



Papers published by Faculty in Journals/Conferences

Academic Year - 2023-24

International Journals (With Impact Factor)	132
International Journals (Scopus)	56
International Journals (WOS)	09
Scopus Indexed International Conferences	118
International Journals (UGC)	07
National Conferences	03
Total	325

International Journal: (With Impact Factor)

1. G. Ganesh, "A review on the chemical and biological sensing applications of silver/carbon dots nano composites with their interaction mechanisms", Advances in Colloid and Interface Science, Vol.325, Mar 2024.

[IF 15.6, SJR 2.66, H- Index 224]

<https://www.sciencedirect.com/science/article/abs/pii/S0001868624000381>

2. Elumalai P.V, "Cooling performance of a Li-ion cylindrical battery pack with liquid circulating pipes embedded in phase change material", Journal of Energy Storage, Vol.87, May 2024.

[IF 9.4, SJR 1.6, H- Index 105]

<https://www.sciencedirect.com/science/article/abs/pii/S2352152X24009204?via%3Dihub>

3. Elumalai P.V, "Strategic combination of waste plastic/tire pyrolysis oil with biodiesel for natural gas-enriched HCCI engine: Experimental analysis and machine learning model", Energy, Vol. 280, Oct 2023.

[IF-9.0. SJR 1.99, H- Index 232]

<https://www.sciencedirect.com/science/article/abs/pii/S0360544223016274>

4. Abhishek Kumar Tripathi, “Multiobjective optimization and performance assessment of a PEM fuel cell-based energy system for multiple products”, Chemosphere, Vol.337, Oct 2023.

[IF-8.8. SJR 1.73, H- Index 288]

<https://www.sciencedirect.com/science/article/abs/pii/S0045653523016156>

5. Abhishek Kumar Tripathi, “Multiobjective optimization of a hybrid electricity generation system based on waste energy of internal combustion engine and solar system for sustainable environment”, Chemosphere, Vol.336, Sep 2023

[IF-8.8. SJR 1.73, H- Index 288]

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6. Abhishek Kumar Tripathi, “Multidisciplinary design optimization of a power generation system based on waste energy recovery from an internal combustion engine using organic Rankine cycle and thermoelectric generator”, Chemosphere, Vol.340, Nov 2023

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7. G. Jaswanth, “Probabilistic demand models and reliability based code calibration for reinforced concrete column and beam subjected to blast loading”, Reliability Engineering and System Safety, Vol. 240, Dec 2023.

[IF-8.1. SJR 1.76, H- Index 171]

<https://www.sciencedirect.com/science/article/abs/pii/S095183202300491X>

8. S. Rama sree, “Improving the performance of automatic short answer grading using transfer learning and augmentation”, Engineering Applications of Artificial Intelligence, Vol.123, Aug 2023.

[IF-7.80. SJR 1.73, H- Index 126]

<https://www.sciencedirect.com/science/article/abs/pii/S0952197623004761>

9. Elumalai P.V, “Substitution of diesel fuel in conventional compression ignition engine with waste biomass-based fuel and its validation using artificial neural networks”, Process Safety and Environmental Protection, Vol. 177, Sep 2023.

[IF-7.8. SJR 1.34, H- Index 100]

<https://www.sciencedirect.com/science/article/pii/S0957582023006900>

10. Elumalai P.V, “Exploration of low heat rejection engine characteristics powered with carbon nanotubes-added waste plastic pyrolysis oil”, Process Safety and Environmental Protection, Vol.176, Aug 2023.

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<https://www.sciencedirect.com/science/article/abs/pii/S0957582023005499#:~:text=The%20LHR%20engine%20was%20operated,diesel%20operating%20in%20normal%20mode.>

11. N. Ram Babu, “Application of an optimal tilt controller in a partial loading schedule of multi-area power system considering HVDC link and virtual inertia”, ISA Transactions, Vol.146, Mar 2024.

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12. G. Jaswanth, “ Development of design guidelines using probabilistic framework for the development of smart thickening fluid based ultra-resistant adaptive kinematic soft humanarmor (SURAKSHA)”, Reliability Engineering and System Safety, Vol.236, Aug 2023.

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13. Elumalai P.V, “Investigation of nano composite heat exchanger annular pipeline flow using CFD analysis for crude oil and water characteristics”, Case Studies in Thermal Engineering, Vol.49, Sept 2023.

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14. Elumalai P.V, “Prediction of RCCI combustion fueled with CNG and algal biodiesel to sustain efficient diesel engines using machine learning techniques”, Case Studies in Thermal Engineering, Vol.51, Nov 2023.

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<https://www.sciencedirect.com/science/article/pii/S2214157X2300936X>

15. Elumalai P.V, “Experimental investigation and gray relational optimization of engine parameters to improve the output characteristics of an ammonia biodiesel powered dual fuel combustion engine”, Case Studies in Thermal Engineering, Vol.56, April 2024.

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16. N. Nagabhooshanam, “Effect of adding Indiana red matta rice husk Si_3N_4 bioceramic on mechanical, wear, flammability and tensile creep behavior of corn husk fiber polyester composite”, Polymer Composites, Vol.44, No.9, June 2023.

