



List of All ECSoE Publications
(Journals / Conferences / Book Chapters / Patents)

Journals

2023

1. Zoheb Nawaz Md, Mohan S C, **Sri Kalyana Rama Jyosyula**, "Development of low-cost base isolation technique using multi-criteria optimization and its application to masonry building", *Soil Dynamics and Earthquake Engineering*, Volume 172, 2023, 108024, ISSN 0267-7261, <https://doi.org/10.1016/j.soildyn.2023.108024>
2. Nitika Tiwari, Sankha Chakraborty, Kundan Samal, Sanjib Moulick, Benu Gopal Mohapatra, Sasmita Samanta, P.K. Mohapatra, Kali Sanjay, **Jayato Nayak**, Shirsendu Banerjee, Suraj K. Tripathy, "Photocatalytic degradation of malachite green using TiO₂ and ZnO impregnated on fecal sludge derived biochar", *Journal of the Taiwan Institute of Chemical Engineers*, Volume 145, 2023, 104800, ISSN 1876-1070, <https://doi.org/10.1016/j.jtice.2023.104800>
3. **Nayak, J.**; Chakraborty, S. "Production of Acetic Acid and Whey Protein from Cheese Whey in a Hybrid Reactor under Response Surface Optimized Conditions" *Fine Chemical Engineering* 2023, 4, 58-73. <https://doi.org/10.37256/fce.4120232364>
4. Ramesh Kumar, Aradhana Basu, Bhaskar Bishayee, Rishya Prava Chatterjee, Meeraambika Behera, Wei Lun Ang, Parimal Pal, Maulin Shah, Suraj K. Tripathy, Selvaraj Ambika, V. Aruna Janani, Sankha Chakraborty, **Jayato Nayak**, Byong-Hun Jeon, "Management of tannery waste effluents towards the reclamation of clean water using an integrated membrane system: A state-of-the-art review", *Environmental Research*, Volume 229, 2023, 115881, ISSN 0013-9351, <https://doi.org/10.1016/j.envres.2023.115881>
5. Biswajit Ruj, **Jayato Nayak**, Swarup Ranjan Debbarma, Preetam Kumar Mondal, Bhaskar Bishayee, Rishya Prava Chatterjee & Sankha Chakraborty (2023) "Reutilization of ferro-arsenic waste sludge for the development of concrete blocks through solidification: conservation of natural aggregates with policy suggestion", *Biotechnology and Genetic Engineering Reviews*, DOI: 10.1080/02648725.2023.2182040
6. Jen-Jia Lin, Tzu-Yun Lin, Bhadradi Raghuram Kadali, **Saladi S.V. Subbarao**, "Zone-based TOD evaluation considering interdependences among criteria and zones", *Transport Policy*, Volume 133, 2023, Pages 108-119, ISSN 0967-070X, <https://doi.org/10.1016/j.tranpol.2023.01.011>
7. **Bhattacharjee, Reetuparna**, and Riya Sil. "Managing Green II: A Revolution For Crafting The Idea Of Smart City In A Different Way." *Int. j. of Social Science and Economic Research*, vol. 8, no. 4, Apr. 2023, pp. 765-778, <https://doi.org/10.46609/IJSSER.2023.v08i04.016>
8. Bhargav Kumar Karnamprabhakara, **Hariprasad Chennarapu**, Umashankar Balunaini et al. "Modified axial pullout resistance factors of geostrip and metal strip reinforcements in sand considering transverse pull effects", 02 March 2023, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-2630871/v1>]
9. S. Kumar, **M.A. Khan**, Brian L. Wardle, and J.N. Reddy, "Pullout characteristics of functionally graded and degraded adhesive anchors". *European Journal of Mechanics - A/Solids*, page 104950, 2023. <https://doi.org/10.1016/j.euromechsol.2023.104950>
10. Martins, J.T. and **Hukampal Singh, S.** (2023), "Boundary organisations in regional innovation systems: traversing knowledge boundaries for industry 4.0 regional transformations"; *R&D Management*. <https://doi.org/10.1111/radm.12573>
11. **Avinash Gupta** and **K. Ranjith***, Antiplane spectral boundary integral equation method for an interface between a layer and a half-plane, *Journal of the Mechanics and Physics of Solids*, 171, 105170 (2023). <https://doi.org/10.1016/j.jmps.2022.105170>
12. **M. A. Khan**, R. Tipireddy, B. Dattaguru, and S. Kumar (2023). Stochastic modeling of functionally graded double-lap adhesive joints. *Mechanics of Materials*, page 104553. ISSN 0167-6636. I.F. 4.137 <https://doi.org/10.1016/j.mechmat.2022.104553>
13. Rupali, Blessy Joseph, Sabu Thomas, Newton Sen, André Paschold, Wolfgang H. Binder and **Sonu Kumar**, "Bioinspired Synthetic Polymers-Based Inhibitors of Alzheimer's Amyloid- β Peptide Aggregation"; *Polymer Chemistry*, 2023, DOI: 10.1039/D2PY01217K
14. **Prisilla Jayanthi**, Iyyanki Muralikrishna "Sustainable Development Goals 3.9: Environmental Pollution with Devices" *International Journal for Research Trends and Innovation*; Volume 8, Issue 3; <https://www.ijrti.org/papers/IJRTI2303004.pdf>

