

List of Publications for Year 2024

Sr No	Publication Title	Author Name	Source title	DOI
1	Human Activity Recognition Using Supervised Machine Learning Classifiers	Azizuddin K.; Patel P.; Shah C.	Lecture Notes in Networks and Systems	10.1007/978-981-97-0744-7_7
2	Kinematic study of modified Jansen linkage for development of a hexapod robot	Bharadia N.; Panchasara S.; Bhavsar K.; Shah R.; Parmar U.; Bhatt P.	AIP Conference Proceedings	10.1063/5.0182910
3	Adsorption of Pb(II) and Cd(II) by functionalized graphene oxide (GO-MBT): Mechanisms, antibacterial activity, and DFT studies	Bhardwaj M.; Tewari S.; Kumari N.; Bhardwaj A.; Misra N.; Shukla S.; Dwivedi J.; Sharma S.	Inorganic Chemistry Communications	10.1016/j.inoche.2024.112464
4	Sustainability in Electromagnetic Metamaterials: Synthesis, Applications, and Future Directions with Challenges	Bhavsar K.; Ahmed S.; Pal Singh Pawar M.; Vivek Kumar C.; Revathi V.; Singh N.; Prasad S.V.S.	E3S Web of Conferences	10.1051/e3sconf/202455201100
5	Unlocking the potential of biosurfactants: Innovations in metabolic and genetic engineering for sustainable industrial and environmental solutions	Chabhadiya S.; Acharya D.K.; Mangrola A.; Shah R.; Pithawala E.A.	Biotechnology Notes	10.1016/j.biotno.2024.07.001
6	Perceived Consequences of Micro-Inequity in Workplace for a Sustainable Workforce: A Study on Indian IT Solutions and BPO Professionals	Chatterjee I.; Bhattacharyya S.; Chakrabarti S.	Perspectives in Human Resources	10.4324/9781032668925-13
7	Rainfall Prediction in Diverse Indian Regions Using Machine Learning Approaches	Darji M.; Dave J.A.	Lecture Notes in Networks and Systems	10.1007/978-981-97-6588-1_20
8	Evaluation of the time, labor, and money required for manual and automated nucleic acid (RNA) isolation for the detection of SARS-COV-2 by QRT-PCR using the qiamp viral RNA mini kit and kingfisher flex	Dave N.H.; Roat C.	Indian Journal of Microbiology Research	10.18231/j.ijmr.2024.009
9	Accelerating Fempreneurship in Pharma and Healthcare	Dayaramani R.	Pharma Times	NA
10	Mesoporous silica supported ionic liquid materials with high efficacy for CO2 adsorption studies	Jadav D.; Pandey M.; Bhojani A.K.; Amen T.W.M.; Tsunoji N.; Singh D.K.; Bandyopadhyay M.	Journal of Ionic Liquids	10.1016/j.jil.2024.100102

11	Assessing Eco-Friendly Alternatives: Composite Fibers and Recycled Plastics for Sustainable Impact and Efficiency	Katre R.; Bhavsar K.; Salaam A.; Rao G.M.; Anandhi R.J.; Singla A.; Mahenderreddy M.	E3S Web of Conferences	10.1051/e3sconf/202455201089
12	Anticancer Potential of the S-Heterocyclic Ring Containing Drugs and its Bioactivation to Reactive Metabolites	Maji S.; Debnath B.; Panda S.; Manna T.; Maity A.; Dayaramani R.; Nath R.; Khan S.A.; Akhtar M.J.	Chemistry and Biodiversity	10.1002/cbdv.202400473
13	Performance analysis of triple basin solar still with energy-exergy analysis approach	Mevada D.; Dileep K.M.; Pavithra G.; Khatua L.; Gupta P.; Lakkimsetty N.R.; Shaik F.; Bhargav H.; Chan C.K.; Patel M.	Applied Chemical Engineering	10.59429/ace.v7i3.5518
14	Insights from clinical trials: New evidence supports surgical interventions over drug therapies for atrial fibrillation	Modi A.D.; Sharma A.; Modi D.M.	Medicine in Drug Discovery	10.1016/j.medidd.2024.100182
15	Epitranscriptomics and cervical cancer: the emerging role of m6A, m5C and m1A RNA modifications	Modi A.D.; Zahid H.; Southerland A.C.; Modi D.M.	Expert Reviews in Molecular Medicine	10.1017/erm.2024.20
16	Nanogel-mediated therapeutic delivery across blood-cerebrospinal fluid and blood-spinal cord barriers	Modi D.M.; Modi A.D.	Brain Disorders	10.1016/j.dscb.2024.100151
17	Comparatively Study of Non-Destructive test with different methods in various curing days	Pahade C.; Parmar U.; Salaam A.; Rao D.S.N.M.; Manjunatha; Singla A.; Rambabu G.V.	E3S Web of Conferences	10.1051/e3sconf/202455201090
18	ECC-Based Hybrid Approach for Data Security for MANET	Parmar H.; Dave M.	Lecture Notes in Networks and Systems	10.1007/978-981-99-9486-1_27
19	Towards Sustainable Ceramic Forming: Techniques, Materials, and Applications in Evolving Paradigms	Parmar U.; Ahmed S.; Vayas R.; Lavanya C.; Manjunatha; Singh N.; Kumar H.	E3S Web of Conferences	10.1051/e3sconf/202455201099

