



SAPIENTIA

MAY 2025

A MONTHLY BULLETIN OF INTELLECTUAL
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- | | | | |
|-------|---|---|---|
| 1. | <u>A Compact Frequency and Pattern Reconfigurable Antenna for IoT Close Range Devices</u> | Ganesh, M.,
Raghava, N.S.,
Sharma, Y.,
Sabapathy, T. | Studies in Computational Intelligence, 1015, pp. 397-407. |
| <hr/> | | | |
| 2. | <u>A comparative study on weld-bead geometry of austenitic stainless-steel produced by cold metal transfer welding and pulse metal inert gas welding process</u> | Mishra, V.,
Yuvaraj, N.,
Vipin, V. | Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 239(2), pp. 900-913. |
| <hr/> | | | |
| 3. | <u>A comprehensive review on methane enrichment in biogas through the purification process using biomass-based adsorbents</u> | Meena, P.K.,
Pal, A. | Biomass Conversion and Biorefinery, 15(6), pp. 8287-8309. |
| <hr/> | | | |
| 4. | <u>A framework for classifying breast cancer via heterogenetic attention mechanism and optimized feature selection</u> | Swetha, A.V.S.,
Bala, M.,
Sharma, K. | Intelligent Data Analysis, 29(2), pp. 459-489. |
| <hr/> | | | |
| 5. | <u>A review of deep learning applications in weed detection: UAV and robotic approaches for precision agriculture</u> | Saini, P.,
Nagesh, D.S. | European Journal of Agronomy, 168, art. no. 127652. |

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-
- | | | | |
|----|--|--|--------------------------|
| 6. | <u>A review on breast cancer diagnostic techniques</u> | Mathur, P.,
Dhanekar, S.,
Malhotra, B.D. | Sensors and Diagnostics. |
|----|--|--|--------------------------|
-
- | | | | |
|----|---|--|---|
| 7. | <u>Adsorption mechanism of Phosgene gas onto the pristine hBN and Cu-decorated hBN: A DFT study</u> | Bhandari, A.,
Dua, P.,
Singh, M., (...),
Abouhawwash, M.,
Puri, N.K. | Journal of Physics and Chemistry of Solids, 204, art. no. 112716. |
|----|---|--|---|
-
- | | | | |
|----|--|---|---|
| 8. | <u>Adsorption of Cyanogen Chloride Gas Onto the Pristine and Copper-Decorated hBN Monolayer: A Comparative DFT Study</u> | Bhandari, A.,
Puri, N.K.,
Dua, P. | IEEE Sensors Journal, 25(7), pp. 11167-11175. |
|----|--|---|---|
-
- | | | | |
|----|--|-------------------------|---|
| 9. | <u>Advances in Negative Capacitance FinFET Technology: Insights into Design Innovations and Performance Enhancements</u> | Shubhda,
Chaujar, R. | International Conference on Signal Processing and Communication, ICSC, pp. 737-743. |
|----|--|-------------------------|---|
-
- | | | | |
|-----|--|--|--|
| 10. | <u>An ab-initio study of structural and topological phase transition in rare-earth yttrium monophosphide</u> | Agarwal, S.,
Devi, A.,
Pal, A.,
Yadav, R.,
Kumar, R.,
Singh,
M.Jung, K.-H. | Physics Letters, Section A: General, Atomic and Solid State Physics, 552, art. no. 130650. |
|-----|--|--|--|
-



