



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

## Journals

2024

1. **Kumar, Sonu**, Gaddala, Raviteja, Thomas, Sabu, Schumacher, Joshua, Schönherr, Holger (2024), "Green synthesis of polymer materials via enzyme- initiated RAFT polymerization", Polymer Chemistry, Polym. Chem. The Royal Society of Chemistry, 1759-9954, 10.1039/D4PY00294F, <http://dx.doi.org/10.1039/D4PY00294F>
2. **Wani FM, Vemuri J** and Rajaram C (2024). Strong ground motion characteristics observed in the February 6, 2023 MW7.7 Türkiye earthquake. Earthq Sci 37(3): 241–266,. DOI: 10.1016/j.eqs.2024.03.005
3. T. R Desai, Asshi Gupta, **C. Gurnani**, "Nanostructured NiS<sub>2</sub> based Flexible Smart Sensors for Human Respiration Monitoring, Royal Society Phil. Trans. A. 2024, Just Accepted, 10.1098/rsta.2023-0323.
4. Singh A; Modi SK; Joshi P; Nenavathu BP; **Singh MS**; Verma S; Hatshan MR. (2024) Sunlight mediated removal of toxic pollutants from Yamuna wastewater using efficient nano TeO<sub>2</sub>-ZnO nanocomposites. Chemosphere. 140658. (IF: 8.9)
5. **Kumar V**, Nadarajan S, Kumari A, Cohen Y, Klingbel T, Bar E, Lewinsohn E, Elad Y, Poverenov E, Oren-Shamir M (2024). Phenylalanine encapsulation into an amphiphilic carboxymethyl cellulose-derivative enhanced plant uptake and metabolism efficiency. Postharvest Biology and Technology 211: 112812. (IF: 7.0)
6. **Kumar V**, Nadarajan S, Boddupally D, Wang R, Bar E, Davidovich-Rikanati R, Doron-pFaigenboim A, Alkan N, Lewinsohn E, Elad Y, Oren-Shamir M (2024). Phenylalanine treatment induces tomato resistance to Tuta absoluta via increased accumulation of benzenoid/phenylpropanoid volatiles serving as defense signals. Plant Journal (Accepted). (IF: 7.2)
7. **Ravikiran Donthu**, Jose A. P. Marcelino, Rosanna Giordano, Yudong Tao, Everett Weber<sup>6</sup>, Arian Avalos, Mark Band, Tatsiana Akraiko, Shu-Ching Chen et al. HBeeID: A molecular tool that identifies honey bee subspecies from different geographic populations. Accepted for publication in BMC Bioinformatics.
8. Jonathan H Badger, Rosanna Giordano, Aleksey Zimin, Robert Wappel, Senem M Eskipehlivan, Stephanie Muller, **Ravikiran Donthu**, Felipe Soto-Adames, Paulo Vieira, Inga Zasada, Sara Goodwin Direct sequencing of insect symbionts via nanopore adaptive sampling. Current Opinion in Insect Science. 2024 Feb;61:101135 doi: 10.1016/j.cois.2023.101135.
9. Ramesh Kumar, Elinah Awino, Dorcas Wanja Njeri, Aradhana Basu, Sujoy Chattaraj, **Jayato Nayak**, Snehagni Roy, Gausal A. Khan, Byong Hun Jeon, Alak Kumar Ghosh, Shrabana Pal, Shirsendu Banerjee, Prabhat Rout, Sankha Chakraborty, Suraj K. Tripathy, Advancing pharmaceutical wastewater treatment: A comprehensive review on application of catalytic membrane reactor-based hybrid approaches, Journal of Water Process Engineering, Volume 58, February 2024, 104838
10. Kanupriya Jha, Amit Kumar, Kartik Bhatnagar, Anupam Patra, Neel Sarovar Bhavesh, **Bipin Singh**, Sarika Chaudhary, "Modulation of Krüppel-like factors (KLFs) interaction with their binding partners in cancers through acetylation and phosphorylation", Biochimica et Biophysica Acta (BBA) - Gene Regulatory Mechanisms, Volume 1867, Issue 1, 2024, 195003, ISSN 1874-9399, <https://doi.org/10.1016/j.bbagr.2023.195003>
11. **Pradeep K. Rai**, Bounds on the order of the Schur multiplier of finite p-groups, Journal of pure and applied algebra, Volume 228, Issue, January 2024, 107463, Available at <https://doi.org/10.1016/j.jpaa.2023.107463>
12. **Solasa, K.C., Venkataraman, N.V., Choudhury, P.R.**, Schueller, J. K., **Bhattacharyya, A.**, On the Use of Alternative Measurement Methods in the Estimation of Wear Rates in Rotary-Pin-on-Disk Tribometry. Tribology Letters 72, 45 (2024). <https://doi.org/10.1007/s11249-024-01841-9>
13. **Polepally, G., Pasupuleti, V. D. K., & Kalapatapu, P.** (2024). Model-driven structural health assessment of Masonry Bridge: A Preliminary Study. Procedia Structural Integrity, 52, 280-292.
14. **Polepally, G., Neridu, S., Pasupuleti, V. D. K., & Kalapatapu, P.** (2024). Experimental and Numerical Investigation of Axial Load Capacity for Box-type Railway Bridges. Procedia Structural Integrity, 52, 487-505.
15. **Neridu, S., Katam, R., Polepally, G., Sreerama, A. K., Pasupuleti, V. D. K., & Kalapatapu, P.** (2024). Distress Diagnosis and Retrofitting of Twin Culvert Bridge. Procedia Structural Integrity, 52, 267-279.

