dutta, Ajay Soni, Umesh V Waghmare, Kanishka Biswas	2023	33	2304607
1622.	Advanced Materials	High Thermoelectric Performance in Phonon-Glass Electron-Crystal Like AgSbTe <sub>2</sub>	Vaishali Taneja, Subarna Das, Kapildeb Dolui, Tanmoy Ghosh, Animesh Bhui, Usha Bhat, Dinesh K. Kedia, Surjeet Singh, Koushik Pal, Ranjan Datta, and	2024	36	2307058

			Kanishka Biswas			
1623.	2D Materials	Interplay of Topology and Antiferromagnetic Order in Two-dimensional van der Waals Crystals of $(\text{Ni}_x\text{Fe}_{1-x})_2\text{P}_2\text{S}_6$	Nasaru Khan, Deepu Kumar, Vivek Kumar, Yuliia Shemerliuk, Sebastian Selter, Bernd Büchner, Koushik Pal, Saicharan Aswartham, and Pradeep Kumar	2024	Yet to be assigned	Yet to be assigned
1624.	Journal of the American Chemical Society	Structure Low Dimensionality and Lone Pair Stereochemical Activity, the Key to Low Thermal Conductivity in Pb-Sn-S System	Paribesh Acharyya, Koushik Pal, Bin Zhang, Tristan Barbier, Carmelo Prestipino, Philippe etc.	2024	Yet to be assigned	Yet to be assigned
1625.	Nano Letters	Electron-Phonon Interaction Mediated Gigantic Enhancement of	Zhi Li, Koushik Pal, Huiju Lee, Chris	2024	Yet to be assigned	Yet to be assigned



		Thermoelectric Power Factor Induced by Topological Phase Transition	Wolverton and Yi Xia			
1626.	Advanced Materials	High Thermoelectric Performance in Phonon-Glass Electron-Crystal Like AgSbTe <sub>2</sub>	Vaishali Taneja, Subarna Das, Kapildeb Dolui, Tanmoy Ghosh, Animesh Bhui, Usha Bhat, Dinesh Kumar Kedia, Koushik Pal, Ranjan Datta, Kanishka Biswas	2024		2307058
1627.	Advanced Materials Interfaces	Electric Field Driven Reversible Spinodal Dewetting of Thin Liquid Films on Slippery Surfaces	B. Bhatt, S. Gupta, V. Sumathi, S. Chandran, and Krishnacharya	2023	10	2202063
1628.	Soft Matter	Numerical and Experimental Investigation of Static Wetting	S. Gupta, B. Bhatt, M. Sharma, and Krishnacharya	2023	19	1164-1173

		Morphologies of Aqueous Drops on Lubricated Slippery Surfaces Using a Quasi-Static Approach	a			
1629.	Langmuir	Frequency Dependent Dewetting of Thin Liquid Films Using External ac Electric Field	B. Bhatt, S. Mukhopadhyay and Krishnacharya	2023	39	13512-13520
1630.	SN Computer Sciences	Scalable Multi-node Fast Fourier Transform on GPUs	Manthan Verma, Soumyadeep Chatterjee, Gaurav Garg, Bharatkumar Sharma, Nishant Arya, Sashi Kumar, Anish Saxena, Mahendra K. Verma	2023	4	625
1631.	Urban Climate	Event-based fog climatology and typology for cities in Indo-Gangetic plains	Prasad Deshpande, Deepika Meena, Shivam Tripathi,	2023	51	101642

			Arnab Bhattacharya, Mahendra K. Verma			
1632.	Physical Review E	Renormalization of the shell model of turbulence	Mahendra K. Verma and Shadab Alam	2023	107, I- 6	064118
1633.	Physical Review E	Bolgiano-Obukhov spectrum and mixing efficiency in stably stratified turbulence	Shadab Alam, Mahendra K. Verma and Pranav Joshi	2023	<b>1. 1</b> <b>07, I- 5</b>	055106
1634.	Physical Review E	Nonlinear energy dissipation and transfers in coarsening systems	Mahendra K. Verma, Ramgopal Agrawal, Pradeep K. Yadav, and SanPuri	2023	<b>2. 1</b> <b>07, I- 3</b>	034207
1635.	Physical Review Fluids	Bolgiano- Obukhov scaling in two-dimensional Rayleigh-Bénard convection at extreme Rayleigh numbers	Roshan Samuel and Mahendra K. Verma	2024	9, I- 2	023502
1636.	Journal of Parallel and Distributed Computing	SUARA: A scalable universal allreduce communication algorithm for acceleration of parallel deep	Emin Nuriyev, Ravi Reddy Manumachu, Samar Aseeri, Mahendra K.	2024	183	104767

		learning applications	Verma, Alexey L. Lastovetsky,			
1637.	European Journal of Physics	Solving time-independent Schrödinger equation variationally using random numbers Authors	Pranjal Praneel, Ashish Kumar, Manoj K Harbola	2023	45	015401
1638.	Oxford Open Materials Science	Density functional theory of material design: fundamentals and applications—II	Ashish Kumar, Prashant Singh, Manoj K Harbola	2024	4	itae002
1639.	Journal of Instrumentation	Highly-parallelized simulation of a pixelated LArTPC on a GPU	A. Abed Abud et al.	2023	18	P04034
1640.	Phys. Rev. D	Identification and reconstruction of low-energy electrons in the ProtoDUNE-SP detector	A. Abed Abud et al.	2023	107	092012
1641.	Physical Review D	Testing the dynamical stability and the validity of the generalized second law within the phantom	Naseeba KM, Sarath Nelleri, Navaneeth Poonthottathi 1	2024	109	063528

		dynamical dark energy model				
1642.	Journal of High Energy Physics	A CFT interpretation of cosmological correlation functions in $\alpha$ -vacua in de-Sitter space	Sachin Jain, Nilay Kundu, Suman Kundu, Abhishek Mehta, Sunil Kumar Sake	2023	05	111
1643.	Journal of High Energy Physics	Entropy-current for dynamical black holes in Chern-Simons theories of gravity	Ishan Deo, Prateksh Dhivakar, Nilay Kundu	2023	11	114
1644.	Microelectronic Engineering	Stacked Lightweight Metasurfaces for Wider Stopband in X-K band	Garima Joshi, Bhavya S. Sanghavi and R. Vijaya	2023	278	112041
1645.	Thin Solid Films	Patterned dielectric mirrors for uniformly high reflection in polarized light	Linu George, Govind Kumar, Arpita Haldar and R. Vijaya	2023	776	139886
1646.	Optics and Laser Technology	Diffractional metasurfaces with opposite curvatures of unit cells	Arpita Haldar, Garima Joshi and R. Vijaya	2023	162	109309
1647.	Frontiers in Photonics	Dielectric Metasurfaces for	Dhananjay De and R.	2023	4	1234060

		Refractive Index Sensing towards Anemia Detection	Vijaya			
1648.	Resonance – journal of Science Education	Frequency selective surfaces – an Introduction	Bhavya S. Sanghavi, Garima Joshi and R. Vijaya	2023	28	1637-1649
1649.	Indian Journal of Physics	Improving antireflection in near-infrared wavelength range by double-sided planar coating on common substrates	Linu George, Sumedha and R. Vijaya	2024	98	733-740
1650.	Photonics and Nanostructures – Fundamentals and Applications	Large-period plasmonic grating with sinusoidal profile for monitoring water quality with high sensitivity	Vaswati Biswas and R. Vijaya	2024	58	101199
1651.	Journal of the American Ceramic Society	Room-temperature structural, magnetic, and dielectric characteristics of La-doped CuO bulk multiferroic	Kumar Brajesh, Sudhir Ranjan, Rishow Kumar, Rajeev Gupta, Ambesh Dixit, Ashish	2023	106	6769-6777

			Garg			
1652.	Materials Today: Proceedings	Removal of encapsulant Ethylene-vinyl acetate (EVA) from solar cells of photovoltaic modules (PVMs)	Harish Kumar Trivedi, Arunabh Meshram, Rajeev Gupta	2023		
1653.	Materials Today Communications	Doping induced tailoring of properties in polycrystalline spinel vanadate– MnV <sub>2</sub> O <sub>4</sub>	Mrittika Singha, Rahul Kumar Yadav, Sunny Choudhary, Charu Kapoor, Rajeev Gupta	2023	35	105602
1654.	ACS Applied Materials & Interfaces	Functionality Tuning in Hierarchically Engineered Magnetolectric Nanocomposites for Energy- Harvesting Applications	Shashikant Gupta, Chandrachur Chatterjee, Bushara Fatma, Kumar Brajesh, Rajeev Gupta, Pulickel M Ajayan,	2023	15	26563-26575