-
- | | | | |
|-----|--|---|--|
| 11. | <u>An efficient technique for reversible data hiding using bidirectional histogram shifting and multistage embedding</u> | Kumar, S.,
Walia, G.S.,
Gupta, A. | Engineering Applications of Artificial Intelligence, 156, art. no. 110986. |
|-----|--|---|--|
-
- | | | | |
|-----|--|-------------------------|---|
| 12. | <u>An energy and cost-effective realization of high-performance single-layer vedic multiplier in quantum-dot cellular automata</u> | Chugh, H.,
Singh, S. | Physica Scripta, 100(6), art. no. 065112. |
|-----|--|-------------------------|---|
-
- | | | | |
|-----|---|---|--|
| 13. | <u>An Interplay Between Hypothalamic Microstructure, Systemic Metabolism and Gut Microbiome Composition in Male Rats at Hyperacute Timepoint Post TBI</u> | Arora, P.,
Kumari, M.,
Singh, K., (...),
Sandhir, R.,
Trivedi, R. | Journal of Neuroscience Research, 103(4), art. no. e70032. |
|-----|---|---|--|
-
- | | | | |
|-----|--|--|--|
| 14. | <u>Analyzing Digital Image Anti-Forensics Techniques and Countermeasures</u> | Agarwal, S.,
Kumar, R.,
Devi, A.,
Jung, K.-H. | International Conference on Advanced Communication Technology, ICACT, pp. 83-87. |
|-----|--|--|--|
-
- | | | | |
|-----|--|--------------------------|--|
| 15. | <u>Biogenic Nanoparticles from Phytochemicals: A New Frontier in fighting Antimicrobial Resistance and Biofilm Formation</u> | Ishika.,
Navneeta, B. | Research Journal of Biotechnology, 20(6), pp. 182-199. |
|-----|--|--------------------------|--|
-



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OF DTU)**

- | | | | |
|-------|---|--|---|
| 16. | <u>Bridged N-based ionic liquid and their application in synthesis of five membered N-heterocycles</u> | Chaudhary, A.,
Srivastava, R. | Tetrahedron, 183, art. no. 134721. |
| <hr/> | | | |
| 17. | <u>Comparative Assessment of MPPT Techniques for Optimizing Photovoltaic System Efficiency</u> | Dhir, R.,
Garg, R.,
Mahajan, P. | 1st International Conference on Sustainable Energy Technologies and Computational Intelligence: Towards Sustainable Energy Transition, SETCOM 2025. |
| <hr/> | | | |
| 18. | <u>Comparison of machine learning techniques for precision in measurement of glucose level in artificial pancreas</u>
<u>Open Access</u> | Yadav, V.K.,
Nilam. | Mathematical Methods in the Applied Sciences, 48(7), pp. 7595-7608. |
| <hr/> | | | |
| 19. | <u>Consequence of Ultrasonic Vibration-Assisted Cold Metal Transfer Welding Parameters on Metallurgical and Mechanical Properties of Ferritic Stainless-Steel-Welded Joints</u> | Sharma, A.,
Wattal, R.,
Niranjan, M.S. | Journal of Materials Engineering and Performance, art. no. 138545. |
| <hr/> | | | |
| 20. | <u>CorLMI-FSA: An Efficient Feature Selection Approach for Stress Classification Using Physiological Signals</u> | Shikha, S.,
Sethia, D.,
Indu, S. | 2025 5th International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies, ICAECT 2025. |

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- | | | | |
|-------|---|---|---|
| 21. | <u>Deciphering the Sustainable Stormwater Management Strategies for Urban Areas: a Review</u> | Yadav, S.,
Ambastha, S.,
Pipil, H.,
Haritash, A.K.,
Reddy, K.R. | Water Resources Management. |
| <hr/> | | | |
| 22. | <u>Diverse Machine Learning Approaches for Early Prediction of Heart Attack</u> | Jain, P.,
Malhotra, P. | Benchmarking. |
| <hr/> | | | |
| 23. | <u>Dynamic Response Experimental Analysis of High-Speed Rotors Equipped with Squeeze Film Dampers Under Varied Point Loading Conditions</u> | Gupta, R.K.,
Singh, R.C. | Journal of Vibration Engineering and Technologies, 13(4), art. no. 249. |
| <hr/> | | | |
| 24. | <u>E2 conjugating enzymes: A silent but crucial player in ubiquitin biology</u> | Parashar, S.,
Kaushik, A.,
Ambasta, R.K.,
Kumar, P. | Ageing Research Reviews, 108, art. no. 102740. |
| <hr/> | | | |
| 25. | <u>Encoding Data Using Slayer Exciter Circuits with Simultaneous Power and Information Transmission</u> | Yadav, E.,
Kumar, C.I. | Lecture Notes in Electrical Engineering, 1303, pp. 67-77. |