16. **Katam, R., Neridu, S., Sreerama, A. K., Pasupuleti, V. D. K., & Kalapatapu, P.** (2024). Retrofitting and Strengthening of an RCC Building–A Case Study of Mixed Housing Typology. *Procedia Structural Integrity*, 52, 72-88
17. Sheikh, T. A., Banday, J. M., & **Pasupuleti, V. D. K.** (2024). Percentile influence of beam column cross-sectional design on progressive collapse potential of low-rise reinforced concrete framed structure. *Innovative Infrastructure Solutions*, 9(2), 40.
18. Dwivedi, R., Tiwari, A., **Bharill, N.**, Ratnaparkhe, M., Mogre, P., Gadge, P., & Jagadeesh, K," A novel apache spark-based 14-dimensional scalable feature extraction approach for the clustering of genomics data. *The Journal of Supercomputing*, 80(3), 3554-3588, 2024.
19. **Rachuri Harish Kumar & Bharghava Rajaram** (2024). "Design and Simulation of an Edge Compute Architecture for IoT-Based Clinical Decision Support System". *IEEE Access*. PP. 1-1. 10.1109/ACCESS.2024.3380906.
20. **Sneha Chennamsetty** and **Subbarao Boddu**, "Analysis and Emulation of Proposed Testbed for OFDMA 4G and 5G Cellular Networks", *International Journal of Communication Systems*, Article DOI: 10.1002/dac.5794 Internal Article ID: 17959821 Article ID: DAC5794
21. **Basu, R., Lather, J.** "An Iterative Method for the Qualitative Analysis of Nonlinear Neutral Delay Differential Equations". *J Math Sci* (2024). <https://doi.org/10.1007/s10958-024-06954-z>
22. **Sahu, Ashish Kumar**, Faiz Iqbal, and Sunil Jha. "Quality enhancement of micro-milled channels with automated laser assistance." *The International Journal of Advanced Manufacturing Technology* (2024): 1-17. <https://doi.org/10.1007/s00170-024-13182-x> IF 3.563
23. **Sidhu, R.D., Vamsi, K., Hariprasad, C.,** and Andrew, L. (2024). "Performance of granular materials stabilized with multi-axial geogrid reinforcement"., *Indian Geotechnical Journal*. <https://doi.org/10.1007/s40098-023-00834-0>.
24. **Chirala Satyanarayana, Manoj Kumar Yadav, Madhumita Nath,** "Multiquadric based RBF-HFD approximation formulas and convergence properties", *Engineering Analysis with Boundary Elements*, Volume 160, 2024, Pages 234-257, ISSN 0955-7997, <https://doi.org/10.1016/j.enganabound.2023.12.032>
25. **Nagaraju Napa, Manish Kumar Agrawal, Bhaskar Tamma,** "Development of electro-thermal model for air cooling study of electric vehicle lithium-ion battery module operating in Indian conditions and drive cycle", *Applied Thermal Engineering*, Volume 240, 2024, 122233, ISSN 1359-4311, <https://doi.org/10.1016/j.applthermaleng.2023.122233>
26. Amit Makhija, Kowsik Bodi and **Debasis Chakraborty**, "Numerical Simulation of Convective Heat Transfer in Supersonic Nozzle Flow" accepted for publication in *Defense Science journal*.
27. Neeraj Kumar Pradhan, Arindrajit Chowdhury, **Debasis Chakraborty**, Neeraj Kumbhakarna, "Modified multiflame model for AP-HTPB composite propellant combustion", *Combustion and Flame*, Volume 259, 2024, 113195, ISSN 0010-2180, <https://doi.org/10.1016/j.combustflame.2023.113195>
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29. Kefei Li, Junjie Zeng..... **Talakokula Visalakshi** et al., (2024), "RILEM recommendation from TC 289 DCM: guideline for designing and operating long term marine exposure sites", *Materials and Structures* (2024) 57:44 <https://doi.org/10.1617/s11527-024-02319-9>, Impact Factor: 3.427
30. Tarun Morwal, Tushar Bansal, Ammar Azam, **Visalakshi Talakokula** and T Jothi Saravanan (2024), "Exploring chloride-induced corrosion in reinforced concrete structures through embedded piezo sensor technology: an experimental and numerical study", *Smart Mater. Struct.* 33 (2024) 035039 (17pp). <https://doi.org/10.1088/1361-665X/ad287a>, Impact Factor: 4.1
31. **Wani F, Vemuri J,** Chenna R, Reddy K (2024), *Forecasting Duration Characteristics of Near Fault Pulse-like Ground Motions using Machine Learning Algorithms*, *Stochastic Environmental Research and Risk Assessment*, Springer