15. Misra, S., Buehner, N.A., **Singh, A.** et al., "Female factors modulate Sex Peptide's association with sperm in *Drosophila melanogaster*"; *BMC Biol* 20, 279 (2022). <https://doi.org/10.1186/s12915-022-01465-2>
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19. **S. Madichetty** and S. Mishra, "Cyber Attack Detection and Correction Mechanisms in a Distributed DC Microgrid," in *IEEE Transactions on Power Electronics*, vol. 37, no. 2, pp. 1476-1485, Feb. 2022, doi: 10.1109/TPEL.2021.3106808.
20. **S. Madichetty**, **A. J. Neroth**, S. Mishra and B. C. Babu, "Route Towards Road Freight Electrification in India: Examining Battery Electric Truck Powertrain and Energy Consumption," in *Chinese Journal of Electrical Engineering*, vol. 8, no. 3, pp. 57-75, September 2022, doi: 10.23919/CJEE.2022.000026.
21. **Nayak, J.**, Basu, A., Dey, P. et al. "Transformation of agro-biomass into vanillin through novel membrane integrated value-addition process: a state-of-art review". *Biomass Conv. Bioref.* (2022). <https://doi.org/10.1007/s13399-022-03283-6>
22. **Dipti Mishra**, Satish Kumar Singh, Rajat Kumar Singh, "Deep CNN based Image Compression with Redundancy Minimization via Attention Guidance", *Neurocomputing*, Volume 507, 2022, Pages 397-411, ISSN 0925-2312, <https://doi.org/10.1016/j.neucom.2022.08.009>
23. Sidhu, R, D., Vamsi K, **Chennarapu Hariprasad**, Umashankar, B. (2022). Evaluation of Improved Moduli of Triaxial-Geogrid Stabilized Sandy Soil using LWD and PLT tests. (Accepted - Ground Improvement - Proceeding of the Institute of Civil engineers (ICE)).-Q2, ESCI and Scopus indexed.
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26. Vatsalya Sharma, Vinayak Eswaran, **Debasis Chakraborty**, "Influence of isolator section on the shock augmented mixing in SCRAMJET engine", *Aerospace Science and Technology*, Volume 130, 2022, 107900, ISSN 1270-9638, <https://doi.org/10.1016/j.ast.2022.107900>
27. **Anil Annadi**, **Murtaza Bohra**, Vidyadhar Singh, "Modulations in electrical properties of sputter deposited vanadium oxide thin films: Implication for electronic device applications", *Thin Solid Films*, Volume 758, 2022, 139451, ISSN 0040-6090, <https://doi.org/10.1016/j.tsf.2022.139451>.
28. Pu Mao, Gang Lu, Qingsong Yan, **Anil Annadi**, Yongguang Guo, Zepeng Wang, Zhiyong Liu, Bing Xie, Lixue Zhang, "Electrodes influence on the characterization of the electrical properties of colossal permittivity CaCu₃Ti₄O₁₂ ceramics", *Ceramics International*, 2022, ISSN 0272-8842, <https://doi.org/10.1016/j.ceramint.2022.07.157>.
29. **Abhijit Bhattacharyya**, Tony L. Schmitz, Scott W.T. Payne, **Palash Roy Choudhury**, John K. Schueller, "Introducing engineering undergraduates to CNC machine tool error compensation", *Advances in Industrial and Manufacturing Engineering*, Volume 5, 2022, 100089 <https://doi.org/10.1016/j.aime.2022.100089>

