

Journal Publications - 2024

- P. Agarwal, S. Yadav, J.P. Kandhasamy, A. Balaji, S. Markkandan, D. V Babu, Bayesian-based binary compression with bandwidth optimisation for UAV aerial images, *Int. J. Eng. Syst. Model. Simul.* 15 (2024) 53–62. <https://doi.org/10.1504/IJESMS.2024.136971>.
- P. Anusha, D. Natarajan, S. Rengarajan, S. Alfarraj, S. Kandasamy, An assessment of metal absorption competence of indigenous metal tolerant bacterial species- an in-vitro study, *Environ. Res.* 251 (2024). <https://doi.org/10.1016/j.envres.2024.118700>.
- V. Aravindan, V. Vijayanarayanan, B. Karuppasamy, K. Sakthipandi, M. Mahendran, First-principles study on rare earth-based equiatomic quaternary Heusler alloys YbCoCrSb and YbCoTiSn: New candidates for spintronics, *Mater. Today Commun.* 39 (2024). <https://doi.org/10.1016/j.mtcomm.2024.108599>.
- C. Chellaswamy, M. Muthu Manjula, B. Ramasubramanian, A. Sriram, FPGA-based remote target classification in hyperspectral imaging using multi-graph neural network, *Microprocess. Microsyst.* 105 (2024). <https://doi.org/10.1016/j.micpro.2024.105008>.
- G.T. Elakkiya, G. Sundararajan, R. Lakshmipathy, P. Anitha, N. Muruganatham, Prolific Application Of Green Synthesised Cds Nanoparticles For The Sequestration Of Cationic Dyes From Aqueous Solution, *Bull. Chem. Soc. Ethiop.* 38 (2024) 631–645. <https://doi.org/10.4314/bcse.v38i3.7>.
- R. Elangovan, K. Nagarajan, SEPIC-Based DC–DC Converter with Soft Switching Operation for Wide Conversion Operation of E-Automobiles, *Electr. Power Components Syst.* 52 (2024) 471–486. <https://doi.org/10.1080/15325008.2023.2227167>.
- M. Girija, V. Divya, Deep Learning-Based Traffic Accident Prediction: An Investigative Study for Enhanced Road Safety, *EAI Endorsed Trans. Internet Things.* 10 (2024). <https://doi.org/10.4108/eetiot.5166>.
- S. Jaganathan, B. Chandrasekar, M.P.F. Queen, Investigation of non-isolated dual-input step-up DC–DC converter using sliding mode control for EV application, *Electr. Eng.* (2024). <https://doi.org/10.1007/s00202-023-02172-z>.

- S. Kandasamy, P. Ilangovan, R. Kanagaraj, M. Sellamuthu, A. Karunakaran, Effect of sisal and coconut fibers on the strength performance of recycled aggregate concrete using copper slag, *Int. J. Adv. Manuf. Technol.* 130 (2024) 731–737. <https://doi.org/10.1007/s00170-023-12695-1>.
- V. Lakshmanan, P. Sathiya, T. Arunnellaiappan, N. Jeyaprakash, Correlation Between Microstructure and Corrosion Behavior of the Dissimilar Joints of Incoloy 800HT and P91 Steel Using GTAW Process, *Trans. Indian Inst. Met.* 77 (2024) 685–696. <https://doi.org/10.1007/s12666-023-03156-0>.
- D. Manikandan, V.C. Sathish Gandhi, R. Kumaravelan, V. Vignesh, Effect of hybrid filler loading (*Polyalthia longifolia* seed and graphite) on the mechanical and thermal properties of vinyl ester composites, *Polym. Compos.* (2024). <https://doi.org/10.1002/pc.28199>.
- S.G. Mohammed Hussain, R. Kumar, T. Lalitha Sree, P. Balu, V. Kannappan, Solubility enhancement of Cefpodoxime acid by aqueous solution of paracetamol through acoustical, polarizable continuum model and antimicrobial activity studies, *J. Mol. Liq.* 395 (2024). <https://doi.org/10.1016/j.molliq.2023.123918>.
- E.J. Nixon, A. Jayapaul, R.-J. Chung, S. Rajkumar, J.P. Merlin, Antimony vanadate spheres: Synthesis, characterizations, and use as positive electrode in asymmetric supercapacitor systems, *J. Electroanal. Chem.* 953 (2024). <https://doi.org/10.1016/j.jelechem.2023.118014>.
- S. Rajkumar, M. Karthikeyan, A. Manohar, S. Dhineshkumar, J. Princy Merlin, One-step synthesis and fabrication of $ZrMo_2O_8$ nanostructures as advanced electrode material for energy storage applications, *J. Ind. Eng. Chem.* (2024). <https://doi.org/10.1016/j.jiec.2024.03.002>.
- S. Rengarajan, S. Deepa, D. Natarajan, A. Pandian, M.M. Al-Ansari, G. Oza, I. Castillo-Maldonado, A. Sharma, Bioremediation potential of biochar and metal tolerant *Bacillus cereus* on heavy metal polluted mine surrounding pond and assessed cytotoxicity and phytotoxicity attributes of treated water on Brine shrimp larvae and Paddy seedling, *J. Taiwan Inst. Chem. Eng.* (2024). <https://doi.org/10.1016/j.jtice.2023.105330>.
- K. Sakthipandi, K. Venkatesan, G. Purushothaman, G. Rajkumar, R.B. Jotania, R. Sivakumar, S. Arunmetha, A. Hossain, Study of phase transition temperature in defect-