- | | | | |
|-------|---|---|---|
| 26. | <u>Energy Efficient 8T SRAM Cell for Enhancing Read/Write Assist Performances with Stability</u> | Rawat, R.M.,
Kumar, V. | 2025 IEEE 14th
International Conference
on Communication
Systems and Network
Technologies, CSNT 2025,
pp. 663-667. |
| <hr/> | | | |
| 27. | <u>Enhancing concrete durability and strength: An innovative approach integrating abrasion and cement slurry treatment for recycled coarse aggregates</u> | Panghal, H.,
Kumar, A. | Structural Concrete, 26(2),
pp. 1455-1476. |
| <hr/> | | | |
| 28. | <u>Enhancing the thermoelectric performance of Janus MoSSe monolayer via pressure</u> | Anisha,
Kumar, R.,
Singh, M.,
Srivastava, S.,
Kumar, T. | European Physical Journal
Plus, 140(4), art. no. 278. |
| <hr/> | | | |
| 29. | <u>Existence of dual topological phases in Sn-based ternary chalcogenides</u> | Kumar, R.,
Singh, M. | Physical Review B,
111(19), art. no. 195128. |
| <hr/> | | | |
| 30. | <u>FeO NPs-Loaded Guar Gum/Xanthan Gum-Based Hydrogel: A Sustainable Approach for Cationic Dye Removal</u> | Yadav, P.,
Kashyap, K.,
Warkar, S.G.,
Kumar, A. | ChemistrySelect, 10(19),
art. no. e202500293. |



- | | | | |
|-------|--|--|---|
| 31. | <u>Field Performance Assessment of a
1.34 kW Rooftop PV plant in Delhi:
Insight from two Comparative
Periods</u> | Avasthi, A.,
Garg, R.,
Mahajan, P. | 1st International
Conference on Sustainable
Energy Technologies and
Computational
Intelligence: Towards
Sustainable Energy
Transition, SETCOM 2025. |
| <hr/> | | | |
| 32. | <u>Gain and axial ratio bandwidth
enhancement of circularly
polarised antenna using PRMS</u> | Khandekar, R.,
Sipal, D. | AEU - International
Journal of Electronics and
Communications, 196,
art. no. 155797. |
| <hr/> | | | |
| 33. | <u>GMM-based Imbalanced
Fractional Whale Particle Filter
for Multiple Object Tracking in
Surveillance Videos
Open Access</u> | Ratre, A. | International Journal
of Computer Network
and Information
Security, 17(2), pp. 34-
50. |
| <hr/> | | | |
| 34. | <u>High-performance noise-tolerant
DTMOS Domino Schmitt trigger
logic gate design</u> | Jha, B.,
Pandey, R.,
Gupta, K. | Integration, 103, art. no.
102434. |
| <hr/> | | | |
| 35. | <u>High-performance polymer
nanocomposite coatings for
enhanced and sustainable corrosion
protection</u> | Anjum, A., Garg, R.,
Kashif, M., Eddy, N.O. | Inorganic Chemistry
Communications, 178, art. n.
114411. |



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CONTRIBUTIONS OF DTU)