			Ashish Garg			
1655.	Journal of Environmental Chemical Engineering	Recycling of photovoltaic modules for recovery and repurposing of materials	Harish Trivedi, Arunabh Meshram, Rajeev Gupta	2023	11	109501
1656.	IEEE Transactions on Magnetism	Evaluation of memory capacity and time series prediction using a spin Hall oscillator as reservoir	Arun Jacob Mathew, John Rex Mohan, Ruoyan Feng, Rohit Medwal, Surbhi Gupta, Rajdeep Singh Rawat, Yasuhiro Fukuma	2023		
1657.	IEEE Transactions on Electron Devices	Ion Irradiation-Induced Interface Mixing and the Charge Trap Profiles Investigated by In Situ Electrical Measurements in Pt/Al <sub>2</sub> O <sub>3</sub> /β-	N Manikanthababu, C Joishi, J Biswas, K Prajna, K Asokan, Joseph Vimal Vas, Rohit Medwal, RC	2023		



		Ga <sub>2</sub> O <sub>3</sub> MOSCAPs	Meena, S Lodha, R Singh			
1658.	Scientific Reports	Classification tasks using input driven nonlinear magnetization dynamics in spin Hall oscillator	John Rex Mohan, Arun Jacob Mathew, Kazuma Nishimura, Ruoyan Feng, Rohit Medwal, Surbhi Gupta, Rajdeep Singh Rawat, Yasuhiro Fukuma	2023	13	7909
1659.	physica status solidi (RRL)–Rapid Research Letters	Room-Temperature Charge-to-Spin Conversion from Quasi-2D Electron Gas at SrTiO <sub>3</sub> -Based Interfaces	Utkarsh Shashank, Angshuman Deka, Chen Ye, Surbhi Gupta, Rohit Medwal, Rajdeep Singh Rawat, Hironori Asada, X Renshaw Wang,	2023	17	2200377

			Yasuhiro Fukuma			
1660.	Physical Review Materials	Phonon scattering and magnetic manifold switching in (GdSm)CrO <sub>3</sub>	S Das, RK Dokala, B Weise, PK Mishra, Rohit Medwal, RS Rawat, S Thota	2023	7	084410
1661.	Optical and Quantum Electronics	Depreciative behavior of nanotwinning towards emission in Ag doped CdS QDs	Tania Kalsi, P Sakthivel, Sachin Kumar Godara, Rohit Medwal, Nupur Sxaena, Pragati Kumar	2023	55	996
1662.	Physical Review B	Reconfigurable neural spiking in bias field free spin Hall nano- oscillator	Sourabh Manna, Rohit Medwal, Rajdeep Singh Rawat	2023	108	184411
1663.	SPIN	Pulsed Hot Dense Oxygen Plasma	Sachin Kumar,	2023		2340024

		Irradiation of Platinum for Improved Spin Hall Effect	Sourabh Manna, John Rex Mohan, Utkarsh Shashank, Joseph Vimal Vas, Mayank Mishra, Surbhi Gupta, Hironori Asada, Yasuhiro Fukuma, Rajdeep Singh Rawat, Rohit Medwal			
1664.	Advanced Optical Materials	Secondary spin current driven efficient THz spintronic emitters	Piyush Agarwal, Yingshu Yang, Rohit Medwal, Hironori Asada, Yasuhiro Fukuma, Marco Battiato, Ranjan Singh	2023	11	2301027

1665.	Journal of Physics D: Applied Physics	<a href="#">Flexible dielectric spacer with tunable dielectric properties for metamaterial absorber application</a>	Kajal Chaudhary, Sudha Malik, Gaganpreet Singh, Sudeb Bhattacharya, J Ramkumar, S Anantha Ramakrishna, Kumar Vaibhav Srivastava	2023	57	055101
1666.	Journal of Micromanufacturing	Analytical study for the selection of mask size and shape for obtaining high machining quality of complex features	Gaganpreet Singh, Bhawandeep Sharma, Raj Kumar, J Ramkumar, S. Anantha Ramakrishna	2023	6	131-140
1667.	Thin Solid Films	Annealing enhanced phase transition in VO <sub>2</sub> thin films deposited on glass substrates via chemical vapor deposition	Bharathi Rajeswaran, Jitendra Kumar Pradhan, S Anantha Ramakrishna, Arun M Umarji	2023	778	139918
1668.	Phys. Rev. E	Selection-recombination-mutation dynamics:	Suman Chakraborty and Sagar	2023	108	064404

		Gradient, limit cycle, and closed invariant curve	Chakraborty			
1669.	Phys. Rev. E	Hostility prevents the tragedy of the commons in metapopulation with asymmetric migration: A lesson from queenless ants	Joy Das Bairagya and Sagar Chakraborty	2023	108	064401
1670.	Phys. Rev. E	Periodic orbits in deterministic discrete-time evolutionary game dynamics: An information-theoretic perspective	Sayak Bhattacharjee, Vikash Kumar Dubey, Archan Mukhopadhyay, and Sagar Chakraborty	2023	107	064405
1671.	Phys. Rev. E	Replicator-mutator dynamics of the rock-paper-scissors game: Learning through mistakes	Suman Chakraborty, Ishita Agarwal, and Sagar Chakraborty	2024	109	034404
1672.	Physica A	Repeated quantum game as a stochastic game: Effects of the shadow of the future and	Archan Mukhopadhyay, Saikat Sur, Tanay Saha, Shubhadeep	2024	637	129613

		entanglement	Sadhukhan, and Sagar Chakraborty.			
1673.	Chaos 34	Hypochoas prevents tragedy of the commons in discrete-time eco-evolutionary game dynamics.	Samrat Sohel Mondal, Avishuman Ray, and Sagar Chakraborty	2024		023122
1674.	Journal of Optics	Grating assisted temperature insensitive micro-ring resonator biosensor	Yogesh Kumar Verma, Soumya Kumari, Saurabh Mani Tripathi	2023	25	125801
1675.	Applied Optics	Phase-shifted fiber Bragg grating filters based on counter-propagating cladding modes coupling	Avijit Koley, Saurabh Mani Tripathi	2023	62	8632-8641
1676.	Plasmonics	Plasmonic Ring Resonator Sensor with High Figure of Merit and Sensitivity Using Degenerate N-Doped Silicon for SPP Excitation	Soumya Kumari, Yogesh Kumar Verma, Saurabh Mani Tripathi	2024		1-9

1677.	Photonics and Nanostructures- Fundamentals and Applications	Cost-effective ethanol sensor utilising inherent mode-transition in photonic crystal fiber	Hukam Singh, Saurabh Mani Tripathi	2024		101236
1678.	Journal of Optical Communications	Modelling and analysis of chirped long-period grating inscribed in a planer optical waveguide structure for sensing applications	Adarsh Chandra Mishra, Krishnendu Dandapat, Saurabh Mani Tripathi, Pooja Lohia, Dilip Kumar Dwivedi	2024	44	s245-s251
1679.	Journal of Optics	Ultra-narrow linewidth micro-ring resonator for optical notch filter and methane sensing applications	Yogesh Kumar Verma, Saurabh Mani Tripathi	2024		1-9
1680.	Journal of Physics: Condensed Matter	Probing the strongly correlated magnetic state of Co <sub>2</sub> C nanoparticles at low temperatures using $\mu$ SR	Nirmal Roy, PC Mahato, Suprotim Saha, M Telling, JS Lord, DT Adroja, S. S.	2023	36	085603