- induced barium hexaferrite, Mater. Lett. 363 (2024).
<https://doi.org/10.1016/j.matlet.2024.136257>.
- K. Sakthipandi, K. Venkatesan, R. Sivakumar, G. Rajkumar, B. Ganesh Babu, S. Arunmetha, A. Hossain, M. Srinidhi Raghavan, V. Rajendran, Exploring the impact of rare-earth (La³⁺) ions doping on structural, magnetic, and dielectric properties of Co_{0.50}Ni_{0.50}La_xFe_{2-x}O₄ nano-spinel ferrite, J. Alloys Compd. 981 (2024).
<https://doi.org/10.1016/j.jallcom.2024.173708>.
 - J. Salamon, A. Simi, H.J. Prabu, A.F. Sahayaraj, I. Johnson, V. Snowlin, R.R. Gopi, A.J.S. Kennedy, Synthesis and Characterization of Graphene-Doped Co₃O₄ Nanotubes Electrode Material for Supercapacitor Application, J. Inorg. Organomet. Polym. Mater. (2024). <https://doi.org/10.1007/s10904-023-02995-0>.
 - A. Sathiyar, S. Rajkumar, S. Dhineshkumar, J. Princy Merlin, Electrochemical performance of SrMoO₄ as electrode material for energy storage systems, J. Ind. Eng. Chem. 129 (2024) 521–530. <https://doi.org/10.1016/j.jiec.2023.09.011>.
 - N. Senniangiri, J. Bensam Raj, Y. Brucely, A.B. Herbert bejathin, Effect of SnO₂ and Ag nano-additives on the performance, combustion and emission characteristics of diesel engine fueled with mango seed biodiesel, Pet. Sci. Technol. 42 (2024) 470–490.
<https://doi.org/10.1080/10916466.2022.2120501>.
 - C. Subba Rao, C. Chellaswamy, T.S. Geetha, S. Arul, Deep Learning Based Decision Support Framework for Dead Reckoning in Emergency Vehicle Preemption, Int. J. Intell. Transp. Syst. Res. 22 (2024) 117–135. <https://doi.org/10.1007/s13177-023-00384-y>.
 - J. Sumathi, P. Aravind, G. Gandhimathi, Smart solutions for dissolved oxygen control in semi-batch fermenters: A machine learning approach, Desalin. Water Treat. 317 (2024). <https://doi.org/10.1016/j.dwt.2024.100004>.
 - N. Venkatesh Bharathi, K. Sakthipandi, S. Monisha, Synthesis and luminescence investigation of mirror symmetric europium and dysprosium co-doped barium vanadate phosphor for optoelectronic applications, Chem. Phys. Impact. 8 (2024).
<https://doi.org/10.1016/j.chphi.2024.100506>.