- | | | | |
|-------|---|--|---|
| 36. | <u>Hybrid Anomaly Detection Framework for Matter-Enabled IoT Devices</u> | Krishan, V.,
Dhar, S.,
Sharma, K. | 2025 IEEE 14th
International Conference
on Communication
Systems and Network
Technologies, CSNT 2025,
pp. 397-402. |
| <hr/> | | | |
| 37. | <u>In silico analysis of deleterious p53 SNPs in Parkinson's Disease</u> | Vardhan, H.,
Kumar, P. | 2025 International
Conference on Ambient
Intelligence in Health
Care, ICAIHC 2025. |
| <hr/> | | | |
| 38. | <u>Integrated wearable PPG: a multi-vital sign monitoring based on group sparse mode decomposition framework in remote health care using PPG signal</u> | Pankaj,
Maan, P.,
Kumar, M.,
Kumar, A.,
Komaragiri, R. | Physical and Engineering
Sciences in Medicine, art.
no. 100024. |
| <hr/> | | | |
| 39. | <u>Investigation of microstructural, mechanical, and damping properties of B4C reinforced Al 7075 T6 Matrix</u> | Singh, R.K.,
Singh, R.C. | Journal of Reinforced
Plastics and Composites,
art. no.
07316844251337258. |
| <hr/> | | | |
| 40. | <u>KURM: A Novel Lane Identification System for Autonomous Robotics</u> | Lakshay,
Basit, A.,
Indu, S. | Lecture Notes in
Computer Science, 15619
LNCS, pp. 350-362. |



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CONTRIBUTIONS OF DTU)

- | | | | |
|-------|--|--|--|
| 41. | <u>Latch and Flip-Flop Design Using
Memristors and Transmission
Gates with Timer Counter
Implementation</u> | Rayer, A.,
Ganesh, M.,
Tanwar, L. | International Conference
on Signal Processing and
Communication, ICSC, pp.
845-849. |
| <hr/> | | | |
| 42. | <u>Late-time constraints on dynamical
dark energy models using DESI DR2,
Type Ia supernova, and CC
measurements</u> | Nagpal, R.,
Chaudhary, H.,
Gupta, H.,
Pacif, S.K.J. | Journal of High Energy
Astrophysics, 47, art. no.
100396. |
| <hr/> | | | |
| 43. | <u>Leveraging AI for sustainable drug
commercialization and advanced
therapy management in TVET
innovations in cell and gene therapy
and patient support</u> | Guttha, P.R.,
Whig, A.,
Whig, P. | Integrating AI and
Sustainability in
Technical and
Vocational Education
and Training (TVET), pp.
225-243. |
| <hr/> | | | |
| 44. | <u>Leveraging machine unlearning
for better medical care and
data protection in Healthcare
6.0</u> | Moses, S.,
Obermann, K.,
Gautam, K.,
Upadhyay, G.,
Datla, J. | Exploration of
Transformative
Technologies in
Healthcare 6.0, pp. 303-
328. |
| <hr/> | | | |
| 45. | <u>Linear and nonlinear
photoluminescence in Ho³⁺, Yb³⁺
doped CaBi₂Nb₂O₉ phosphor for
photonic applications</u> | Kumari, S.,
Rohilla, P.,
Anu, (...),
Rao, A.S.,
Prasad, A. | Journal of Physics D: Applied
Physics, 58(19), art. no.
195106. |



- | | | | |
|-------|---|---|--|
| 46. | <u>Modeling and experimental investigation of factors responsible for maximizing the betanin concentration by spiral-wound FO module using Na₂SO₄-based draw solution</u> | Mahawer, K.,
Tiwari, A.K.,
Mutto, A.,
Jain, M. | Food and Bioproducts Processing, 152, pp. 54-63. |
| <hr/> | | | |
| 47. | <u>Modified Sigma-Pi Neural Network for Dynamical System Identification</u> | Saini, K.,
Kumar, N.,
Kumar, R.,
Bhushan, B. | 3rd IEEE International Conference on Industrial Electronics: Developments and Applications, ICIDEA 2025. |
| <hr/> | | | |
| 48. | <u>Multi-Label Satellite Image Classification using Lightweight Vision Transformers</u> | Barman, T.,
Susan, S. | 2025 IEEE 14th International Conference on Communication Systems and Network Technologies, CSNT 2025, pp. 564-567. |
| <hr/> | | | |
| 49. | <u>Multimodal Biometric Recognition Using Fuzzified BTC with a Novel Hybrid JSO-CSO Algorithm</u> | Singh, I.,
Aggarwal, S.,
Gupta, S.,
Khandelwal, V.,
Verma, A. | Communications in Computer and Information Science, 2483 CCIS, pp. 210-223. |
| <hr/> | | | |
| 50. | <u>Multiplier-less Electronically Tunable Mem-capacitor Emulator with Experimental Results</u> | Shankar, C.,
Gupta, R.K. | Journal of Circuits, Systems and Computers, 34(6), art. no. 2550139. |