			Banerjee			
1681.	Physical Review B	Exploration of strongly correlated states in SmB <sub>6</sub> through a comparison of its two-coil pick-up response to that of Bi <sub>2</sub> Se <sub>3</sub>	Sayantan Ghosh, Sugata Paul, Amit Jash, Zachary Fish, S. S. Banerjee	2023	108	205101(11)
1682.	Physical Review B	Dimension-Dependent Critical Scaling Analysis and Emergent Competing Interaction Scales in a 2D Van der Waals magnet Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub>	C Mahato, Suprotim Saha, Bikash Das, Subhadeep Datta, Rajib Mondal, Sourav Mal, Ashish Garg, Prasenjit Sen, S. S. Banerjee	2024	109	165405
1683.	AIP Advances	Impact of Co <sub>2</sub> C nanoparticles on enhancing the critical current density of Bi-2223 superconductor	Md Arif Ali, Sourav M Karan, Nirmal Roy, S. S. Banerjee	2024	14	035110
1684.	Langmuir	Frequency-Dependent	Bidisha Bhatt,	2023	39	13512–13520



		Dewetting of Thin Liquid Films Using External ac Electric Field	Soumik Mukhopadhyay, and Krishnacharya Khare*			
1685.	Physics of Plasmas	Current density profiles in a compact dipole plasma	Ayesha Nanda, Sudeep Bhattacharjee	2023	30	052107-1 to 052107-13
1686.	New Journal of Physics	Near-field diffraction of protons by a nanostructured metallic grating under external electric field: asymmetry and sidebands in Talbot self-imaging	S Barman, Sudeep Bhattacharjee	2023	25	083044-1 to 083044-19
1687.	Plasma Sources Science and Technology	Measurement of electron energetics in the equatorial and polar planes of a compact dipole plasma driven at steady state	Sargam Hunjan, Sudeep Bhattacharjee	2023	32	105018-1 to 105018-13
1688.	Physics of Plasmas	Plasma parameters and electric field fluctuations in a cold micro-plasma jet interacting with	Deepika Behmani, Sudeep Bhattacharjee	2023	30	113503-1 to 113503-14

		a substrate				
1689.	Thin Solid Films	Oxidation dynamics of Cu thin film on Si surface by mass analyzed O <sup>+</sup> ion implantation and study their electrical and optical properties	Dipak Bhowmik, Joy Mukherjee, Prasanta Karmakar, Sudeep Bhattacharjee	2023	787	140144-1 to 140144-9
1690.	Fluid Phase Equilibria	Uncertainties in the transport properties of helium gas at cryogenic temperatures determined using molecular dynamics simulation	Kaanapuli Ramkumar, Swati Swagatika Mishra, Sudeep Bhattacharjee	2024	577	113979-1 to 113979-9
1691.	International Journal of Heat and Mass Transfer	Collisional cooling in confined gases at cryogenic temperatures: Time dependent near-wall accumulation and gas dynamics	Swati Swagatika Mishra, Sudeep Bhattacharjee	2024	220	125008-1 to 125008-11
1692.	Physics of Plasmas	Frequency-locked measurement of floating potential fluctuations in cold micro-plasma jets:	Deepika Behmani, Michael Keidar, Sudeep	2024	31	033505-1 to 033505-7

		Interactive surface feedback effects on reactive species generation	Bhattacharjee			
1693.	npj 2D Materials and Applications	Twist angle dependent interlayer transfer of valley polarization from excitons to free charge carriers in WSe <sub>2</sub> /MoSe <sub>2</sub> heterobilayers	Frank Volmer, Manfred Ersfeld, Paulo E. Faria Junior, Lutz Waldecker, Bharti Parashar, Lars Rathmann, Sudipta Dubey, Iulia Cojocariu, Vitaliy Etc.	2023	58	
1694.	Physical Review E	Universal turbulent relaxation of fluids and plasmas by the principle of vanishing nonlinear transfers	Supratik Banerjee, Arijit Halder, Nandita Pan	2023	107	L043201
1695.	Physical Review Fluids	Contribution of the Hall term in small-scale magnetohydrodynamics	Arijit Halder, Supratik Banerjee, Anando G	2023	8	053701

		mic dynamos	Chatterjee, Manohar K Sharma			
1696.	Communications Physics	Universal relaxation of turbulent binary fluids	Nandita Pan, Supratik Banerjee, Arijit Halder	2024	7	
1697.	Journal of Physics A: Mathematical and Theoretical	Conformal Fisher information metric with torsion	Kunal Pal <sup>2,1</sup> , Kuntal Pal <sup>1</sup> and Tapobrata Sarkar	2023	56	335001
1698.	Journal of Cosmology and Astroparticle Physics,	A rotating modified JNW spacetime as a Kerr black hole mimicker	Kunal Pal <sup>1</sup> , Kuntal Pal <sup>1</sup> , Rajibul Shaikh <sup>2</sup> and Tapobrata Sarkar	2023	2023	
1699.	Monthly Notices of the Royal Astronomical Society	The Schönberg–Chandrasekhar limit in presence of small anisotropy and modified gravity	Shaswata Chowdhury, Tapobrata Sarkar	2023	523	518–526
1700.	Journal of Cosmology and Astroparticle Physics	Tidal disruption of white dwarfs in a modified gravity theory with SPH	Debojyoti Garain, Pritam Banerjee, Shaswata Chowdhury and	2023	2023	

			Tapobrata Sarkar			
1701.	Monthly Notices of the Royal Astronomical Society	Deviation in stellar trajectory induced by asymmetry in partial tidal disruption	Pritam Banerjee, Debojyoti Garain, Shaswata Chowdhury, Dhananjay Singh, Rohan Joshi, Tapobrata Sarkar	2023	522	4332–4341
1702.	Phys. Rev. B	Time evolution of spread complexity and statistics of work done in quantum quenches	Kuntal Pal, Kunal Pal, Ankit Gill, and Tapobrata Sarkar	2023	108	104311
1703.	Phys. Rev. B	Complexity in two-point measurement schemes	Ankit Gill, Kunal Pal, Kuntal Pal, and Tapobrata Sarkar	2024	109	104303
1704.	Phys. Rev. B	Spread complexity evolution in quenched interacting quantum systems	Mamta Gautam, Kunal Pal, Kuntal Pal, Ankit Gill, Nitesh	2024	109	014312

			Jaiswal, and Tapobrata Sarkar			
1705.	Phys. Rev. B	Complexity in two-point measurement schemes	Ankit Gill, Kunal Pal, Kuntal Pal, and Tapobrata Sarkar	2024	109	104303
1706.	Journal of the American Chemical Society	How Cell-Penetrating Peptides Behave Differently from Pore-Forming Peptides: Structure and Stability of Induced Transmembrane Pores	Haleh Alimohamadi, Jaime de Anda, Michelle W Lee, Nathan W Schmidt, Taraknath Mandal, Gerard CL Wong	2023	145	26095-26105
1707.	Nature Communications	Synaptotagmin-7 outperforms synaptotagmin-1 to promote the formation of large, stable fusion pores via robust membrane penetration	Kevin C Courtney, Taraknath Mandal, Nikunj Mehta, Lanxi Wu, Yueqi Li, Debasis Das, Qiang Cui, Edwin R Chapman	2023	14	7761

1708.	The Journal of Chemical Physics	Origin of the nonlinear structural and mechanical properties in oppositely curved lipid mixtures	Shivam Gupta, Jatin Soni, Awneesh Kumar, Taraknath Mandal	2023	159	
1709.	bioRxiv	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 Wong	2024		2024.01.05.574447
1710.	Physical Review B	Nonlinear magnetotransport in a two-dimensional system with merging Dirac points	Ojasvi Pal, Bashab Dey, Tarun Kanti Ghosh	2023	108	035203
1711.	Physical Review B	Polarization and third-order Hall effect in III-V semiconductor heterojunctions	Ojasvi Pal, Tarun Kanti Ghosh	2024	109	035202
1712.	Nature Photonics	Brilliant whiteness in shrimp from	Tali Lemcoff, Lotem Alus,	2023		1-9

		ultra-thin layers of birefringent nanospheres	Avital Wagner, Gan Zhang, Mariela J Pavan, Venkata Jayasurya Yallapragada, etc.			
1713.	Proceedings of the National Academy of Sciences	Lizards exploit the changing optics of developing chromatophore cells to switch defensive colors during ontogeny	Gan Zhang, Venkata Jayasurya Yallapragada, Topaz Halperin, Avital Wagner, Michal Shemesh, Alexander Upcher, Iddo Pinkas, Harry LO McClelland, Dror Hawlena, Benjamin A Palmer	2023	120	e2215193120
1714.	Magnetochemistry	Effect of Co-Doping on the Magnetic Ground State of the Heavy-	Rajesh Tripathi, Dmitry Khalyavin,	2023	9	115



