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LIST OF RESEARCH PAPERS/ARTICLES PUBLISHED BY
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| 1. | <u>A Novel Sinusoidal Oscillator Using Single Voltage Differencing Buffered Amplifier</u> | Gupta, P.,
Komanapalli, G.,
Pandey, R. | Journal of Circuits, Systems and Computers, art. no. 2550019. |
| 2. | <u>Advanced Security System for four wheeler: Minimizing Collision Accidents through Collision Avoidance Technology.</u> | Chaudhary, A.,
Koshal, Rana, N.,
Arman, M. | ICEPE 2024 - 6th International Conference on Energy, Power and Environment: Towards Indigenous Energy Utilization. |
| 3. | <u>AFF-BPL: An adaptive feature fusion technique for the diagnosis of autism spectrum disorder using Bat-PSO-LSTM based framework</u> | Khan, K.,
Katarya, R. | Journal of Computational Science, 83, art. no. 102447. |
| 4. | <u>An In-depth Analysis of Transformer Models for Enhanced Performance in Fake News Detection</u> | Kumar, S.,
Malhotra, N.,
Garg, N.,
Shakil, M.A. | Proceedings - 2024 5th International Conference on Image Processing and Capsule Networks, ICIPCN 2024, pp. 158-165. |
| 5. | <u>Appearance of topological phase in YAs semimetal under hydrostatic pressure and epitaxial strain</u> | Kumar, R.,
Singh, M. | Journal of Physics and Chemistry of Solids, 196, art. no. 112356 |



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| 6. | <u>Comparative Analysis of Dip-Brazing and TIG Welding on the Properties of Al-64430 Joints</u> | Garg, S.,
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| 7. | <u>Computational Fluid Dynamics Investigation Over Savonius Turbine Using Dynamic Mesh Technique</u> | Singh, H.,
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| 8. | <u>Effect of promoters in hydrates based carbon dioxide capture: A review</u> | Dubey, A.,
Arora, A. | Gas Science and Engineering, 131, art. no. 205459. |
| 9. | <u>Fabrication of Lead-Free PVDF/KNLTS/MWCNT Piezoelectric Nanogenerator: Role of MWCNT in the Piezoelectric Performance of Nanogenerator for Energy-Harvesting Application</u> | Verma, K.,
Kumar, A.,
Sharma, R. | Journal of Electronic Materials. |
| 10. | <u>Impact of chaplygin-like equation of state on Joule-Thomson expansion and tidal forces of AdS black holes</u> | Javed, F.,
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| 11. | <u>In Silico Approach to Identify Key Active Plant Derived Natural Compounds in Parkinson's Disease</u> | Shruti, Bharadvaja, N. | Letters in Applied NanoBioScience, 13(2), art. no. 78. |
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| 12. | <u>K-BEST subspace clustering: kernel-friendly block-diagonal embedded and similarity-preserving transformed subspace clustering</u> | Maggu, J.,
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| 14. | <u>Machine learning approach for evaluating soil liquefaction probability based on reliability method</u> | Khatoon, S.,
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| 15. | <u>Numerical Investigation of the Effects of Al₂O₃ Nanofluid on the Thermohydraulic Performance of Fractal Microchannel Heat Sink</u> | Sadique, H.,
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Indu, S. | IEEE Access. |
| 17. | <u>Optimizing carrier concentration for enhanced thermoelectric performance in AgSbS₂ monolayer</u> | Mathew, S.S.,
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| 18. | <u>Quantification of Color Variation of Various Esthetic Restorative Materials in Pediatric Dentistry</u> | Varshney, P.,
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| 19. | <u>Structural and spectroscopic features of single-phase Dy³⁺ activated BiYWO₆ phosphor for luminescent device applications</u> | Maurya, I.,
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| 20. | <u>Tailoring pH-sensitive carboxymethyl tamarind kernel gum-based hydrogel for an efficient delivery of hydrophobic drug indomethacin</u> | Meena, P.,
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2. **A Novel APVD Steganography Technique Incorporating Pseudorandom Pixel Selection for Robust Image Security** Hosain, M., Kapoor, R. **Lecture Notes in Electrical Engineering, 1191 LNEE, pp. 663-677.**

3. **Addressing Bias in Text-to-Image Generation: A Review of Mitigation Methods** Prerak, S. **2024 3rd International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2024.**

4. **An Efficient Assistance in Cavity Filter Tuning Using Filter Screw Classification** Sekhri, E., Tamre, M., Kapoor, R. **Lecture Notes in Electrical Engineering, 1191 LNEE, pp. 791-799.**

5. **An insight into impact of nanomaterials toxicity on human health (Open Access)** Qamar, W., Gulia, S., Athar, M., (...), Hassan, Md.I., Rahman, S. **PeerJ, 12(9), art. no. e17807.**



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| 7. | <u>Design and Implementation of BIST logic for High Speed and Energy Efficient Carry Select Adder(CSLA)</u> | Solanki, G.,
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| 8. | <u>Detection of Rail Line Track and Human Beings Near the Track to Avoid Accidents</u> | Hosain, M.,
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| 9. | <u>Effect of Dy³⁺ ions on physical, structural and thermal properties of ZnNaPbB glasses</u> | Manjeet,
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| 10. | <u>Enhancing Concrete Performance with Treated Recycled Aggregates: A Comparative Study of Coating, Chemical, and Abrasion Treatments</u> | Panghal, H.,
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| 13. | <u>Optimising the quality of several welds in a metal-inert gas arc joining of AA6082 and AA7075 using the grey-based Taguchi technique</u> | Kumar, V.,
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| 15. | <u>Reducing overfitting in deep learning intrusion detection for power systems with CTGAN</u> | Agarwal, L.,
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| 17. | <u>Techno-economic evaluation and sensitivity analysis of renewable energy based designing of plug-in electric vehicle load considering load following strategy.</u> | Bilal, M.,
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| 2. | <u>Bioeconomy for Sustainable Bioenergy and Biofuel Generation</u> | Kag, S.,
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| 4. | <u>Evaluation of the mechanical and microstructural properties of an Al7075/B4C/Gr FGM plate fabricated using a stir casting process</u> | Singh, R.K.,
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| 5. | <u>Integrated analysis of gene expressions and targeted mirnas for explaining crosstalk between oral and esophageal squamous cell carcinomas through an interpretable machine learning approach</u> | Yadav, K.,
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Fadlalla, M.,
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14(1), art. no. 23116.</p> |
| 7. | <p><u>Linear Monotonic Inter-electrode Associations as Quantitative EEG for Alcoholism Diagnosis</u> (Open Access)</p> | <p>Holker, R.,
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| 12. | <u>Unveiling Toxic Tendencies of Small Language Models in Unconstrained Generation Tasks</u> | Chandra, L.,
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| 3. | <u>Double Metal Gate Macaroni Nanowire FET (DMGM-NFET) for Improved Performance and Off-State Leakage Reduction (Open Access)</u> | Kaul, A.,
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| 4. | <u>Efficient quantum-dot adder optimisation and analysis for future circuits</u> | Chugh, H.,
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| 7. | <u>Human Activity Recognition Using Federated Transfer Learning</u> | Samuel, N.,
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