20	Machine Learning Applications in Early Detection of Hepatic Steatosis Disease	Patel V.R.; Dhanesha P.; Soni P.D.	Proceedings of the 3rd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2024	10.1109/ICAAIC60222.2024.10575821
21	Drug-induced photosensitivity	Pawar B.; Wankhede Y.; Banth G.; Tekade M.; Gupta T.; Dayaramani R.; Tekade R.K.	Public Health and Toxicology Issues in Drug Research, Volume 2: Toxicity and Toxicodynamics	10.1016/B978-0-443-15842-1.00016-8
22	Challenges and barriers of rooftop solar adaption-a study from rural part of Gujarat India using weighted average method and Garrett ranking method	Prajapati H.; Patel C.; Gupta S.; Singh G.K.; Gupta D.K.	AIP Conference Proceedings	10.1063/5.0183781
23	Synthesis, Characterization, and Biological Studies of Metal Complexes of Dicoumarol Derivatives of Gatifloxacin	Prajapati N.; Gautam P.; Chaturvedi S.; Gautam D.; Panchal M.; Chawda N.	Indian Journal of Heterocyclic Chemistry	10.59467/IJHC.2024.34.15
24	Improvement of Power Quality in Single Stage Grid Connected PV System with Novel Configuration of Multilevel Inverter	Purohit P.J.; Jadeja M.G.; Jotangiya V.G.; Chauhan P.H.; Vaghela D.J.	SSRG International Journal of Electrical and Electronics Engineering	10.14445/23488379/IJEEE-V11I4P125
25	Drone Detection and Tracking using Electro Optics	Rahulkumar P.; Yashwantkumar P.; Shrimali D.; Bhavsar K.; Parmar U.	AIP Conference Proceedings	10.1063/5.0208395
26	Dielectric Characterization and Machine Learning-Based Predictions in Polymer Composites with Mixed Nanoparticles	Rajendra Kumar P.; Madhav Rao B.; Maddireddy C.K.R.; Thakor S.; Vaja C.R.; Prakash K.; Jain P.	Journal of Macromolecular Science, Part B: Physics	10.1080/00222348.2024.2372522
27	Retrieval of crop biophysical-biochemical variables from airborne AVIRIS-NG data using hybrid inversion of PROSAIL-D	Ravi J.; Nigam R.; Bhattacharya B.K.; Desai D.; Patel P.	Advances in Space Research	10.1016/j.asr.2022.11.047