		Fermion System CeCu <sub>2</sub> Ge <sub>2</sub> Studied by Neutron Diffraction	Shivani Sharma, Devashibhai Thakarshibha i Adroja, Zakir Hossain			
1715.	Physical Review B	Ferromagnetism and metal-insulator transition in F-doped LaMnO <sub>3</sub>	Ekta Yadav, Pramod Ghising, KP Rajeev, Z Hossain	2023	107	214446
1716.	Physical Review B	Oblique magnetic anisotropy and domain texture in Bi <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> films	Kishori Lal, Ravinder Kumar, Pramod Ghising, B Samantaray, Z Hossain	2023	108	014401
1717.	Physical Review B	Magnetic, thermodynamic, and magnetotransport properties of CeGaGe and PrGaGe single crystals	Daloo Ram, Sudip Malick, Zakir Hossain, Dariusz Kaczorowski	2023	108	024428
1718.	Communications Materials	Multiple unconventional charge density wave transitions in	Elisabetta Nocerino, Irene Sanlorenzo,	2023	4	77

		LaPt <sub>2</sub> Si <sub>2</sub> superconductor clarified with high- energy X-ray diffraction	Konstantinos Papadopoulo s, Marisa Medarde, Jike Lyu, Yannick Maximilian Klein, Arianna Minelli, Zakir Hossain etc.			
1719.	Journal of Science: Advanced Materials and Devices	Q-dependent electron-phonon coupling induced phonon softening and non- conventional critical behavior in the CDW superconductor LaPt <sub>2</sub> Si <sub>2</sub>	Elisabetta Nocerino, U Stuhr, I San Lorenzo, F Mazza, DG Mazzone, Johan Hellsvik, S Hasegawa, S Asai, T Masuda, S Itoh, A Minelli, Z Hossain, A Thamizhavel, K Lefmann, Y Sassa, Martin Månsson	2023	8	100621

1720.	Physical Review B	Multiple magnetic transitions, metamagnetism, and large magnetoresistance in GdAuGe single crystals	Daloo Ram, J Singh, MK Hooda, K Singh, V Kanchana, D Kaczorowski, Z Hossain	2023	108	235107
1721.	Physical Review B	Magnetic anisotropy and magnetocaloric effect in Gd <sub>2</sub> NiMnO <sub>6</sub> thin films	Amitava Ghosh, Roumita Roy, RC Sahoo, Sachindra Nath Sarangi, Mithun Ghosh, Dipak Mazumdar, D Samal, PS Anil Kumar, Zakir Hossain, Sudipta Kanungo, Chanchal Sow	2023	108	214423
1722.	Journal of Magnetism and Magnetic Materials	Thermodynamic and magnetotransport properties of EuAg <sub>2</sub> Ge <sub>2</sub> single crystals	R Swami, MK Hooda, Zakir Hossain	2024	589	171517

1723.	Bulletin of the American Physical Society	Ferromagnetism in fluorine doped LaMnAsO	Ekta Yadav, Manik Kuila, KP Rajeev, Zakir Hossain	2024		
1724.	European Physical Journal C	Dynamical stability in presence of non-minimal derivative dependent coupling of k-essence field with a relativistic fluid	Kaushik Bhattacharya, Saddam Hussain, Anirban Chatterjee	2023	83	488 (1-16)
1725.	Physical Review D	Dynamical stability in models where dark matter and dark energy are nonminimally coupled to curvature	Saddam Hussain, Anirban Chatterjee, Kaushik Bhattacharya	2023	108	103502 (1-17)
1726.	Physical Review D	Gravitational collapse of matter in the presence of quintessence and phantomlike scalar fields	Priyanka Saha, Dipanjan Dey, Kaushik Bhattacharya	2023	108	084025 (1-18)
1727.	Physical Review D	Embedding ultraslow-roll inflaton dynamics in warm inflation	Sandip Biswas, Kaushik Bhattacharya,	2024	109	023501 (1-10)

			Suratna Das			
<b>Department of Space, Planetary &amp; Astronomical Sciences &amp; Engineering</b>						
1728.	Proceedings of the Royal Society A	<u>Segregation on small rubble bodies due to impact-induced seismic shaking</u>	S Ghosh, I Sharma, D Dhingra	2024	Accepted	Accepted
1729.	International Journal of Solids and Structures	<u>Indentation of geometrically exact adhesive beams</u>	K Suryanarayanan, T Bhuvana, I Sharma, SL Das	2023	279	112348:1-19
1730.	Physics of Fluids	<u>Equilibria of liquid drops on pre-stretched, nonlinear elastic membranes through a variational approach</u>	V Nair, I Sharma	2023	35	047111
1731.	Journal of Fluid Mechanics, 2023	<u>Equilibrium shapes of liquid drops on pre-stretched nonlinear elastic membranes</u>	V Nair, I Sharma, V Shankar	2023	961	A28
1732.	Powder Technology	<u>Axial segregation of granular mixtures in laterally shaken multi-trapezium</u>	MI Ansari, A Bhateja, I Sharma	2023	417	118265

		<u>channels</u>				
1733.	Monthly Notices of Royal Astronomical Society	Are odd radio circles virial shocks around massive galaxies? Implications for cosmic-ray diffusion in the circumgalactic medium	Shotaro Yamasaki, Kartick C. Sarkar, Zhaozhou Li	2024	528	3854-3863
1734.	The Astronomy and Astrophysics Review	The Fermi/eROSITA bubbles: a look into the nuclear outflow from the Milky Way	Kartick C. Sarkar	2024	32	1-84
1735.	Monthly Notices of Royal Astronomical Society	X-ray signatures of galactic outflows into the circumgalactic medium	Ranita Jana, Kartick C. Sarkar, Jonathan Stern, Amiel Sternberg	2024	-	-
1736.	Frontiers in Astronomy and Space Sciences	The high energy X-ray probe (HEX-P): sensitive broadband X-ray observations of transient phenomena in the	<u>Brightman,</u> <u>Murray ;</u> <u>Margutti,</u> <u>Raffaella ;</u> <u>Polzin,Ava</u> <u>Jaodand,</u>	2024	vol. 10, id. 1292656	

		2030s	<u>Amruta</u> ;  <u>Hotokezaka,</u> <u>Kenta</u> ;  <u>Alford, Jason</u> <u>A. J.</u> ;  <u>Hallinan,</u> <u>Gregg</u> ;  <u>Kammoun,</u> <u>Elias</u> ;  <u>Mooley,</u> <u>Kunal</u> ; <u>Masterson,</u> <u>Megan</u> ;  <u>Marcotulli,</u> <u>Lea</u> ;  <u>Rau, Arne</u> ;  <u>Wevers,</u> <u>Thomas</u> ;  <u>Younes,</u> <u>George A.</u> ;  <u>Stern, Daniel</u> ;  <u>García, Javier</u> <u>A.</u> ;  <u>Madsen,</u> <u>Kristin</u>			
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1737.	High Energy Astrophysical Phenomena (astro-ph.HE)	A Radio Flare in the Long-Lived Afterglow of the Distant Short GRB 210726A: Energy Injection or a Reverse Shock from Shell Collisions?	<u>Genevieve Schroeder</u> (Northwestern/CIERA), <u>Lauren Rhodes</u> , <u>Tanmoy Laskar</u> , <u>Anya Nugent</u> , <u>Alicia Rouco Escorial</u> , <u>Jillian C. Rastinejad</u> , <u>Wen-fai Fong</u> , <u>Alexander J. van der Horst</u> , <u>Péter Veres</u> , <u>Kate D. Alexander</u> , <u>Alex Andersson</u> , <u>Edo Berger</u> , <u>Peter K. Blanchard</u> , <u>Sarah Chastain</u> , <u>Lise Christensen</u> , <u>Rob Fender</u> , <u>David A. Green</u> , <u>Paul</u>	2023		8 pages, 10 figures, submitted to ApJ
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			<u>Groot, Ian</u> <u>Heywood,</u> <u>Assaf</u> <u>Horesh, Luca</u> <u>Izzo, Charles</u> <u>D. Kilpatrick,</u> <u>Elmar</u> <u>Körding,</u> <u>Amy Lien,</u> <u>Daniele B.</u> <u>Malesani,</u> <u>Vanessa</u> <u>McBride,</u> <u>Kunal</u> <u>Mooley,</u> <u>Antonia</u> <u>Rowlinson,</u> <u>Huei Sears,</u> <u>Ben Stappers,</u> <u>Nial Tanvir,</u> <u>Susanna D.</u> <u>Vergani,</u> <u>Ralph A.M.J.</u> <u>Wijers,</u> <u>David</u> <u>Williams-</u> <u>Baldwin,</u> <u>Patrick</u> <u>Woudt</u>			
1738.	High Energy Astrophysical Phenomena (astro-	Chemical Distribution of the Dynamical Ejecta in the Neutron Star	<u>Shreya</u> <u>Anand, Peter</u> <u>T. H. Pang,</u> <u>Mattia Bulla,</u>	2023		8 pages, 6 figures

