

Publications 2022-2023

List of Journal Papers:

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Link of the recognition in UGC enlistment of the Journal/ Link to Journal Homepage
Experimental investigation on the mechanical performance of the Al ₂ O ₃ and ZrO ₂ added Al-Mg-Si alloy for structural applications	Olusegun Adebayo Ogunnsanya, Abayomi Adewale Akinwande, R Raj Mohan, Henry Talabi, M Saravana Kumar, M Vignesh and Abhijit Bhowmik	Mechanical Engineering	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2023	0954-4089	https://journals.sagepub.com/metrics/PIE
A grey-fuzzy based multi-response optimisation study on the friction and wear characteristics of titanium diboride reinforced aluminium matrix composite	Dipankar Dey, Abhijit Bhowmik, and Ajay Biswas	Mechanical Engineering	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering	2023	0954-4054	https://journals.sagepub.com/metrics/PIB

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Tribological characteristics of spark plasma sintered Al-6wt%SiC composite explored by Grey-Fuzzy optimization approach	VSS Venkatesh, PR Ganji, RN Rao, A Bhowmik	Mechanical Engineering	Journal of Materials Engineering and Performance	2023	1059-9495	https://link.springer.com/journal/11665
Assessment of Microstructure and Investigation into the Mechanical Characteristics and Machinability of A356 Aluminum Hybrid Composite Reinforced with SiCp and MWCNTs Fabricated through Rotary Centrifugal and Squeeze Casting Processes	P. Gurusamy, S. Hari Krishna Raj, Biplab Bhattacharjee, Abhijit Bhowmik	Mechanical Engineering	Silicon	2023	Electronic ISSN 1876-9918, Print ISSN 1876-990X	https://link.springer.com/journal/12633
Study of microstructural, machining and tribological behaviour of AA- 6061/SiC	P. Gurusamy, Biplab Bhattacharjee, Hrishikesh Dutta, Abhijit	Mechanical Engineering	Silicon	2023	Electronic ISSN 1876-9918 Print ISSN 1876-990X	https://www.scopus.com/sourceid/19400158637

MMC fabricated through the squeeze casting method and optimized the machining parameters by using Standard deviation-PROMETHEE technique	Bhowmik					
Analysis of Physical, Mechanical and Tribological behavior of Al7075-Fly Ash Composite for Lightweight Applications	Abhijit Bhowmik, Raman Kumar, Atul Babbar, Valentin Romanovski, Sujit Roy, Lokeswar Patnaik, J. Pradeep Kumar & Ahmed Hussien Alawadi	Mechanical Engineering	International Journal on Interactive Design and Manufacturing (IJIDeM)	2023	1955-2513	https://www.scopus.com/sourceid/12000154536
Performance Evaluation of Nano-Material Stabilized Pond Ash as Subbase Layer Material for Roadway Pavement	Aditya Shankar Ghosh, Abhishek Roy and Dr. Tapash Kumar Roy	C.E	Materials Today: Proceedings on 2 nd International Conference of	2023	ISSN: 2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings

			Constructi on Materials and Structures			
New Frequency Domain Framework of Inverse Ground Response Analysis for the Determination of Dynamic Soil Properties of Multilayered System	Joy Kumar Mondal, Abhishek Kumar	CE	<i>Indian Geotechnical Journal</i>	2023	ISSN: 0971-9555	https://doi.org/10.1007/s40098-023-00791-8
A new framework of inverse ground response analysis for the determination of dynamic soil properties of two-layered system	Joy Kumar Mondal, Abhishek Kumar	CE	International Journal of Geomechanics	2023	ISSN: 1943-5622	https://doi.org/10.1061/IJGNAL.GMENG-8520
Design and development of fusion-based expert system for multimodal biometric recognition with facemask authentication	Arindam Mondal, and Sahadev Roy	Electrical Engineering	International Journal of System of Systems Engineering Publisher: I nderscience Publishers	2023	ISSN:1748-0671 E- ISSN:1748-068X	UGC-CARE List Group II Journal (Scopus) https://www.scopus.com/sourceid/19500157056
Design and Implementation of	Sujay Kumar Dolai,	Electrical Engineerin	Facta universitati	2023	ISSN :0353-3670	UGC-CARE List Group II Journal (SCI)