32. **Wani, F.M., Vemuri, J.** and Chenna, R. (2023), "Prediction of storey drift for reinforced concrete structures subjected to pulse-like ground motions using machine learning classification models", *International Journal of Structural Integrity*, <https://doi.org/10.1108/IJSI-06-2023-0054>
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34. Chenna, R., Patnala, N., **Vemuri, J.P.** et al. Insights on the June 21, 2022, Khost earthquake, Afghanistan. *Sādhanā* 48, 144 (2023). <https://doi.org/10.1007/s12046-023-02215-y>
35. T. R. Desai, S. S. Kundale, T.D. Dongale, **C Gurnani**, "Evaluation of the Cellulose-MXene Composite Hydrogel based Bio-Resistive Random-Access Memory Material as Mimics for Biological Synapse", *ACS Applied Bio Materials*, 2023, 6(5) 1763
36. T. R Desai, R. S. Goud, T.D. Dongale, **C. Gurnani**, "Evaluation of Nanostructured NiS<sub>2</sub> Thin Films from a Single-Source Precursor for Flexible Memristive Devices" *ACS Omega*, 2023, 8, 51, 48873–48883.
37. S. S. Harke, T. Zhang, R. Huang, **C. Gurnani**, "Solution-based in-situ deposition of Sb<sub>2</sub>S<sub>3</sub> from a single source precursor for resistive random-access memory devices" *Mater. Adv.*, 2023, 4, 4119-4128
38. Raina N; Shiekh PA; Kumar A; **Singh MS**; Gupta PK; Gupta M. (2023) Oxygen generating nanomaterials for chronic wound management. *Nanomedicine*. 18(11). (IF: 5.5)
39. Kumari A, **Kumar V**, Ovadia R, Oren-Shamir M (2023). Phenylalanine in motion: A tale of an essential molecule with many faces. *Biotechnology Advances* 68: 108246. (IF: 16.0)
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43. **Pradeep K. Rai**, Bogomolov multiplier of Lie algebras, *Linear Algebra and its Applications*, Volume 672, (2023), 122-133, Available at <https://doi.org/10.1016/j.laa.2023.04.024>
44. **Katam, R., Pasupuleti, V.D.K. and Kalapatapu, P.**, 2023. A review on structural health monitoring: past to present. *Innovative Infrastructure Solutions*, 8(9), p.248.
45. R. Dwivedi, A. Tiwari, **N. Bharill** et al., "An incremental clustering method based on multiple objectives for dynamic data analysis". *Multimed Tools Appl*, pp. 1-21, 2023. <https://doi.org/10.1007/s11042-023-17134-7>. (Impact factor: 3.6, SCI Index)
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49. Sanjeev Kumar, Ashirbad Sarangi, **Rakesh P. Badoni**, and R.P. Mohanty, "Development and Validation of a Hybridized Algorithm involving AHP and Machine Learning for Automobile Vehicle Selection," Accepted for publication in the *International Journal of Operational Research*. (). DOI: 10.1504/IJOR.2022.10050616