	ph.HE)	Merger GW170817	<u>Michael W. Coughlin,</u> <u>Tim Dietrich,</u> <u>Brian Healy,</u> <u>Thomas Hussenot-Desenonges,</u> <u>Theophile Jegou du Laz,</u> <u>Mansi M. Kasliwal,</u> <u>Nina Kunert,</u> <u>Ivan Markin,</u> <u>Kunal Mooley,</u> <u>Vsevolod Nedora,</u> <u>Anna Neuweiler</u>			
1739.	Monthly Notices of the Royal Astronomical Society,	<b>Day-time-scale variability in the radio light curve of the Tidal Disruption Event AT2022cmc: confirmation of a highly relativistic outflow</b>	<u>Rhodes, L. ;</u> <u>Bright, J. S. ;</u> <u>Fender, R. ;</u> <u>Sfaradi, I. ;</u> <u>Green, D. A. ;</u> <u>Horesh, A. ;</u> <u>Mooley, K. ;</u> <u>Pasham, D. ;</u> <u>Smartt, S. ;</u> <u>Titterington, D. J. ;</u> <u>van der Horst, A. J. Williams, D.</u>	2023	521	389-395

			<u>R. A.</u>			
1740.	The European Physical Journal C	<b>Probing atmospheric effects using GRAPES-3 plastic scintillator detectors</b>	<u>Zuberi, M.</u> ; <u>Ahmad, S.</u> ; <u>Chakraborty, M. Chandra, A.</u> ; <u>Dugad, S. R.</u> ; <u>Goswami, U. D. Gupta, S. K. Hariharan, B.</u> ; <u>Hayashi, Y.</u> <u>Jagadeesan, P.</u> ;  <u>Jain, A.</u> ; <u>Jain, P.</u> ; <u>Jhansi, V. B. Kawakami, S.</u> ;  <u>Kojima, H.</u> ;  <u>Mahapatra, S.</u> ;  <u>Mohanty, P. K.</u> ;  <u>Muraki, Y.</u> ;  <u>Nayak, P. K.</u> ;	2024	84	1-11  Issue 3, article id.255
1741.	<b><u>Physical Review Letters</u></b>	Evidence of a Hardening in the	<u>F. Varsi</u> <sup>1</sup> , <u>S. Ahmad</u> <sup>2</sup> , <u>M.</u>	2024	132	1-7

132	Cosmic Ray Proton Spectrum at around 166 TeV Observed by the GRAPES-3 Experiment	<u>Chakraborty</u> <sup>3</sup> , <u>A. Chandra</u> <sup>2</sup> , <u>S. R. Dugad</u> <sup>3</sup> , <u>U. D.</u> <u>Goswami</u> <sup>4</sup> , <u>S. K. Gupta</u> <sup>3</sup> , <u>B.</u> <u>Hariharan</u> <sup>3</sup> , <u>Y. Hayashi</u> <sup>5</sup> , <u>P.</u> <u>Jagadeesan</u> <sup>3</sup> , <u>A. Jain</u> <sup>3</sup> , <u>P.</u> <u>Jain</u> <sup>1</sup> , <u>S.</u> <u>Kawakami</u> <sup>5</sup> , <u>H. Kojima</u> <sup>6</sup> , <u>P. Lipari</u> <sup>7</sup> , <u>S.</u> <u>Mahapatra</u> <sup>8</sup> , <u>P. K.</u> <u>Mohanty</u> <sup>3,*</sup> , <u>R.</u> <u>Moharana</u> <sup>9</sup> , <u>Y. Muraki</u> <sup>10</sup> , <u>P. K. Nayak</u> <sup>3</sup> , <u>T. Nonaka</u> <sup>11</sup> , <u>A. Oshima</u> <sup>6</sup> , <u>B. P. Pant</u> <sup>9</sup> , <u>D.</u> <u>Pattanaik</u> <sup>3,8</sup> , <u>S. Paul</u> <sup>3</sup> , <u>G. S.</u> <u>Pradhan</u> <sup>12</sup> , <u>M.</u> <u>Rameez</u> <sup>3</sup> , <u>K.</u> <u>Ramesh</u> <sup>3</sup> ,			
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			<u>L. V. Reddy</u> <sup>3</sup> , <u>S. Saha</u> <sup>1</sup> , <u>R. Sahoo</u> <sup>12</sup> , <u>R. Scaria</u> <sup>12</sup> , <u>S. Shibata</u> <sup>6</sup> , and <u>M. Zuberi</u> <sup>3</sup>			
1742.	European Physical Journal C	A study of dipolar signal in distant Quasars with various observables	R. Kothari, M. Panwar, G. Singh, P. Tiwari and P. Jain	2024	84	75(1-13)
1743.	Astrophysical Journal	Small-scale Cosmic-Ray Anisotropy Observed by the GRAPES-3 Experiment at TeV Energies	M. Chakraborty <sup>1</sup> , S. Ahmad <sup>2</sup> , A. Chandra <sup>2</sup> , S. R. Dugad <sup>1</sup> , U. D. Goswami <sup>3</sup> , S. K. Gupta <sup>1</sup> , B. Hariharan <sup>1</sup> , Y. Hayashi <sup>4</sup> , P. Jagadeesan <sup>1</sup> , A. Jain <sup>1</sup> , P. Jain <sup>5</sup> , S. Kawakami <sup>4</sup> , T. Koi <sup>6</sup> , H. Kojima <sup>7</sup> , S. Mahapatra <sup>8</sup> , P. K. Mohanty <sup>1</sup> , R. Moharana <sup>9</sup> ,	2024	961	87(1-7)

			<p>Y. Muraki<sup>10</sup>, T. Nakamura<sup>11</sup>, P. K. Nayak<sup>1</sup>, T. Nonaka<sup>12</sup>, A. Oshima<sup>6</sup>, B. P. Pant<sup>9</sup>, D. Pattanaik<sup>1,8</sup>, S. Paul<sup>1</sup>, G. S. Pradhan<sup>13</sup>, M. Rameez<sup>1</sup>, K. Ramesh<sup>1</sup>, S. Saha<sup>5</sup>, R. Sahoo<sup>13</sup>, R. Scaria<sup>13</sup>, S. Shibata<sup>6</sup>, T. Tabata<sup>6</sup>, H. Takamaru<sup>6</sup>, K. Tanaka<sup>14</sup>, F. Varsi<sup>5</sup>, K. Yamazaki<sup>6</sup>, and M. Zuberi<sup>1</sup></p>			
1744.	Monthly Notices of the Royal Astronomical Society	Correlations between QPO frequencies and spectral parameters of GRS 1915+105 using AstroSat observations,	R. Dhaka, R. Misra, J. S. Yadav and P. Jain	2023	524-2	2721-2732

1745.	Pramana – J. Phys.	A toy model for low-energy nuclear fusion	K RAMKUMAR1 , HARISHYA M KUMAR1 and PANKAJ JAIN	2023	97	109(1-9)
1746.	<u>Journal of Cosmology and Astroparticle Physics</u>	Dipole anisotropy in gravitational wave source distribution	G. Kashyap, N. K. Singh, K. S. Phukon, S. Caudill, P. Jain	2023	06	042(1-18)

