



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

Journals

2021

1. **Ranjith, K.**, "Love Wave or Slip Wave?." ASME. J. Appl. Mech. December 2021; 88(12): 124501. <https://doi.org/10.1115/1.4052105>
2. **T. Veeraiah**, K. Harish Kumar, "Energy-Efficient Mac Protocol for Small Satellites Using Doubly Cognitive Approach-A Comprehensive Investigation", DE, pp. 15621-15629, Sep. 2021.
3. **Hariprasad Chennarapu**, Karthik Malapati, Sasanka Mouli and Sidhu Ramulu. The Analysis and Design of MSE wall by Considering Variable Angle of shearing Resistance of Backfill Along the Depth. Innovative Infrastructure Solutions, Springer (2021) (accepted).
4. **Hariprasad Chennarapu**, Laxmi Manisha Gandham, Hima Sankari Maddula, Mrudula Meriga, and Raval Ratnam. "Stiffness Based Approach of Pullout Resistance Factors of Reinforcements Embedded in Soil." Proceedings of the Institution of Civil Engineers-Ground Improvement (2021): 1-24. doi: 10.1680/jgrim.20.00077
5. **S Madichetty**, Avram John and Sukumar Mishra, "Route Towards Road Freight Electrification in India: Examining Battery Electric Truck Powertrain and Energy Consumption" is accepted for publication in IEEE- CJEE Sep-2021 published by IEEE
6. **S. Madichetty**, S Mishra and Avram John, " Maximum Power Point in a Single Step: A Novel Method for PV Industry (Game Changer for SPV Systems)" is accepted for publication in IEEE Power Electronics Magazine - Sep 2021 issue
7. **S. M. Chetty** and S. Mishra, "Cyber Attack Detection and Correction Mechanism in Distributed DC Microgrid," in IEEE Transactions on Power Electronics, doi: 10.1109/TPEL.2021.3106808.
8. Patra, S.; **Madichetty, S.**; Basu, M. "Development of a Smart Energy Community by Coupling Neighbouring Community Microgrids for Enhanced Power Sharing Using Customised Droop Control", Energies 2021, 14, 5383. <https://doi.org/10.3390/en14175383>
9. Rudra Majhi, Dinesh Kumar Singha, **K. N. Deepthi**, and Rukmani Mohanta, "Constraining CPT violation with Hyper-Kamiokande and ESSnuSB" Phys. Rev. D 104, 5, 055002, Sep 2021; American Physical Society. doi: 10.1103/PhysRevD.104.055002
10. **R. Basu**, "An Iterative scheme for the oscillation criteria of a non-linear delay differential equation with several deviating arguments", Asian-European Journal of Mathematics (AEJM); 2021 (Accepted)
11. Deepak Kumar, **Koijam Monika Devi**, Ranjan Kumar, **Dibakar Roy Chowdhury**, "Dynamically tunable slow light characteristics in graphene based terahertz metasurfaces", Optics Communications, Volume 491, (2021), 126949, ISSN 0030-4018, <https://doi.org/10.1016/j.optcom.2021.126949>
12. P. Jha, A. Tiwari, **N. Bharill**, M. Ratnaparkhe, M. Mounika, and N. Nagendra, "Scalable Incremental Fuzzy Consensus Clustering Algorithm for Handling Big Data", Soft Computing, springer, Vol. 25, pp. 8703-8719, 2021, doi: <https://doi.org/10.1007/s00500-021-05733-1> [SCIE Index, Impact Factor 3.643]
13. P. Jha, A. Tiwari, **N. Bharill**, M. Ratnaparkhe, M. Mounika and N. Nagendra, "Apache Spark Based Kernelized Fuzzy Clustering Framework for Single Nucleotide Polymorphism Sequence Analysis", Computational Biology and Chemistry Elsevier, vol. 92, pp. 107454 -107466, (2021) [SCI Index, Impact Factor: 1.85]
14. **Prakash J, Satyanarayana C.** "Axisymmetric Slow Motion of a Porous Spherical Particle in a Viscous Fluid Using Time Fractional Navier-Stokes Equation". Colloids and Interfaces. 2021; 5(2):24. <https://doi.org/10.3390/colloids5020024>
15. **Bhattacharyya, A.**, Schueller, J. K., Mann, B. P., Schmitz, T., and Gomez, M. (2021). "Uncertainty propagation in through an empirical model of cutting forces in endmilling". Journal of Manufacturing Science and Engineering, July 2021, 143(7):071002. doi: <https://doi.org/10.1115/1.4049508> (SCI Indexed, 2020 impact score 3.38, Scopus indexed: SourcerecordID 20966, 2020 citescore 7.4)
16. **K. C. Bulusu**, H. Shaiek, and D. Roviras, "HPA Linearization for Next Generation Broadcasting Systems with Fast Convergence-Digital Predistortion", IEEE Transactions on Broadcasting, 2021 (doi: 10.1109/TBC.2021.3081925) [SCI, Impact Factor: 3.419].

