



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

Journals

2022

1. **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.
2. **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.
3. **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>
4. **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>
5. Lokeswara Reddy Poreddy, Manoj Kumar Pathapadu, Cherreddy Navyatha, **Jayaprakash Vemuri**, Rajaram Chenna, "Correlation analysis between ground motion parameters and seismic damage of buildings for near-field ground motions", Natural Hazards Research, Volume 2, Issue 3, 2022, Pages 202-209, ISSN 2666-5921, <https://doi.org/10.1016/j.nhres.2022.08.002>
6. Vivek Kishanlal Bhati and **Debasis Chakraborty**, "Numerical Exploration of Transverse Sonic Jet in Hypersonic Cross-flow", Journal of Aerospace Sciences and Technologies, Volume 74, Number 3, pp 143-150, August 2022.
7. 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>
8. **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>.
9. 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>.
10. **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>
11. 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>
12. **Venugopal, Mandala**, **Mohd Ataulah Khan** and **Jayaprakash Vemuri**. "Statistical analyses of hooked-end steel fibers in concrete." Materials Today: Proceedings (2022), Volume 61, Part 2, 2022, Pages 286-296, ISSN 2214-7853, CiteScore 2.3. <https://doi.org/10.1016/j.matpr.2021.09.432>
13. **Kishore, Y. S. N.**, **Nadimpalli, S. G. D.**, **Potnuru, A. K.**, **Vemuri, J.**, & **Khan, M. A.** (2022). "Statistical analysis of sustainable geopolymer concrete", Materials Today: Proceedings, Volume 61, Part 2, 2022, Pages 212-223, ISSN 2214-7853, CiteScore 2.3. <https://doi.org/10.1016/j.matpr.2021.08.129>
14. **Kailash Kumar Singaram**, **Mohd Ataulah Khan**, **V. Talakokula**, "Statistical analysis of fly ash and slag blended geopolymer concrete", Materials Today: Proceedings, Volume 61, Part 2, 2022, Pages 466-476. <https://doi.org/10.1016/j.matpr.2021.12.026>
15. **M. A. Khan**, Brian L. Wardle, S Kumar "Elastic solutions for stresses in compliance-tailored adhesive anchors", International Journal of Adhesion and Adhesives, article in-press. I.F. 3.848. <https://doi.org/10.1016/j.ijadhadh.2022.103227>
16. 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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19. **Duddu, S.R., Chennarapu, H.**, "Quality control of compaction with lightweight deflectometer (LWD) device: a state-of-art". *Geo-Engineering* 13, 6 (2022). <https://doi.org/10.1186/s40703-021-00171-2>
20. **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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22. Mounika, G., Baskar, R. & **Sri Kalyana Rama, J.** "Rice husk ash as a potential supplementary cementitious material in concrete solution towards sustainable construction". *Innov. Infrastruct. Solut.* 7, 51 (2022). <https://doi.org/10.1007/s41062-021-00643-5>
23. **S. Raghunathan**, and U. D. Priyakumar, "Molecular representations for machine learning applications in chemistry", *Int J Quantum Chem.* 122, e26870 (2022) <https://doi.org/10.1002/qua.26870>
24. Yuvaraj Dhandapani, **Talakokula Visalakshi** et al., "Durability performance of binary and ternary blended cementitious systems with calcined clay: a RILEM TC 282 CCL review", *Materials and Structures journal*, 55, 145 (2022) Impact Factor: 3.427; <https://doi.org/10.1617/s11527-022-01974-0>
25. Vanoutrive, H., Van den Heede, P., Alderete, N., **Talakokula Visalakshi** et al. Report of RILEM TC 281-CCC: outcomes of a round robin on the resistance to accelerated carbonation of Portland, Portland-fly ash and blast-furnace blended cements. *Mater Struct* 55, 99 (2022). <https://doi.org/10.1617/s11527-022-01927-7> ; Impact Factor: 3.427
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29. Subhajt Karmakar, Deepak Kumar, Ravendra Kumar Varshney, and **Dibakar Roy Chowdhury**, "Magneto spectroscopy of terahertz surface plasmons in subwavelength perforated superlattice thin-films", *Journal of Applied Physics* 131, 223102 (2022) <https://doi.org/10.1063/5.0090592>
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33. Wani F, **Khan M, Vemuri J** (2022), "2D Nonlinear Finite Element Analysis of Reinforced Concrete Beams using Total Strain Crack Model", *Materials Today: Proceedings*, Elsevier, (Scopus Indexed)
34. **S. Madichetty**, Y. V. S. Manoj, S. A. Kareem and S. Mishra, "A Novel High-Speed Sensorless Faulty Panel Detection Technique for an SPV String/Array: An accurate and cost-effective approach for SPV industry," in *IEEE Power Electronics Magazine*, vol. 9, no. 1, pp. 33-39, March 2022, doi: 10.1109/MPEL.2022.3140985.
35. **Biswarup Biswas**, Harish Kumar and Deepak Bhoriya, "Entropy stable discontinuous Galerkin schemes for the special relativistic hydrodynamics equations", *Computers & Mathematics with Applications*, Volume 112, 2022, Pages 55-75, ISSN 0898-1221, <https://doi.org/10.1016/j.camwa.2022.02.019> , Impact Factor: 3.476

36. **Sanjukta Das** "Exact controllability and continuous dependence of solution of a conformable fractional control system" *Mathematical Analysis and its Contemporary Applications* (2022); doi: 10.30495/maca.2022.1947815.1042
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38. **Bhaskar Tamma**, Shankar Venugopal "Designing a course on Cutting Edge Mobility Technology", article on *Mobility Engineer 2030*, SAE Mobility Magazine, Pg: 19-26, Vol : 8 Issue : 3, July - September 2021
39. **Subbarao, SSV.**, Raghuram Kadali (2021). "Impact of COVID-19 pandemic lockdown on public transportation system and strategic plans to improve PT ridership: A review". *Innovative Infrastructure Solutions*, Vol. 7, Issue 1, Springer <https://doi.org/10.1007/s41062-021-00693-9>
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3. **Sreejan Alapati**, **Deep Seth**, "Testing of Different Strings for their Usability in Actuation of Exosuits", HCII2022, (Accepted for publication)
4. **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.
5. **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)
6. **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.
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