**Department of Sustainable Energy Engineering**

1747.	Nature Communication	Local incomplete combustion emissions define the PM 2.5 oxidative	D. Bhattu, S. N. Tripathi, H. S. Bhowmik, et al	2024	15	3517
1748.	Energy Sources Part A: Recovery, Utilization, and Environmental Effects	Enhancing hydrodynamic efficiency of Savonius hydrokinetic turbine through circular deflector flow augmentation.	O. Singh, G. Saini, and A. De	2024	46 (1)	3432–3453
1749.	Journal of Energy Storage	A comprehensive multiphysics approach to model solutal buoyancy,	V. Ranawade, R. Verma, N. Tiwari, and	2024	85	111100

		thermal convection, and electro-vortex flow phenomena for liquid metal batteries	K. S. Nalwa			
1750.	Atmospheric Measurement Techniques	Hybrid instrument network optimization for air quality monitoring	N. Ajnoti, H. Gehlot and S. N. Tripathi	2024	17 (6)	1651–1664
1751.	Atmospheric Pollution Research	Role of sources of NMVOCs in O <sub>3</sub> , OH reactivity, and Secondary Organic Aerosol Formation over Delhi.	Yadav. P., Lal. S., S.N. Tripathi, Jain. V and Mandal. T.K.,	2024	15	102082
1752.	Science of the Total Environment	Contribution of fossil and biomass-derived secondary organic carbon to winter water-soluble organic aerosols in Delhi, India	S. H. Bhowmik. S. N. Tripathi., et al.	2024	912	168655
1753.	International Journal of Green Energy	A novel Bagged-CNN architecture for short-term wind power forecasting	S. Mulewa, A. Parmar and A. De	2024		1–12
1754.	Applied Physics Letters	Interfacial polarization-driven	R. Kumar, S. Priyadershini,	2024	124 (10)	101604



		relaxation in CuO epitaxial thin films	K. Brajesh, S. Gupta, A. Dixit and A. Garg			
1755.	Atmospheric Chemistry and Physics	Variation in chemical composition and volatility of oxygenated organic aerosol in different rural, urban, and mountain environments	W. Huang, C. Wu, L. Y. Gao, Y. Gramlich, S. L. Haslett, J. Thornton, F. D. Lopez-Hilfiker, B. H. Lee, J. W. Song, H. Saathoff, X. L. Shen, R. Ramisetty, S. N. Tripathi, D. Ganguly, F. Jiang, M. Vallon, S. Schobesberger, T. Yli-Juuti and C. Mohr	2024	24 (4)	2607–2624
1756.	Reaction Chemistry & Engineering journal	Biomass-based graphene aerogel for the removal of emerging pollutants from wastewater	V.K. Tripathi, M. Shrivastava, J. Dwivedi, R. K. Gupta, L. K. Jangir and K. M. Tripathi	2024	9 (4)	753–776

1757.	Journal of the Indian Chemical Society	Agricultural waste for the production of biobased products for remediation of hydroquinone from wastewater	Prateek, P. Kumar, R. K. Gupta, V. C. Srivastava, I. D. Mall and U. L. Stangar	2024	101 (3)	101131
1758.	The Journal of Physical Chemistry C	Activation of Methane in Vapor and Molten Sodium Catalyst	R.N. Surya, S.K. Bhagat, H. Metiu and V. Agarwal	2024	128 (8)	3233–3241
1759.	IEEE Transactions on Industrial Electronics	A Novel Nonisolated Four-Port Converter for Flexible DC Microgrid Operation	A. A. Saafan, V. Khadkikar, A. Edpuganti, M. S. E. Moursi and H. H. Zeineldin	2024	71 (2)	1653–1664
1760.	Desalination	Scaling up of nanophotonics-enabled solar direct-contact membrane desalination system under ambient condition and sun tracking: Challenges, remedies and performance report	P. K. Shakya and J. Bhattacharya	2024	576	117343

1761.	Building and Environment	Impact of climate change on the heating and cooling load components of an archetypical residential room in major Indian cities	A. D. A. Babu, R. S. Srivastava and A. C. Rai	2024	250	111181
1762.	ACS Applied Materials & Interfaces	Imine-Linked 2D Conjugated Porous Organic Polymer Films for Tunable Acid Vapor Sensing	J. Gayle, S. Roy, S. Gupta, S. Hassan, A. Rao, P. G. Demingos, K. Miller, G. L. Guo, X. Wang, A. Garg, C. V. Singh, R. Vajtai, J. T. Robinson and P. M. Ajayan	2024	16 (2)	2726–2739
1763.	IEEE Transactions on Power Electronics	Electric Vehicle On-Board Fast Charging Through Converter Maximum Switch Utilization	R. Kushwaha, V. Khadkikar, and A. Edpuganti	2024	39 (1)	998–1014
1764.	Atmospheric Environment	Evaluation of PM2.5 spatio-temporal variability	S. Madhwal, S. N. Tripathi, M.	2024	319	120302

		and hotspot formation using low-cost sensors across urban-rural landscape in lucknow, India	H. Bergin, P. Bhave, B. de Foy, T. V. R. Reddy, S. K. Chaudhry, V. Jain, N. Garg and P. Lalwani			
1765.	Journal of Catalysis	Structures and reactivity of monomeric MoO <sub>x</sub> moieties supported on ZrO <sub>2</sub> (111) slab: A DFT study	A. L. Bose, S. Ramteke, G. Deo and V. Agarwal	2024	429	115267
1766.	Advanced Material Interfaces	Polydopamine-Enabled Biomimetic Surface Engineering of Materials: New Insights and Promising Applications	M. Saraf, R. Ranjan, B. Balasubramaniam, V. K. Thakur and R. K. Gupta	2024	11 (6)	2300670
1767.	Ocean Engineering	Hydrodynamic performance enhancement of Savonius hydrokinetic turbine using wedge-shaped triangular deflector in conjunction with	O. Singh, G. Saini and A. De	2024	292	116572

		circular deflector				
1768.	Fuel	Exploring optimal total metal loading of Ni <sub>3</sub> Fe/Al <sub>2</sub> O <sub>3</sub> catalyst for CO <sub>2</sub> methanation and its kinetic model	Prabhakar Kumar, P. A. J. Apte and G. Deo	2024	367	131447
1769.	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	Enhancing hydrodynamic efficiency of Savonius hydrokinetic turbine through circular deflector flow augmentation	O. Singh, G. Saini and A. De	2024	46 (1)	3432–3453
1770.	Lecture Notes in Mechanical Engineering	Numerical Investigation of Combustion Dynamics in a Multi-element Combustor Using Flamelet Approach	A. Sharma, A. De, V. M. Thannickal, T. John Tharakan and S. Sunil Kumar	2024	4	225–240
1771.	Chemical Engineering Journal	Ruthenium doping of NASICON electrolyte augments the performance of solid-state sodium-ion batteries	M. Dinachandra Singh, D. Kumar Gorai, K. Brajesh, P. Singh, V. Ranawade, A. Vijay Shinde, M.	2024	489	151330