- | | | | |
|-------|--|--|--|
| 51. | <u>Nanogap Sequestered Dielectric Modulated Gate Engineered Carbon Nanotube Bio-FET based Bio-Sensor Open Access</u> | Sharma, B.,
Rewari, S.,
Hasija, Y. | ECS Journal of Solid State Science and Technology, 14(4), art. no. 047014. |
| <hr/> | | | |
| 52. | <u>N-Chlorosuccinimide: A Versatile Reagent in Organic Synthesis</u> | Nimbhal, A.,
Singh, R. | Current Organic Chemistry. |
| <hr/> | | | |
| 53. | <u>Negative capacitance FinFETs for low power applications: A review</u> | Lamba, A.,
Chaujar, R.,
Deen, M.J. | ECS Journal of Solid State Science and Technology, 14(4), art. no. 047014. |
| <hr/> | | | |
| 54. | <u>Numerical Simulation on Sensitivity Modulation in Nanowire MOSFET Detector for Biomedical Applications</u> | Das, A.,
Bhardwaj, A.,
Das, K., (...),
Kanaujia, B.K.,
Gupta, R.S. | Indian Journal of Pure and Applied Physics, 63(4), pp. 281-300. |
| <hr/> | | | |
| 55. | <u>ON SHARP RADIUS ESTIMATES FOR $S^*(\beta)$ AND A PRODUCT FUNCTION</u> | Kumar, S.S.,
Mundalia, M. | Mathematica Slovaca, 75(2), pp. 281-300. |



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CONTRIBUTIONS OF DTU)

- | | | | |
|-------|--|--|---|
| 56. | <u>OpTunedSMOTE: A novel model for automated hyperparameter tuning of SMOTE in software defect prediction</u> | Malhotra, R.,
Khan, K. | Intelligent Data Analysis,
29(3), pp. 787-807. |
| <hr/> | | | |
| 57. | <u>P4.OB-FAHP: prioritizing industry 4.0 barriers using fuzzy AHP—case of an Indian construction company</u> | Tayal, A.,
Agrawal, S.,
Yadav, R. | International Journal of
System Assurance
Engineering and
Management, art. no.
125223. |
| <hr/> | | | |
| 58. | <u>Performance analysis of multiple delayed signal cancellation (MDSC) for power quality improvement for fixed speed SEIG-based distributed generation</u>
<u>Open Access</u> | Shailly, D.,
Chittora, P.,
Singh, M. | Electrical Engineering, art.
no. 104378. |
| <hr/> | | | |
| 59. | <u>Performance enhancement of savonius turbine with the application of reorienting blade mechanism</u> | Pujari, P.C.,
Jain, A.,
Nath, D.S.,
Kumar, N. | Energy Sources, Part A:
Recovery, Utilization and
Environmental Effects,
47(1), pp. 9333-9350. |
| <hr/> | | | |
| 60. | <u>Photocatalytic degradation of crystal violet dye using phytofabricated zinc oxide nanoparticles from anthocyanin extract</u> | Yadav, S.,
Singh, P.,
Varshney, G., (...),
Singh, P.,
Kaur, R. | Microchemical Journal,
213, art. no. 113681. |

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(A MONTHLY BULLETIN OF INTELLECTUAL
CONTRIBUTIONS OF DTU)

