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2024 CURRENT AWARENESS BULLETIN

(List of Research papers /Articles published by
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| 1. | <u>A comprehensive analysis of energy, exergy, performance, and emissions of a spark-ignition engine running on blends of gasoline, ethanol, and isoamyl alcohol</u> | Yadav, P.S.,
Gautam, R.,
Le, T.T., (...),
Le, A.T.,
Hoang, A.T. | Energy, 307, art. no. 132548. |
| 2. | <u>A Hybrid BERT-CNN Approach for Depression Detection on Social Media Using Multimodal Data</u> | Beniwal, R.,
Saraswat, P. | Computer Journal, 67(7), pp. 2453-2472. |
| 3. | <u>A Machine Learning Approach With PSO for Intrusion Detection</u> | Sharma, R.,
Madar, M.K.,
Meena, M.,
Kumar, V. | 2024 International Conference on Intelligent Systems for Cybersecurity, ICS 2024. |
| 4. | <u>A Numerical Investigation on Estimation and Validation of Power Law Constants for TiB2 Reinforced AA2024 Composite Material</u> | Sahu, R.,
Srinivas, K.,
Agrawal, A.K. | Smart Innovation, Systems and Technologies, 390, pp. 25-33. |
| 5. | <u>A Posteriori Error Analysis of Defect Correction Method for Singular Perturbation Problems With Discontinuous Coefficient and Point Source</u> | Kaushik, A.,
Jain, S. | Journal of Computational and Nonlinear Dynamics, 19(9), art. no. 091005-1. |



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| 6. | <u>A Single Bitline Highly Stable, Low Power With High Speed Half-Select Disturb Free 11T SRAM Cell (Open Access)</u> | Soni, L.,
Pandey, N. | ACM Transactions on Design Automation of Electronic Systems, 29(4), art. no. 67. |
| 7. | <u>A systematic review of transfer learning in software engineering (Open Access)</u> | Malhotra, R.,
Meena, S. | Multimedia Tools and Applications. |
| 8. | <u>Addressing the rd tension using late-time observational measurements in a novel deceleration parametrization</u> | Chaudhary, H.,
Debnath, U.,
Maurya, S.K.,
Mustafa, G.,
Atamurotov, F. | Journal of High Energy Astrophysics, 43, pp. 268-279. |
| 9. | <u>AI-KODA score application for cleanliness assessment in video capsule endoscopy frames</u> | Handa, P.,
Goel, N.,
Indu, S.,
Gunjan, D. | Minimally Invasive Therapy and Allied Technologies. |
| 10. | <u>An experimental investigation of process parameters on material removal and surface roughness improvement in abrasive flow machining</u> | Om, H.,
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| 12. | <u>Analyzing the Bottleneck in Crankcase Cover Manufacturing using Simulation and Modelling</u> | Jha, S.,
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Gupta, A.,
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Jadon, R.P.S. | Journal of Scientific and Industrial Research, 83(8), pp. 830-835. |
| 13. | <u>Analysis and mapping of the indoor acoustic environment in university study spaces</u> | Jha, S.,
Gupta, A.,
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Mishra, R.K.,
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| 14. | <u>Assessment of PM10 in Colombo, Sri Lanka and Its Potential Source Regions</u> | Rathnayake, T.,
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| 15. | <u>Barrow holographic dark energy model in f(R,T) theory.</u> | Devi, K.,
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Vishwakarma, D.K. | 2024 5th International Conference for Emerging Technology, INCET 2024. |
| 17. | <u>Comparative Analysis of various Slot in Patch Antennas: A Review</u> | Khandelwal, S.K.,
Verma, A.,
Yadav, A.,
Goyal, A. | 2024 5th International Conference for Emerging Technology, INCET 2024. |
| 18. | <u>Comparative Evaluation of Satellite-Based Merra-2 against Ground-based Data for PM2.5 and TC Concentrations in Ghaziabad, India</u> | Sinha, R.,
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Gupta, L. | E3S Web of Conferences, 559, art. no. 01005. |
| 19. | <u>Complementary Dynamics of Global and Local Centrality for Influence Maximization in Social Networks</u> | Yadav, R.K.,
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| 20. | <u>Comprehensive assessment of air quality dynamics in Delhi: a tri-phased analysis spanning pre, during, and post-lockdown periods</u> | Popli, S.,
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| 22. | <u>Constraining cosmological parameters with viscous modified chaplygin gas and generalized cosmic chaplygin gas models in Horava-Lifshitz gravity: Utilizing late-time datasets</u> | Maity, S.,
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Mustafa, G. | Astroparticle Physics, 164, art. no. 103026. |
| 23. | <u>Constraints on the parameters of modified Chaplygin-Jacobi and modified Chaplygin-Abel gases in $f(T)$ gravity.</u> | Chaudhary, H.,
Debnath, U.,
Roy, T., (...),
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| 25. | <u>Design and Optimization of Terahertz Based D-shaped Photonic Crystal Fiber for Blood Component Detection</u> | Chaudhary, V.,
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| 27. | <u>Detection of Suspicious Activities at Hypervisor in Cloud Computing: A Brief Study</u> | Anumukonda,
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| 28. | <u>Development of graphene oxide-incorporated biopolymer-carboxymethyl tamarind kernel gum-based hydrogel as an effective adsorbent for the sequestration of dye pollutants</u> | Yadav, P.,
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| 29. | <u>Document Information Retrieval with Deep Learning</u> | Sharma, A.,
Arya, A. | 2024 International Conference on Advances in Modern Age Technologies for Health and Engineering Science, AMATHE 2024. |
| 30. | <u>Drug hypersensitivity linked to genetic variations of human leukocyte antigen</u> | Guin, D.,
Kukreti, R. | Therapeutic Drug Monitoring: Newer Drugs and Biomarkers, Second Edition, pp. 387-417. |