			Jareer, R. Gupta, A. Garg, V. Agarwal and K. S. Nalwa			
1772.	Catalysis Today	O <sub>2</sub> and CO <sub>2</sub> assisted oxidative dehydrogenation of propane using ZrO <sub>2</sub> supported vanadium and chromium oxide catalysts	R. Singh, S. C. Nayak, R. Singh and G. Deo	2024	432	114617
1773.	Building and Environment	Envelope retrofits for enhancing thermal comfort in detached houses in hot semi-arid climatic conditions: A year-long monitoring and simulation study	R. Ukey and A. C. Rai	2024	257	111536
1774.	Lecture Notes in Mechanical Engineering	Experiments on Compressible Vortex Ring Interaction with a Cone Mounted on a Flat Plate	P. K. Nuvvula, A. Yadav, P. K. Karn, R. Rajan, M. Javed and D. Das	2024	2	739–745
1775.	Atmospheric Chemistry and Physics	Variation in chemical	W. Huang, C. Wu, L. Gao,	2024	24 (4)	2607–2624

		composition and volatility of oxygenated organic aerosol in different rural, urban, and mountain environments	Y. Gramlich, S. L. Haslett, J. Thornton, F. D. Lopez-Hilfiker, B. H. Lee, J. Song, H. Saathoff, X. Shen, R. Ramisetty, S. N. Tripathi, D. Ganguly, F. Jiang, M. Vallon, S. Schobesberger, T. Yli-Juuti and C. Mohr			
1776.	Physical Review B	Dimension-dependent critical scaling analysis and emergent competing interaction scales in a two-dimensional van der Waals magnet $\text{Cr}_2\text{Ge}_2\text{Te}_6$	P. C. Mahato, S. Saha, B. Das, S. Datta, R. Mondal, S. Mal, A. Garg, P. Sen and S. S. Banerjee	2024	109 (16)	165405
1777.	Materials Chemistry and Physics	Ionic liquid composites with garnet-type $\text{Li}_{6.75}\text{Al}_{0.25}\text{La}_3\text{Zr}_2\text{O}_{12}$ : Stability, electrical transport,	G. Kaur, S. Sharma, M. D. Singh, K. S. Nalwa, S. C. Sivasubrama	2024	317	129205

		and potential for energy storage applications	nian and A. Dalvi			
1778.	International Journal of Sustainable Engineering	Vortex Bladeless Turbines with Wings	G. S. K. Reddy and D. Das	2024	7	151–159
1779.	International Journal of Sustainable Engineering,	Numerical investigation of the effect of functional layer thickness on solid oxide fuel cell performance	M. Asmare	2024	17 (1)	1–10
1780.	<i>Journal Energy Storage</i>	A comprehensive multiphysics approach to model solutal buoyancy, thermal convection, and electro-vortex flow phenomena for liquid metal batteries	V. Ranawade, R. Verma, N. Tiwari and K. S. Nalwa	2024	85	111100
1781.	Atmospheric Chemistry and Physics	Variation in chemical composition and volatility of oxygenated organic aerosol in different rural, urban, and mountain	W. Huang, C. Wu, L. Y. Gao, Y. Gramlich, S. L. Haslett, J. Thornton, F. D. Lopez-Hilfiker, B.H. Lee, J. W.	2024	24 (4)	2607–2624



		environments	Song, H. Saathoff, X. L. Shen, R. Ramisetty, S. N. Tripathi, D. Ganguly, F. Jiang, M. Vallon, S. Schobesberger, T. Yli- Juuti, and C. Mohr			
1782.	Journal of Flow Visualization and Image Processing	Investigation of Flow over NACA0021 Airfoil with Leading-Edge Tubercles Using Transition-based Hybrid RANS/LES Model	A. Mishra and A. De	2023	30 (1)	1–36
1783.	International Journal of Energy for a Clean Environment	On the Self- Starting Comparative Performance Evaluation of Darrieus and Hybrid Hydrokinetic Rotor	G. Saini and A. De	2023	24 (5)	67–91
1784.	Proceedings of the Thermal and Fluids Engineering Summer	Semi-Analytical Solution for Statistical Turbulent	S. Krishnamurti, A. Kumar, S. S. Mondal	2023		1323–1333

	Conference	Boundary Layer over an Isothermal Horizontal Flat Plate	and L. Chandra			
1785.	Water Reuse	Experimental evaluation on the effect of biochar addition with anaerobic digestion of the tannery wastewater to improve biogas production	S. K. Asefa, V.R. Ancha, N.G. Habtu and L.S. Sundar	2023	13 (3)	459–474
1786.	International Journal of Multiphase Flow	Understanding the liquid jet break-up in various regimes at elevated pressure using a compressible VOF-LPT coupled framework	B. Bhatia, T. Johny and A. De	2023	159	104303
1787.	Renewable Energy	Multilayered PCMs-based cooling solution for photovoltaic modules: Modelling and experimental study	V. Ranawade and K.S. Nalwa	2023	216	119136
1788.	Oxford Open Materials Science	Phase evolution and enhanced room temperature	K. Brajesh, S. Ranjan and A. Garg	2023	3 (1)	1-10

		piezoelectric properties response of lead-free Ru-doped BaTiO <sub>3</sub> ceramic				
1789.	Water Reuse	Assessment of carbon neutrality in waste water treatment systems through deep learning algorithm	L. Syam Sundar, H. Almujiabah, A. H. Alshahri and V. R. Ancha	2023	13 (3)	432–447
1790.	AIP Conference Proceedings	Aerodynamic Load Reduction over a Circular Cylinder through Attached Splitter Plates	M. Verma and A. De	2023	2849 (1)	030009
1791.	Oxford Open Materials Science	Bio-based materials for antimicrobial films in food applications: beyond the COVID-19 pandemic era	B. Perumal Pillai, B. Balasubramaniam, R. K. Gupta and A. Tyagi	2023	3 (1)	1-8
1792.	<i>IEEE Energy Conversion Congress and Exposition, ECCE 2023</i>	A Smart Three-Port Converter for Interconnecting Grid, EV, and Solar-PV for Enhancing System Performance	Y. Nikhare, J. Kumar and S. Samanta	2023		39–46

1793.	Oxford Open Materials Science	Investigating the influence of PVDF binder crystallinity on the performance of LiFePO <sub>4</sub> cathode in Li-ion batteries	J. Nishanth, D. Singh, S. Panja, T. M. Chandran, K. Brajesh, S. Omar and K. S. Nalwa	2023	3 (1)	1-8
1794.	AIP Conference Proceedings	Assessment of Reconstruction Schemes and Convective Flux Discretization for Euler Equation	A.A. Ray and A. De	2023	2849 (1)	030007
1795.	RSC Sustainability	N-doped graphene nanosheets-based optical nano switch for the selective detection of guanine and Pb <sup>2+</sup>	V. K. Tripathi, G. S. Das, R. K. Gupta, M. Srivastava and K. M. Tripathi	2023	1 (9)	2319–2327
1796.	Journal of Environmental Chemical Engineering	The rate determining steps and rate equation for the oxidative dry reforming of methane over supported Ni catalyst	A. S. Russel, S. Gupta and G. Deo	2023	11 (5)	110479
1797.	The Journal of Physical Chemistry C	Increase of the Catalytic Activity of Molten Salts by	S. K. Dutta, B. Singh, H. Metiu, and V.	2023	128 (1)	123–128

		Doping: Methane Activation	Agarwal			
1798.	Environmental Science and Pollution Research	MXene-Based Single-Atom Catalysts for Electrochemical Reduction of CO <sub>2</sub> to Hydrocarbon Fuels	A. Athawale, B. M. Abraham, M. V. Jyothirmai and J. K. Singh	2023	31 (1)	1589–1606
1799.	The Journal of Physical Chemistry C	Rate-Enhancing Role of Water in H-BEA and Sn-BEA for Keto-Enol Tautomerization of Acetone: A DFT Study	A. Goyal and V. Agarwal	2023	127 (46)	22618–22628
1800.	Industrial & Engineering Chemistry Research	Flue Gas Reforming of Methane Over a Ni-Al <sub>2</sub> O <sub>3</sub> Catalyst: A Microkinetic Modeling and Experimental Study	S. Gupta, A. S. Russel and G. Deo	2023	62 (46)	19607–19618
1801.	Journal of Renewable and Sustainable Energy	A geospatial integrated multi-criteria approach for assessment of solar and wind energy potentials with economic and	S. K. Saraswat and A. K. Digalwar	2023	15 (6)	066102

		environmental analysis				
1802.	Physics of Fluids	Numerical investigation of supercritical combustion dynamics in a multi-element LOx-methane combustor using flamelet-generated manifold approach	A. Sharma, A. S. K. De and S. S. Kumar	2023	35 (11)	115125
1803.	Materials Science in Semiconductor Processing	Wurtzite nanoparticle ink spray processing for chalcopyrite CuIn(S,Se) <sub>2</sub> photovoltaic absorber layer	M. S. Pradeepkumar, A. Kumar, S. Das, J. Basu and M. I. Ahmad	2023	169	107940
1804.	Environmental Research	Plummeting toxic contaminates from water through phycoremediation: Mechanism, influencing factors and future outlook to enhance the capacity of living and non-living algae	A. Kumar, S. Ponmani, G. K. Sharma, P. Sangavi, A. K. Chaturvedi, A. Singh, S. K. Malyan, S. A. Khan, A. A. Shabnam, D. K. Jigyasu and A. Gull	2023	239	117381