-
- | | | | |
|-----|--|----------------------------|--|
| 61. | <u>QANet: quaternion attention network for video summarization</u> | Garg, V.,
Parihar, A.S. | Journal of Electronic Imaging, 34(2), art. no. 023028. |
|-----|--|----------------------------|--|
-
- | | | | |
|-----|---|--|--|
| 62. | <u>Synthesis of Graphene Quantum Dots (GQDs) from Paddy Straw for Bilirubin Detection</u> | Jain, M.,
Gupta, A.,
Arora, A.,
Patel, A. | Concurrency and Computation: Practice and Experience, 37(9-11), art. no. e70044. |
|-----|---|--|--|
-
- | | | | |
|-----|--|---|--|
| 63. | <u>Ranking of Efficient Fuzzy Portfolios by Hybrid MSBM-TOPSIS Technique Open Access</u> | Aggarwal, A.,
Gupta, A.,
Verma, R.,
Kumari, R. | Foundations of Computing and Decision Sciences, 50(1), pp. 1-26. |
|-----|--|---|--|
-
- | | | | |
|-----|--|--|---|
| 64. | <u>Recovery of valuable metals from spent lithium ion battery: Technologies, sustainability, and challenges in India</u> | Kumar, N.,
Mishra, A.,
Kumar, D. | Minerals Engineering, 227, art. no. 109312. |
|-----|--|--|---|
-
- | | | | |
|-----|--|---|---|
| 65. | <u>Reinforcement Learning in Simultaneous Localization and Mapping</u> | Kumar, A.,
Valluru, S.K.,
Rayguru, M.M. | Lecture Notes in Electrical Engineering, 1303, pp. 143-154. |
|-----|--|---|---|
-

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MAY 2025

(A MONTHLY BULLETIN OF INTELLECTUAL
CONTRIBUTIONS OF DTU)

-
- | | | | |
|-----|---|--|---|
| 66. | <u>Review on advancements in 3D/4D printing for enhancing efficiency, cost-effectiveness, and quality</u> | Solanki, A.,
Ranganath, M.S.,
Singholi, A.K.S. | International Journal on
Interactive Design and
Manufacturing, 19(5), pp.
3153-3169. |
|-----|---|--|---|
-
- | | | | |
|-----|---|--|---|
| 67. | <u>Revocable and Privacy-
Preserving CP-ABE Scheme for
Secure mHealth Data Access
in Blockchain</u> | Thakur, A.,
Ranga, V.,
Agarwal, R. | Concurrency and
Computation: Practice
and Experience, 37(9-11),
art. no. e70064. |
|-----|---|--|---|
-
- | | | | |
|-----|--|----------------------------|--|
| 68. | <u>Sarcasm detection with induced
sentimental cues using heuristic
search based on unconstrained
optimisation learning quantifying
callousness on social media</u> | Pokhriyal, H.,
Jain, G. | Neurocomputing, 645, art.
no. 130499. |
|-----|--|----------------------------|--|
-
- | | | | |
|-----|---|--------------------------|--|
| 69. | <u>SDHO-KGNN: An Effective
Knowledge-Enhanced Optimal
Graph Neural Network Approach
for Fraudulent Call Detection</u> | Mithoo, P.,
Kumar, M. | Transactions on Emerging
Telecommunications
Technologies, 36(4), art.
no. e70101. |
|-----|---|--------------------------|--|
-
- | | | | |
|-----|---|---------------------------|--|
| 70. | <u>SECOND AND THIRD ORDER
DIFFERENTIAL SUBORDINATION
FOR EXPONENTIAL FUNCTION</u> | Kumar, S.S.,
Verma, N. | Bulletin of the Korean
Mathematical Society,
62(2), pp. 455-467. |
|-----|---|---------------------------|--|
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MAY 2025