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17. T. Ramareddy, “An efficient hybrid optimization algorithm for detecting heart disease using adaptive stacked residual convolutional neural networks”, Biomedical Signal Processing and Control, Vol.87, Pat B, Jan 2024.

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18. N. Rambabu, “Frequency Control of a Realistic Dish Stirling Solar Thermal System and Accurate HVDC Models Using a Cascaded FOPI-IDDN-Based Crow Search Algorithm”, International Journal of Energy Research, Vol.2023, Aug 2023.

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19. Abhishek Kumar Tripathi, “Integrated smart dust monitoring and prediction system for surface mine sites using IoT and machine learning techniques”, Scientific Reports, Vol.14, No.1, Mar 2024.

[IF 4.6, SJR 0.9, H- Index 315]

<https://www.nature.com/articles/s41598-024-58021-x#:~:text=The%20integration%20of%20IoT%20technology%20and%20machine%20learning%20aims%20to,health%20and%20the%20environment11.>

20. Elumalai P.V, “Development of an ammonia-biodiesel dual fuel combustion engine's injection strategy map using response surface optimization and artificial neural network prediction”, Scientific Reports, Vol.14, No.1, Jan 2024.

[IF 4.6, SJR 0.9, H- Index 315]

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21. Elumalai P.V, “Enhancing automotive cooling systems: composite fins and nanoparticles analysis in radiators” Scientific Reports, Vol.14, No.1, Feb 2024.

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22. Elumalai P.V, “Investigation on Ammonia-Biodiesel Fueled RCCI Combustion Engine Using a Split Injection Strategy”, ACS Omega, Vol.8, No.34, Aug 2023.

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23. Elumalai P.V, “Enhancing Performance and Emission Characteristics of Biodiesel-Operated Compression Ignition Engines through Low Heat Rejection Mode and Antioxidant Additives: A Review”, ACS Omega, Vol.8, No.38, Sep 2023.

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24. Abhishek Kumar Tripathi, “ZnO@ZnCo₂O₄ core-shell: A novel high electrocatalytic nanostructure to replace platinum as the counter electrode in dye-sensitized solar cells”, Materials Science in Semiconductor Processing, Vol.165, Oct 2023.

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<https://www.sciencedirect.com/science/article/abs/pii/S136980012300402X#:~:text=The%20ZnO%40ZnCo2O,the%20conventional%20Pt%20counter%20electrode.>

25. Elumalai P.V, “Effect of Infill Patterns with Machine Learning Techniques on the Tensile Properties of Polylactic Acid-Based Ceramic Materials with Fused Filament Fabrication”, ACS Omega, July 2023.

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26. N Siva Kumar, “Deep Learning based Massive MIMO Precoder under Heavily Noisy Channel with Flexible Rate and Power Adaptation”, Soft Computing, June 2023.

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30. Elumalai P.V, “Performance and Emission Analysis of Biodiesel Blends in a Low Heat Rejection Engine with an Antioxidant Additive: An Experimental Study”, ACS Omega, Vol.8, No.40, Sep 2023.

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31. Elumalai P.V, “Compatibility Effects of Waste Cooking Oil Biodiesel Blend on Fuel System Elastomers in Compression Ignition Engines”, ACS Omega, Vol.9, No.6, Feb 2024.

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34. Elumalai P.V, “Experimental Investigation on the Effect of Graphene Oxide in Higher Alcohol Blends and Optimization of Injection Timing Using an ANN Method”, ACS Omega, Vol.8, No.44, Oct 2023.

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35. Elumalai P.V, “Experimental Study on Sustainability Involving the Pugh Matrix on Emission Values of High-Temperature Air in the Premixed Charged Compression Ignition Engine”, ACS Omega, Vol.8, No.44, Oct 2023.

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36. Elumalai P.V, “Multicriteria Decision-Making Technique for Choosing the Optimal Ammonia Energy Share in an Ammonia-Biodiesel-Fueled Reactivity-Controlled Compression Ignition Engine”, ACS Omega, Vol.9, No.5, Jan 2024.

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38. D. V. N. Koteswara Rao, “Compact MIMO UWB antenna integration with Ku band for advanced wireless communication applications”, Heliyon, Vol. 10, Mar 2024

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39. N. Nagabhooshanam, “A characterization study on toughening natural fibre composites using functionalized barely husk biosilica”, Biomass Conversion and Biorefinery, Sep 2023.

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105. P.S. Ranjit, "Artificial Intelligence's Implications on Supply Chain Management", International Conference on Advances in Science, Technology and Management, Natural Science, Medical Science, Applied Sciences, Technology & Management, Maldives, 24-27, Nov 2023
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2. G. Chinnaram, "Influence of Cobalt Ions on Spectroscopic and Emission Characteristics of Lead Alumina Bismuth Phosphate Glass System", 67th DAE Solid State Physics Symposium, GITAM University, Visakhapatnam, 20-24 Dec 2023
3. A. Phani Sridhar, "Human Stress Detection Using Deep Learning", National Conference on Design Thinking: Trans-Disciplinary Challenges & Opportunities, Dr. B.R. Ambedkar Chair, Andhra University, Visakhapatnam, 7-8 July 2023.

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