30. Scott W. T. Payne, **Palash Roy Choudhury**, John K. Schueller & **Abhijit Bhattacharyya** "Experimental verification of mechanistic force models for endmilling: the impact of the size effect on cutting coefficients". *The International Journal of Advanced Manufacturing Technology* (2022). <https://doi.org/10.1007/s00170-022-09622-1>
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35. Pattabhi Ramaiah Budarapu, Kumar S, **M.A. Khan**, Rammohan B, Cosmin Anitescu "Engineered interphase mechanics in single lap joints: Analytical and PINN formulations," *International Journal of Computational Methods*. MS number: IJCM-D-21-00117-accepted. I.F. 1.734
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38. Sai Kiran Nalla and **Sebastian Uppapalli**, Effects of Gas embolism on pulsatile blood flow in human carotid artery, *Journal of Biomechanical Engineering* (Accepted, 27/04/2022)
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40. **Chennarapu, H.**, Malapati, K., Mouli, S. and **Sidhu Ramulu**. "The analysis and design of MSE wall by considering variation of friction angle of backfill material along the depth". *Innov. Infrastruct. Solut.* 7, 44 (2022). <https://doi.org/10.1007/s41062-021-00647-1>
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1. Neeraj Kumar Pradhan, Arindrajit Choudhary, **Debasis Chakraborty**, Neeraj Kumbhakarna, "Modified Multiflame Model for AP-HTPB Composite Propellant Combustion", Paper accepted for oral presentation in 14th Asia-Pacific Conference on Combustion, Kaohsiung Exhibition Center, Kaohsiung, Taiwan, 14th-18th May 2023.
2. Vatsalya Sharma, Vinayak Eswaran and **Debasis Chakraborty**: "Numerical Study of Maneuverability Control in High Speed Aero-vehicles using Transverse Sonic Jet Injectors", Paper accepted for in-person presentation in AIAA Aviation forum 2023.

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3. **S. S. Koduru**, **V. S. P. Machina** and **S. Madichetty**, "Real-Time Implementation of Deep Learning Technique in Microcontroller-Based DC-DC Boost Converter- A Design Approach," 2022 IEEE Delhi Section Conference (DELCON), 2022, pp. 1-6, doi: 10.1109/DELCON54057.2022.9753325.
4. **S. P. C. Machina**, **S. S. Koduru** and **S. Madichetty**, "Solar Energy Forecasting Using Deep Learning Techniques," 2022 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC), 2022, pp. 1-6, doi: 10.1109/PARC52418.2022.9726605.
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6. **Sebastian Uppapalli** and **Jayasri Dontabhaktuni**, "Faceted charged colloids in nematic liquid crystals in microchannels", ILCC 2020 topic E, Lisbon, Portugal (July-2022) (Accepted - March 2022)
7. **Bompelly R.**, and **Pokkunuri P.**, "Numerical Prediction of NO_x Emissions from Industrial Burners". Accepted to 27th National Conference on Internal Combustion Engines and Combustion (NCICEC 2021), to be held 04 - 11 November, 2022 at VIT, Vellore
8. **Sreejan Alapati**, **Deep Seth**, "Testing of Different Strings for their Usability in Actuation of Exosuits", HCII2022, (Accepted for publication)
9. **Paromita Bose**, "I am the battered woman, but he is the one who is playing the role of the victim": Reading Meena Kandasamy's When I Hit You, as a 'terrifying and triumphant' narrative. International Conference on "Cartographies of Gender Based Violence: Literary Reflections from South Asia and Beyond." IIT Patna and Shastri Indo Canadian Institute. 12-13 March 2022.
10. **Deepti Avirneni**, **Abhishek Kumar Bondada** and **Semanth Reddy Bommu**, (2022), "Investigating Mechanical and Hydraulic Properties of Porous Concrete Pavements", 2nd International Conference on Transportation Infrastructure Projects: Conception to Execution, Transportation Engineering Group, Department of Civil Engineering, IIT Roorkee. (Accepted)
11. **Lakshmi Thotakura**, **Ganesh Babu Kodeboyina**, **Deepti Avirneni** and Sankar Kumar Reddy Pullalacheruvu (2022), "Sustainability of Infrastructure - The Need for a Reassessment", The 1st International Online Conference on Infrastructures, IOCC, MDPI.
12. **Joseph Rohan**, **Sunny Rai**, **Prakruti S. Thakur**, & **M Abdul Khaliq**. (2022). Pandemic, People and Pattern of needs: Emerging trends in Indian society during COVID-19. In 8th International Conference on Computational Social Science. The University of Chicago Booth. July 17-19, 2022, Chicago, USA.
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