(A MONTHLY BULLETIN OF INTELLECTUAL
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- | | | | |
|-----|--|-------------------------|---|
| 71. | <u>Silicon slab waveguide based XOR and XNOR all optical logic gates</u> | Yadav, Y.,
Kalra, Y. | Journal of Micromechanics and Microengineering, 35(5), art. no. 055002. |
|-----|--|-------------------------|---|
-
- | | | | |
|-----|--|---|--|
| 72. | <u>SobelMNet: A Lightweight CNN based Approach for Median Filtering Detection in compressed images</u> | Kaushal, A.,
Kumar, R.,
Kumar, S. | International Conference on Advanced Communication Technology, ICACT, pp. 244-248. |
|-----|--|---|--|
-
- | | | | |
|-----|--|---------------------------------------|--|
| 73. | <u>Stabilization and Performance Analysis of Double Link-Rotary Inverted Pendulum Using LQR-I Controller</u> | Rai, A.,
Bhushan, B.,
Jaint, B. | 3rd IEEE International Conference on Industrial Electronics: Developments and Applications, ICIDeA 2025. |
|-----|--|---------------------------------------|--|
-
- | | | | |
|-----|--|---|---|
| 74. | <u>Structural, Judd-Ofelt and Photoluminescence Properties of Dy³⁺ Ions Doped SrO-MgO-Na₂O-Al₂O₃-B₂O₃ Glasses for Visible Laser and W-LED Applications</u> | Muralidhar, G.,
Shaik, M., Sailaja,
P., (...), Dedeepya,
G., Rao, A.S. | Journal of Electronic Materials, art. no. 110025. |
|-----|--|---|---|
-
- | | | | |
|-----|---|-----------------------------|---|
| 75. | <u>Studying Kangen Technology Dissemination in Indian Subcontinent: A Mathematical Modeling Framework</u> | Pandey, S.,
Aggrawal, D. | International Journal of Mathematical, Engineering and Management Sciences, 10(4), pp. 856-873. |
|-----|---|-----------------------------|---|
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MAY 2025

(A MONTHLY BULLETIN OF INTELLECTUAL
CONTRIBUTIONS OF DTU)

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- | | | | |
|-----|--|--------------------------|--|
| 76. | <u>Substantial enhancement of the electroactive phase and dielectric properties at low loading levels of SnO₂/MXene nanocomposite as a novel nanofiller in the PVDF matrix</u> | Sharma, G.,
Meena, D. | Materials Science in
Semiconductor Processing,
195, art. no. 109607. |
|-----|--|--------------------------|--|
-
- | | | | |
|-----|---|---|--|
| 77. | <u>Sustainable innovation in healthcare: The role of large language models</u> | Upadhyaya, A.,
Mishra, M.K.,
Nandal, S.,
Whig, A.,
Whig, P. | AI-Enabled Sustainable
Innovations in Education
and Business, pp. 277-298. |
|-----|---|---|--|
-
- | | | | |
|-----|---|---|--|
| 78. | <u>SWARMESH: Swarm-driven adaptive mesh for singular perturbation problems</u> | Panchal, A.,
Singh, A.K.,
Kumar, V.,
Mehra, M. | Swarm and Evolutionary
Computation, 96, art. no.
101964. |
|-----|---|---|--|
-
- | | | | |
|-----|--|----------------------------|--|
| 79. | <u>Traffic Engineering Optimization in Hybrid Software-Defined Networks: A Mixed Integer Non-Linear Programming Model and Heuristic Algorithm</u> | Mehraban, S.,
Yadav, R. | International Journal of
Network Management,
35(3), art. no. e70017. |
|-----|--|----------------------------|--|
-
- | | | | |
|-----|---|--|---|
| 80. | <u>Ultrasensitive terahertz metasurface for biomolecule detection based on toroidal dipole resonance</u> | Agarwal, P.,
Kishor, K.,
Sinha, R.K. | Journal of Applied
Physics, 137(19), art. no.
193103. |
|-----|---|--|---|
-



- | | | | |
|-------|--|--|---|
| 81. | <u>Unraveling the topological phase in
Zintl semiconductors RbZn₄X₃ (X = P,
As) through band engineering</u> | Kumar, R.,
Kumar, R.,
Sihi, A.,
Singh, M. | Journal of Physics
Condensed Matter, 37(18),
art. no. 185501. |
| <hr/> | | | |
| 82. | <u>Validating multi-objective
search algorithms to predict
faulty classes</u> | Malhotra, R.,
Singh, M.,
Khanna, M. | International Journal of
System Assurance
Engineering and
Management, 16(3), pp.
893-913. |
-



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