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66. **Debasis Chakraborty** "Supersonic Base Flow with and without Propulsive Jets: A Brief Review", Review paper, Journal of Aerospace Sciences and Technologies, Vol.75, No.3, pp:243-269, August 2023.
67. Gayathri Veeranki, Reiki Tanaya.K, Sai Harsha.S, **Kondaiah.P** (2023) Design, Analysis and Comparison of Piezoelectric Geometric Arrangements, Materials today: Proceedings (Accepted)
68. **Sajeev, V., Rane, S., Ghosh, D., Acharyya, Nityananda, Roy Choudhury, Palash, Mukherjee, Arnab, Roy Chowdhury, Dibakar** "Terahertz sensing of reduced graphene oxide nanosheets using sub-wavelength dipole cavities. Sci Rep 13, 12374 (2023). <https://doi.org/10.1038/s41598-023-39498-4>
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## International/National Conferences/Workshops

2024

1. **Mahesh RVVS, Srihari S, Govardhan Polepally, Venkata Dilip Kumar Pasupuleti and Prafulla Kalapatapu**, "Boundary-Induced Modal Study Tool for Beam Vibrations", The 9th International Workshop on Civil Structural Health Monitoring, Kuwait - FEB. 12-14, 2024
2. **Mohammed Mustafa Ahmed, Mandadi Revanth Sagar, Polepally Govardhan, Prafulla Kalapatapu and Venkata Dilip Kumar Pasupuleti**, "Vision based damage assessment of stone Masonry Bridges using Convolutional Neural Network", The 9th International Workshop on Civil Structural Health Monitoring, Kuwait - FEB. 12-14, 2024
3. **Mandadi Revanth Sagar, Rakesh Katam, Venkata Dilip Kumar Pasupuleti and Prafulla Kalapatapu**, "Experimental Investigation of Sensor Location Optimization for Mode Shape Extraction", The 9th International Workshop on Civil Structural Health Monitoring, Kuwait - FEB. 12-14, 2024
4. **M. Sarat Chandra, Aqib Shabir, Rakesh Katam, Venkata Dilip Kumar Pasupuleti and Prafulla Kalapatapu**, "Real-Time Frame Monitoring App: Development and Experimental Evaluation", The 9th International Workshop on Civil Structural Health Monitoring, Kuwait - FEB. 12-14, 2024
5. **Chaturvedi, A.** (June 2024) "Grokking (of) Jugaad", European Academy of Management (EURAM) Upcoming June 25-28, University of Bath, UK.
6. **Ani Thomas, Bharghava Rajaram**, "Evolving Interactions: Can AI Foster a "Presence of the Present" in Interactive Media?," Society for Phenomenology and Media Annual Conference 2024, Tallinn, Estonia, May 14-19 2024
7. **Subbarao Boddu**, Jagadeesh Babu Kamili<sup>1</sup>, Tatha Babu Addepalli, D. Rajendra Prasad, Kiran Kumar Bandi, Bhaskara Rao Perli, RVS Harish, "Radiation Pattern Improvement of Bowtie Antenna Using Annular Ring for Vehicle-to-Vehicle Communication", 2024 Wireless, Antenna and Microwave Symposium (WAMS), Vishakhapatnam, 2024, 29 Feb - 03 March 2024