Fractional-Order Controller in Delta Domain	Arindam Mondal, Prasanta Sarkar	g	s - series: Electronics and Energetics		eISSN : 2217-5997	https://www.webofscience.com/wos/woscc/full-record/WOS:001025517400003
Design and development of dynamic gesture recognition system based on deep neural network for driver assistive devices	Arindam Mondal and Sahadev Roy	Electrical Engineering	International Journal of System of Systems Engineering Publisher: Indercience Publishers	2023	ISSN:1748-0671 E-ISSN:1748-068X	UGC-CARE List Group II Journal (Scopus) https://www.scopus.com/sourceid/19500157056
Efficient and Lead-Free Perovskite Solar Cells Based on Defect-Ordered Methyl Ammonium Antimony Iodide.	Prithick Saha; Sangeeta Singh; Sanjib Bhattacharya	ECE	IEEE Transactions on Electron Devices	2023	Print ISSN: 0018-9383 ; Electronic ISSN: 1557-9646	https://mjl.clarivate.com/search-results?issn=0018-9383&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal
Higher Efficiency and Stability in Planar Homojunction Hybrid Antimony (MA3Sb2I9)- Based Perovskite Solar Cells	Prithick Saha; Sangeeta Singh; Sanjib Bhattacharya	ECE	IEEE Journal of Quantum Electronics	2023	Print ISSN: 0018-9197; Electronic ISSN: 1558-1713	https://mjl.clarivate.com/search-results?issn=0018-9197&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal
Application of a Trellis Coded	Trilochan Patra, Swarup	ECE	Indian Journal of	January,2023	ISSN NO: 0974-6846	https://mjl.clarivate.com/search-results?issn=0974-

Modulation to Ameliorate the 5G Communication for Tropical Regions	Kumar Mitra		Science and Technology			6846&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal
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List of Book Chapters in edited volumes/books published and papers published in national/international conference proceedings

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
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1	Aditya Shankar Ghosh and Dr. Tapash Kumar Roy	Soil Behavior and Characterization of Geomaterials	Elemental Assessment of Pond Ash for Evaluating its Applications as a Subbase Material for Hardstand	Indian Geotechnical Conference, 2021	Lecture Notes in Civil Engineering, vol 296	National	2022	Print ISBN 978-981-19-6512-8 Online ISBN 978-981-19-6513-5	Dream Institute of Technology	Springer Nature
2	Aditya Shankar Ghosh and Dr. Tapash Kumar Roy	REVISITING STRATEGIES FOR SUSTAINABLE DEVELOPMENT: an eConSus Book Series Vol. 2	Sustainable Industrial Waste Management: Pond Ash as a Sustainable Alternative Foundation Material for Pavement Subbase Construction	NA	NA	International	2022	ISBN: 978-93-94727-41-0	Dream Institute of Technology	Redshine Publications
3	Manasi Das, Agniva Dutta	NA	ECG DENOISING USING ADAPTIV	IEEE International Conference on	IEEE International Conference on	International	2022	Electronic ISBN:978-1-6654-	Dream Institute of Technology	IEEE

			E UNSCENT ED KALMAN FILTER	Interdisci plinary Approach es in Technolo gy and Managem ent for Social Innovatio n (IATMSI- 2022)	Interdisci plinary Approach es in Technolo gy and Managem ent for Social Innovatio n (IATMSI- 2022)			7719-2 Print on Demand (PoD) ISBN:97 8-1- 6654- 7720-8		
4	Aditya Shankar Ghosh, Abhishek Roy and Dr. Tapash Kumar Roy	Recent Trends in Transportat ion Infrastructu re, Volume 1	Utilization of Lime Stabilized Pond Ash and Sand Mix Using Nanomater ials for the Subbase Course of Industrial Pavements	Internatio nal Conferen ce on Transport ation Infrastruc ture Projects : Conceptio n to Execution TIPCE 2022:	Internatio nal Conferen ce on Transport ation Infrastruc ture Projects : Conceptio n to Execution TIPCE 2022:	Internati onal	2023	Print ISBN 978- 981-99- 3141-5 Online ISBN 978- 981-99- 3142-2	Dream Institut e of Techno logy	Spring er Nature
5	Asmita Poddar	Lithium Ion Glassy Electrolytes	Electrodes	NA	NA	NA	2023	Hardcov er ISBN 978- 981-19- 3268-7 Softcove	Dream Institut e of Techno logy	Spring er Singap ore

								r ISBN 978-981-19-3271-7 eBook ISBN 978-981-19-3269-4		
6	Aditya Shankar Ghosh, Abhishek Roy and Dr. Tapash Kumar Roy	Recent Trends in Transportation Infrastructure, Volume 1	Utilization of Lime Stabilized Pond Ash and Sand Mix Using Nanomaterials for the Subbase Course of Industrial Pavements	International Conference on Transportation Infrastructure Projects : Conception to Execution TIPCE 2022:	International Conference on Transportation Infrastructure Projects : Conception to Execution TIPCE 2022:	International	2023	Print ISBN 978-981-99-3141-5 Online ISBN 978-981-99-3142-2	Dream Institute of Technology	Springer Nature