1805.	Physics of Fluids	Performance analysis of vertical-axis wind turbine clusters: Effect of inter-turbine spacing and turbine rotation	G. D. K. Reddy, M. Verma and A. S. K. De	2023	35 (10)	105122
1806.	Chemistry – An Asian Journal	Late-stage Ligand Modification After Coordination Strengthens Stereoselectively Self-Assembled Hemiaminal Ether Complexes	S. Raje, A. Koner, S. Ghosh, R. J. Butcher, L. Mathivathana, M. Sundararajan and R. Angamuthu	2023	18 (20)	e202300706
1807.	International Journal of Green Energy	Attention based Transformer coupled with convoluted neural network for ultra-short- and short-term forecasting of multiple wind farms	S. Mulewa, A. M. Parmar and A. De	2023	21 (6)	1238–1252
1808.	Atmospheric Chemistry and Physics	Nighttime NO emissions strongly suppress chlorine and nitrate radical formation during the winter in Delhi	S. L. Haslett, D. M. Bell, V. Kumar, J. G. Slowik, D. S. Wang, S. Mishra, N. Rastogi, A.	2023	23 (16)	9023–9036

			Singh, D. Ganguly, J. Thornton, F. X. Zheng, Y. Y. Li, W. Nie, Y. C. Liu, W. Ma, C. Yan, M. Kulmala, K. R. Daellenbach, D. Hadden, U. Baltensperger , A. S. H. Prevot, S. N. Tripathi and C. Mohr			
1809.	The Journal of Organic Chemistry	Cascade Cyclizations Triggered by Photochemically Generated Carbamoyl Radicals Derived from Alkyl Amines	G. C. Upreti, T. Singh, D. Chaudhary and A. Singh	2023	88 (16)	11801–11808
1810.	European Journal of Mechanics - B/Fluids	Acoustic characteristics of supersonic planar impinging jets	N. Arya, S. Bhaduri and A. S. K. De	2023	102	56–79
1811.	Organic & Biomolecular	Visible-light mediated, oxygen-	T. Singh, G. C. Upreti, S.	2023	21	6671



	Chemistry	promoted regioselective cross-dehydrogenative coupling of coumarins and dimethylanilines	Arora, H. Chauhan and A. Singh			
1812.	Asian Journal of Organic Chemistry	FeCl <sub>3</sub> Catalyzed Three-Component Synthesis of Spirochromans and Dihydrocoumarins	S. P. Singh, S. Arora and A. Singh	2023	12 (8)	e202300279
1813.	Journal of Solar Energy Engineering, Transactions of the ASME	Simulated Experimental Assessment of a Laboratory-Scale Solar Convective Furnace System	V. D. Kumar, L. Chandra, S. Mukhopadhyay, and R. Shekhar	2023	145 (4)	041011
1814.	Optical Materials (Amst)	Work function modulation and charge transport studies of 100 MeV Au <sup>7+</sup> ions irradiated TiO <sub>2</sub> films for optoelectronic devices	A. Pandey, F. Singh, A. Garg, D. Kanjilal, and L. Kumar	2023	143	114180
1815.	Organic Letters	Photocatalytic, Intermolecular Olefin Alkylcarbofunction	T. Singh, S. R. Nasireddy, G. C. Upreti, S. Arora and	2023	25 (30)	5558–5562

		alization Triggered by Haloalkyl Radicals Generated via Halogen Atom Transfer	A. Singh			
1816.	Journal of Fluid Mechanics	Three-dimensional numerical investigation of a transversely oscillating slotted cylinder and its applications in energy harvesting	M. Verma and A. De	2023	967	A10
1817.	European Journal of Organic Chemistry	Visible Light Mediated Halogen Atom Transfer to Access Polyhalogenated and Deuterated Lactams from Alkyl Halides	S. Arora, T. Singh, U. Mondal, and A. Singh	2023	26 (30)	e202300469
1818.	Chemical Engineering Journal	The kinetics of Ni/Al <sub>2</sub> O <sub>3</sub> and Ni-Fe/Al <sub>2</sub> O <sub>3</sub> catalysts for the CO <sub>2</sub> methanation reaction and the reasons for promotion	J. K. Prabhakar, P. A. Apte and G. Deo	2023	471	144252
1819.	Chemical Communications	Visible light-mediated ring-	P. Garg, T. Singh, and A.	2023	59 (61)	9360–9363

		ablative functionalization of oxazoles: oxidative azidation and demethylative amination	Singh			
1820.	Materials Today Sustainability	A review on clay exfoliation methods and modifications for CO <sub>2</sub> capture application	S. Das, P. Sharma, M. Kumar, R. K. Gupta and H. Sharma	2023	23	100427
1821.	Organic & Biomolecular Chemistry	Annulation of quinone methides with 2-benzylidene dithiolanes: synthesis of spirochroman dithiolanes	S. P. Singh, S. Arora, P. K. Bhardwaj and A. Singh	2023	21 (24)	4962–4966
1822.	Journal of Thermal Analysis and Calorimetry	Effect of chemical treatment on thermal degradation behavior of litchi seed biomass	M. Kumar, R. Yadav, A. K. Patel, M. Bindal, S. N. Upadhyay and P. K. Mishra	2023	148 (14)	6927–6944
1823.	Chemical Engineering Science	Process and catalyst improvements for the dry reforming of methane	P. K. Chaudhary and G. Deo	2023	276	118767

1824.	Progress Materials Science	Recent progress and prospects of NASICON framework electrodes for Na-ion batteries	R. Thirupathi, V. Kumari, S. Chakrabarty and S. Omar	2023	137	101128
1825.	Materials Science and Engineering: B Advanced Functional Solid-State Materials	High-performing supercapacitors using Cr <sub>2</sub> O <sub>3</sub> nanostructures with stable channels-theoretical and experimental insights	S. Kansal, S., J. Halder, D. Mandal, R. Rahul, S. Priya, P. J. De, V. Sharma, A.K. Srivastava, T. Singh and A. Chandra	2023	293	116438
1826.	The Journal of Organic Chemistry	Pd-Catalyzed Photochemical Alkylative Functionalization of C=C and C=N Bonds	G. C. Upreti, T. Singh, K. Khanna and A. Singh	2023	88 (7)	4422–4433
1827.	Solid State Ionics	Interfacial effect on the polarization resistance of SrM <sub>0.1</sub> Mo <sub>0.9</sub> O <sub>3-δ</sub> (M=Mg <sup>2+</sup> , Fe <sup>3+</sup> )/GDC-based composite electrodes	A., Das, S. Kumar, M. B. Suresh and S. Omar	2023	394	116193

1828.	Indian Journal of Microbiology	Novel Biocompatible Green Silver Nanoparticles Efficiently Eliminates Multidrug Resistant Nosocomial Pathogens and Mycobacterium Species	S. Aman, N. Kaur, D. Mittal, D. Sharma, K. Shukla, B. Singh, A. Sharma, S. S. Siwal, V. K. Thakur, H. Joshi, R. Gupta, R. V Saini and A. K. Saini	2023	63 (1)	73–83
1829.	International Journal Hydrogen Energy	Effect of metal amount on the catalytic performance of Ni-Al <sub>2</sub> O <sub>3</sub> catalyst for the Tri-reforming of methane	S. Gupta and G. Deo	2023	48 (14)	5478–5492
1830.	IEEE Transactions on Instrumentation and Measurement	Sequence Current-Based Inrush Detection in High-Permeability Core Transformers	P. Mishra, A. Swain, A. K. Pradhan and P. Bajpai	2023	72	3534509
1831.	Journal of Fluids and Structures	Leading edge vortex dynamics in airfoils: Effect of pitching motion at large amplitudes	P. K. Seshadri, A. Aravind and A. S. K. De	2023	116	103796

1832.	Joule	Coupling covariance matrix adaptation with continuum modeling for determination of kinetic parameters associated with electrochemical CO <sub>2</sub> reduction	Kaitlin Rae M. Corpus, Justin C. Bui, Aditya M. Limaye, Lalit M. Pant, Karthish Manthiram, Adam Z. Weber, Alexis T. Bell	2023	7 (6)	1289-1307
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