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| 32. | <u>Effect of laser ablation over cavitation, slurry erosion, and surface properties of 86WC-10Co-4Cr based ceramic coating developed using HP-HVOLF</u> | Vishnoi, M.,
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| 33. | <u>Effect of various energy storage phase change materials (PCMs) and nano-enhanced PCMs on the performance of solar stills: A review</u> | Dubey, A.,
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| 34. | <u>Enhancement of multiplication factor of capacitor using single current follower differential input transconductance amplifier</u> | Raj, A.,
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| 35. | <u>Exergo-enviro-economic analyses and productivity evaluation of conical solar still integrated with evacuated collectors for sustainable solar distillation</u> | Kumar, A.,
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| 37. | <u>Experimental investigation of process parameters of cold metal transfer welding-based wire arc additive manufacturing of aluminum 4047 alloy using response surface methodology.</u> | Prasad, R.,
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| 38. | <u>Exploring Empirical Mode Decomposition for Music Genre Classification Using Deep Learning</u> | Upadhyay, A.,
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| 39. | <u>Exploring the Classification of Crystal Structure of Perovskite Oxide Using Machine Learning and Deep Learning</u> | Checker, S.,
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pp. 901-906. |
| 40. | <u>Exploring the Wear Behaviour of Al6351-Gr Composite Reinforced with B4C, TiC, and WC Particles</u> | Ali, S.,
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| 42. | <u>Feature Extraction and Ranking using Fuzzy-Ksi for Network Intrusion Detection using a Krill Herd Optimized Neural Network</u> | Bhateja, I.,
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| 43. | <u>Feature Selection in Intrusion Detection using Jaccard's Needham Similarity Algorithm</u> | Kumar, K.,
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| 44. | <u>FuzzyBandit: An Autonomous Personalized Model Based on Contextual Multi-Arm Bandits Using Explainable AI</u> | Bansal, N.,
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| 45. | <u>Generative artificial intelligence: a systematic review and applications (Open Access)</u> | Sengar, S.S.,
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| 47. | <u>Ge-Se-Te based penrose photonic quasi-crystal fiber for SCG covering 2-21 μm MIR regime</u> | Khamaru, A.,
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| 48. | <u>Gravitational lensing of dark energy models and ΛCDM using observational data in loop quantum cosmology</u> | Kundu, R.,
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| 49. | <u>Harnessing Few-Shot Learning for EEG signal classification: a survey of state-of-the-art techniques and future directions (Open Access)</u> | Ahuja, C.,
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| 50. | <u>HDVF: Hazy object detection network based on variational features</u> | Singh, K.,
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| 52. | <u>Improved optical characteristics in BaBi2Nb2O9 ferroelectric ceramic infused with transition metal ion (W6+) and rare earth ions (Er3+/Yb3+)</u> | Banwal, A.,
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| 53. | <u>Influence of the odd-even effect of dicarboxylic acids as crosslinker on the physicochemical properties of polyvinyl alcohol</u> | Gautam, L.,
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| 54. | <u>Injectable mesquite gum and carboxymethyl chitosan hydrogel using schiff base crosslinks: a versatile platform for drug delivery in wound care</u> | Kumar, J.,
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| 55. | <u>Investigation of Heat Transfer Enhancement in a Tubular Heat Exchanger Through Experimentation with Alternate Materials</u> | Kumar, R.,
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| 57. | <u>MODELING AND IMPLEMENTATION OF PID CONTROLLER IN VEHICLE RIDE COMFORT IMPROVEMENT USING BOND GRAPH</u> | Batra, L.,
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| 59. | <u>Novel high speed low power comparators imbining Self-cascade preamplifier technique</u> | Mann, A.,
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| 62. | <u>Optimizing hybrid household indirect solar dryer with sinusoidal corrugated Collector: CFD simulations and thermal performance analysis</u> | Sharma, M.,
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| 63. | <u>Performance enhancement of a novel reduced cross-tied PV arrangement under irradiance mismatch scenarios</u> | Singh, R.,
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| 64. | <u>Physicochemical characterization of novel okra mucilage/hyaluronic acid-based oral disintegrating films for functional food applications</u> | Khatreja, K.,
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| 65. | <u>Preparation and Characterization of Sodium Alginate-Based Hydrogel for Delivery of Hydrophilic Drug Metformin Hydrochloride</u> | Shrila, M.,
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| 72. | <u>Sparkling Rural Community for Sustainable Growth: A Doable Prospect</u> | Singh, A.K.,
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| 73. | <u>Strategic Pseudo-Goal Perturbation for Deadlock-Free Multi-Agent Navigation in Social Mini-Games</u> | Jha, A.,
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| 74. | <u>Structural characterization and luminescence characteristics of Dy³⁺ doped Sr₉Y₂W₄O₂₄ phosphor for application in white-LEDs</u> | Kumari, S.,
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| 78. | <u>Thermochemical conversion of agricultural residue for the production of hydrogen, methane, and biofuels: A comprehensive overview</u> | Meena, P.K.,
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| 79. | <u>Thermodynamic investigation of a hydrogen enriched natural gas fueled HCCI engine for the efficient production of power, heating, and cooling</u> | Almatrafi, E.,
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| 80. | <u>Thermodynamic properties of In_xGa_{1-x}N double quantum wire in the presence of impurity and Rashba spin-orbit interaction</u> | Priyanka,
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