8. **Subbarao Boddu**, Tatha Babu Addepalli, Jagadeesh Babu Kamili, Jayshri Kulkarni, Bhuvaneshwari Subburama, Padmaja Nimmalagadda, "Design of Triangular Shaped Multiple Input Multiple Output Antenna with Defected Substrate for 5G Sub 6 GHz and WLAN Applications", 2024 Wireless, Antenna and Microwave Symposium (WAMS), Vishakhapatnam, 2024, 29 Feb - 03 March 2024
9. **Paromita Bose** "The Nonsense World of Sukumar Ray." IACLALS 'Wit, Humour and the Carnavalesque in Literature and Performance' BITS Pinali, Goa. 15-17th February, 2024
10. Potta, R., Asthana, M., Yadav, S., **Goyal, N.**, Patnaik, S. and Jain, P., AttriSage: Product Attribute Value Extraction Using Graph Neural Networks" accepted at the EACL Student Research Workshop (SRW) 2024.

2023

11. **B. P. PAL**, Optical Fiber Designs Tailored for Specialty Applications, 2023, XLVI OSI International Symposium 2023 (OPTIQ2023), CUSAT, Kochi, India, Dec 11-13, 2023.
12. **B. P. PAL**, My Journey with Specialty Optical Fibers, 2023, Photonics Global conference (PGC2023), Stockholm, Sweden, Aug 21-23, 2023
13. **Katam, R., Kalapatapu, P., & Pasupuleti, V. D. K.** (2023, September). Smart Diagnosis of a Cantilever beam using SVM. In 2023 International Conference on Emerging Techniques in Computational Intelligence (ICETCI) (pp. 27-32). IEEE.
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15. **Siddhartha, SVDR, Govardhan, P., Kalapatapu, P. and Pasupuleti, V.D.K.**, Structural Damage Detection Through Finite Element Model Updating Using Evolutionary Algorithm, Proceedings of the 14th International Workshop on Structural Health Monitoring (IWSHM), September 12-14, 2023, Stanford University, USA.

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22. **Polepally, G., Pasupuleti, V.D.K. and Kalapatapu, P.**, Model-driven structural health assessment of Masonry Bridge: A Preliminary Study, 21st international conference on fracture and damage mechanics (FDM 2023), 12-14th Sep 2023, Imperial College, London, UK
23. **S. Innani, P. S. Chinnari, S. Sinha, M. Khan, N Bharill, O.P Patel**, "A Novel Robust Kernelized FCM based Multi-Objective Simultaneous Learning Framework for Clustering and Classification", IEEE Symposium Series On Computational Intelligence 2023, December 5-8, Mexico (Accepted, Rank-B)
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25. **P. Jha, A. Tiwari, N. Bharill, M. Ratnaparkhe, O. P. Patel, A. Gupta, D. Sukhija, R. Dwivedi**, "Scalable Kernelized Deep Fuzzy Clustering Algorithms for Big Data", IEEE Symposium Series On Computational Intelligence 2023, December 5-8, Mexico (Accepted, Rank-B)
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