

**MONTHLY EDITION
(MARCH 2024)**

2024 CURRENT AWARENESS BULLETIN

**(List of Research papers /Articles published by
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| 1. | <u>A Comprehensive Review and Performance Analysis of Different 7T and 9T SRAM Bit Cells</u> | Garg, M.,
Chaturvedi, M.,
Mittal, P.,
Chauhan, A. | Smart Innovation, Systems and Technologies, 373, pp. 595-605. |
| 2. | <u>A comprehensive review on effect of cold metal transfer welding parameters on dissimilar and similar metal welding</u>
<u>Open Access</u> | Singh, I.J.,
Murtaza, Q.,
Kumar, P. | Journal of Engineering Research (Kuwait). |
| 3. | <u>A comprehensive review on Federated Learning for Data-Sensitive Application: Open issues & challenges</u> | Narula, M.,
Meena, J.,
Vishwakarma, D.K. | Engineering Applications of Artificial Intelligence, 133, art. no. 108128. |
| 4. | <u>A deep learning approach to dysarthric utterance classification with BiLSTM-GRU, speech cue filtering, and log mel spectrograms</u> | Mehra, S.,
Ranga, V.,
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| 5. | <u>A Hybrid Approach for Depression Detection Using Word Embedding, Naive Bayes and Bi-LSTM Models</u> | Singh, J.,
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| 7. | <u>A novel framework for optimizing Gurney flaps using RBF surrogate model and cuckoo search algorithm</u> | Tyagi, A.,
Singh, P.,
Rao, A.,
Kumar, G.,
Singh, R.K. | Acta Mechanica. |
| 8. | <u>A Proposed IOT-based Smart Healthcare Management Framework for Performing Lossless Data Compression using Concept of Ontology (Open Access)</u> | Sahu, M.,
Panda, J. | Journal of Scientific and Industrial Research, 83(3), pp. 282-291. |
| 9. | <u>A secure and energy-efficient edge computing improved SZ 2.1 hybrid algorithm for handling iot data stream</u> | Patidar, S.,
Jindal, R.,
Kumar, N. | Multimedia Tools and Applications. |
| 10. | <u>A Single Line 8T SRAM Bit Cell with Robust Read, Hold Stability and Low Power</u> | Chopra, Y.,
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| 12. | <u>Advancements in composite cathodes for intermediate-temperature solid oxide fuel cells: A comprehensive review</u> | Yadav, A.K.,
Sinha, S.,
Kumar, A. | International Journal of Hydrogen Energy, 59, pp. 1080-1093. |
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| 13. | <u>An Examination of Inter-State Variation in Utilization of Healthcare Services, Associated Financial Burden and Inequality: Evidence from Nationally Representative Survey in India</u> | Aashima, Sharma, R. | International Journal of Social Determinants of Health and Health Services. |
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| 14. | <u>Analytical modeling of spacer-engineered reconfigurable silicon nanowire Schottky barrier transistor for biosensing applications</u> | Thakur, V.,
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| 15. | <u>Analyzing the Performance of Class-F Power Amplifier by Comparing Microstrip and SSL/SIL Transmission Lines Based Matching Networks for Smart Parking Solutions for Improved Efficiency and Output Power (Open Access)</u> | Priya, P.,
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| 17. | <u>Are Delhi residents exposed to lesser particle number concentration due to the firework ban in the city?</u> | Rajagopal, K.,
Mohan, V.,
Mishra, R.K. | Air Quality, Atmosphere and Health. |
| 18. | <u>BREATH-Net: a novel deep learning framework for NO₂ prediction using bi-directional encoder with transformer</u> | Verma, A.,
Ranga, V.,
Vishwakarma, D.K. | Environmental Monitoring and Assessment, 196(4), art. no. 340. |
| 19. | <u>Climatic Trends in Temperature, Relative Humidity, and Wind Speed Over Indian Landmass and Isle in Andaman Nicobar and Lakshadweep During 1981–2021</u> | Malik, S.,
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| 20. | <u>Coherent structures of beam-driven whistler mode in the presence of magnetic islands in the magnetopause</u> | Jyoti,
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Tevatia, A. | Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science. |
| 22. | <u>Computational Intelligence Methods for Biomarkers Discovery in Autoimmune Diseases: Case Studies</u> | Bano, N.,
Sajid, I.,
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| 24. | <u>Deep-Learning and Blockchain-Empowered Secure Data Sharing for Smart Grid Infrastructure</u> | Kumar, C.,
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| 27. | <u>Design and numerical modeling of chalcogenide parabolic-core waveguide for on-chip supercontinuum generation extending from near-IR region to mid-IR region</u> | Tomer, D.S.,
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| 28. | <u>Design and Performance Evaluation of a Novel Solar Dryer for Drying Potatoes in the Eastern Algerian Sahara</u> | Ammar, M.A.H.,
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| 29. | <u>Development and Characterization of Novel Engine-Oil-Based Media Gel for Thermal Additive Centrifugal Abrasive Flow Machining</u> | Bhardwaj, A.,
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| 32. | <u>Effect of Rare Earth Metal (Lanthanum) Doping on Optical and Electronic Properties of Lithium Niobate (LiNbO_3): DFT Insights (Open Access)</u> | Raturi, A.,
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| 33. | <u>Effect of rGO weight percentage on structural, optical, and electrical properties of rGO-SnO_2 nanocomposite for resistive memory device applications</u> | Komal, K.,
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| 34. | <u>Electrokinetic remediation: Past experiences and future roadmap for sustainable remediation of metal-contaminated soils</u> | Taneja, S.,
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| 35. | <u>Empirical validation of machine learning techniques for heterogeneous cross-project change prediction and within-project change prediction</u> | Malhotra, R.,
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95, art. no. 102229. |
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| 37. | <u>Exploration of structural and dielectric properties of orthorhombic Ta2O5 nanoplatelets towards the potential optoelectronic devices</u> | Sangwan, S.,
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| 38. | <u>Exploring the Deep Learning Techniques in Plant Disease Detection: A Review of Recent Advances</u> | Singh, S.,
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| 39. | <u>Fabrication and evaluation of polyurethane supported form-stable PCMs</u> | Tanwar, S.,
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| 40. | <u>Formulation and evaluation of the radius of maximum wind of the tropical cyclones over the North Indian Ocean basin</u> | Yadav, M.,
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| 44. | <u>Implementing Solar PV System in DC Microgrid for Electric Vehicle Charging</u> | Yadav, A.,
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| 47. | <u>Interceptor sewer for abatement of pollution in surface water (Open Access)</u> | Tyagi, R.S.,
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| 48. | <u>Interfacial charge associated reliability improvement in arsenide/antimonide tunneling interfaced-junctionless TFET</u> | Sharma, S.,
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| 49. | <u>IoT-enabled coordination for recommerce circular supply chain in the industry 4.0 era</u> | Kumar, D.,
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(Netherlands), 26, art. no.
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| 50. | <u>Modeling and simulation characteristics of a highly-sensitive stack-engineered junctionless accumulation Nanowire FET for PH₃Gas Detector (Open Access)</u> | Neeraj, Sharma,
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| 53. | <u>Nonlinear propagation of whistler-mode in the presence of magnetic Islands in the magnetopause</u> | Jyoti, Sharma, S.C.,
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| 55. | <u>Numerical simulation of inter-stage of multistage centrifugal pump by varying number of blades</u> | Yadav, D.,
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23(2), pp. 162-169. |
| 62. | <u>Recent advances of biogas reforming for hydrogen production: Methods, purification, utility and techno-economics analysis</u> | Kumar, R.,
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