17. **Chaitanya Ruhatiya, Ruthvik Gandra, P Kondaiah, Kura Manivas**, Aditya Samhith, Liang Gao, Jasmine Siu Lee Lam and Akhil Garg, "Intelligent optimization of bioleaching process for waste lithium-ion batteries: An application of support vector regression approach", *Int. J. Energy Res.*, Vol. 45, pp. 6152-6162 (2021)
18. **Paromita Bose**, "Learning and Unlearning in English Classroom", Think Pieces Series No. 18. Education.SouthAsia (<https://educationsouthasia.web.ox.ac.uk/thinkpiece18>); 2021
19. **Paromita Bose**, "Negotiating the Stage and the World: The Life Writings of Binodini Dasi." *Samyukta: A Journal of Gender and Culture*. Volume 6. No. 1; 2021
20. Y.S.N. Kishore, Sai Geeta Devi Nadimpalli, Ashish Kumar Potnuru, **Jayaprakash Vemuri, Mohd Ataulah Khan**, "Statistical analysis of sustainable geopolymer concrete", *Materials Today: Proceedings*, 2021, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.08.129>.
21. Venugopal Mandala, **Mohd Ataulah Khan, Jayaprakash Vemuri**, "Statistical analysis of hooked-end fibers in concrete", *Materials today: proceedings* (2021 in-press).
22. Sukhvinder Kaur, Subhajit Karmakar, K. Monika Devi, Ravendra K. Varshney, and **Dibakar Roy Chowdhury**, "Ultrasensitive Terahertz sensing with broadside coupled polarization insensitive graphene metamaterial cavities", *Optik*, 248, 168073 (2021)
23. Subhash Nimanpore, Animesh Pandey, G Singh, B P Singh, **Dibakar Roy Chowdhury**, Y U Jeong, Rina Sharma, Sudhir Hosale, and Mukesh Jewariya "Investigation of dynamical optical study of Bi₂Te₃ topological insulators thin film based on MWCNT flexible paper using terahertz spectroscopy", *Optical materials*, 121, 111490 (2021)
24. Debabrata Nayak, N Vijayan, Manju Kumari, Pargam Vashishtha, Sudha Yadav, Mukesh Jewariya, **Dibakar Roy Chowdhury**, Govind Gupta, and R. P. Pant , "Elemental, Optical, and Time-Domain Terahertz Spectroscopy Studies on Methyl p-Hydroxybenzoate Single Crystal for THz Applications", *Journal of Electronic Materials*, 50, 6121 (2021)
25. Sudha Yadav, Manju Kumari, Debabrata Nayak, Sabyasachi Banerjee, Naghma Khan, Subhash Nimanpore, Girija Moona, Rina Sharma, Bhupendra K Sharma, **Dibakar Roy Chowdhury**, N Vijayan, and Mukesh Jewariya, "Growth and characterization of single crystals of L-Histidine Hydrochloride Monohydrate for nonlinear optical applications", *Journal of Electronic Materials*, 49, 7502 (2021)
26. Subhajit Karmakar, Deepak Kumar, **Bishnu P Pal**, Ravendra Varshney, and **Dibakar Roy Chowdhury** "Magnetic wires: transverse magnetism in one-dimensional plasmonic system", *Optics Letters*, 46, 1365 (2021)

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29. **Sanjukta Das**, "Controllability of a class of conformable fractional differential system", *Journal of Control and Decision*, Taylor Francis Group; (2020); <https://doi.org/10.1080/23307706.2020.1857314>
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33. **K. N. Deepthi**, Srubabati Goswami, Vishnudath K. N., and Tanmay Kumar Poddar, "Implications of the dark large mixing angle solution and a fourth sterile neutrino for neutrinoless double beta decay", *Phys. Rev. D* 102, 015020, (July 2020); doi: 10.1103/PhysRevD.102.015020
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38. **N. Chamakuri** and P. Kügler. "A coupled monodomain solver with optimal memory usage for the simulation of cardiac wave propagation", *Applied Mathematics and Computation*, 378:125212, (2020).
39. V. Dhanya Varma, **Nagaiah Chamakuri**, Suresh Kumar Nadupuri, "Discontinuous Galerkin solution of the convection-diffusion-reaction equations in fluidized beds", *Applied Numerical Mathematics*, Volume 153, Pages 188-201, (2020)
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50. **S M Chetty**, M Rayguru, S Mishra, "Battery Super-Capacitor Hybrid System for Electrical Vehicle Transportation's Systems-An Energy Integrated Approach", *IET Energy Systems Integration*, 2020 - IET (In press)
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4. **Paromita Bose** "From Amar Chitra Katha's Babasaheb Ambedkar (He Dared to Fight) to Bhimayana (Experiences of Untouchability)- Narrating Lives" at "Decolonising the Panel; Deconstructing the Gutter": International Conference on Postcolonial Studies in Comics and Graphic Narratives in South Asia. IIT Patna and Postcolonial Studies Association, UK. 25-26th September, 2021.
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