28	Bio Materials, Biocompatibility & its Advancements in Medical	Salaam A.; Thakur S.; Prajapati B.K.; Davala K.; Rajalakshmi B.; Nijhawan G.; Saha A.	E3S Web of Conferences	10.1051/e3sconf/202455201092
29	Smote-Based Heart Disease Detection Utilizing AI and MI Stacking Classifiers	Shah J.; Shah C.; Patel P.	Lecture Notes in Networks and Systems	10.1007/978-981-99-8111-3_31
30	Identification of Faults for Centrifugal Pump using Wavelet Analysis with Machine Learning Classifiers	Shah M.; Bhatt P.; Bhavsar K.; Parmar U.	AIP Conference Proceedings	10.1063/5.0208642
31	Optimization of 3D Printing Process Parameters and Their Influence on Part Characteristic	Shah R.; Bhavsar K.; Parmar U.	Lecture Notes in Mechanical Engineering	10.1007/978-981-97-4324-7_23
32	Endophytic fungi: A natural tool for plant growth promotion and sustainable agriculture	Shah R.; Patel N.; Yagnik S.M.; Raval V.H.	Endophytic Fungi: the Full Story of the Untapped Treasure	10.1016/B978-0-323-99314-2.00016-4
33	Role of Quantum Dots and Nanostructures in Photovoltaic Energy Conversion	Shah R.; Saha A.; Najah Z.; Prakash A.; Reddy U.; Nagpal A.; Haripriya V.	E3S Web of Conferences	10.1051/e3sconf/202455201096
34	Fault Identification for Permanent Magnet Synchronous Generators of Wind Turbines by Wavelet Signal Processing with Machine Learning Classification Algorithms	Shrimali D.; Vegad S.; Bhavsar K.; Parmar U.	AIP Conference Proceedings	10.1063/5.0208644
35	Optimizing Multilevel Inverter Performance Through Comprehensive Analysis of Carrier-Based Pulse Width Modulation Techniques	Shyara N.D.; Mansoori N.N.; Dhola M.L.; Raval D.Y.	2024 IEEE 3rd International Conference on Electrical Power and Energy Systems, ICEPES 2024	10.1109/ICEPES60647.2024.10653494
36	Multi-Class Classification of Lung Cancer Detection Using Deep Learning Model	Singh M.; Shah C.; Patel P.	Lecture Notes in Networks and Systems	10.1007/978-981-99-8111-3_32
37	Sustainable Solutions in Sound Shielding: Harnessing Metamaterials for Acoustic Cloaking	Singh Thapa D.; Najah Z.; Khosla V.; Ravinder R.; Swathi B.; Nagpal A.; Cheeli A.K.	E3S Web of Conferences	10.1051/e3sconf/202455201097

38	Edge Detection Using Watershed Algorithm for Polycystic Ovary Image Analysis: A Comprehensive Study	Solanki K.; Undavia J.; Vaghela R.; Desai M.; Dudhagra C.	Communications in Computer and Information Science	10.1007/978-3-031-59107-5_3
39	Biohydrometallurgical Metal Recycling/Recovery from E-waste: Current Trend, Challenges, and Future Perspective	Thacker S.C.; Tipre D.R.; Dave S.R.	Management of Electronic Waste: Resource Recovery, Technology and Regulation	10.1002/9781119894360.ch170
40	Theoretical Assessment for Weather Nowcasting Using Deep Learning Methods	Upadhyay A.B.; Shah S.R.; Thakkar R.A.	Archives of Computational Methods in Engineering	10.1007/s11831-024-10096-5
41	A review: carbon nanotubes composite to enhance thermal & electrical properties for the space applications	Vartak D.A.; Ghotekar Y.; Bhatt P.M.; Makwana B.; Shah H.N.; Vadher J.A.	Australian Journal of Mechanical Engineering	10.1080/14484846.2022.2122192
42	Design of the tie bar for the 250 tonne injection moulding machine	Vegad S.	AIP Conference Proceedings	10.1063/5.0183250
43	Identification of faults in ball bearing using maximum overlap discrete wavelet transform and mutual information	Vegad S.; Panchal J.; Bhavsar K.; Parmar U.	AIP Conference Proceedings	10.1063/5.0182911
44	Optimization of 3D printing process parameters using design of experiments for ABS material	Yadav A.; Bhavsar K.; Shah R.; Parmar U.; Bhatt P.	AIP Conference Proceedings	10.1063/5.0182913
45	Herbal Interactions with Cardiac Medications: A Comprehensive Review of Potential Interactions between Herbal Drugs and Commonly Prescribed Cardiac Medications	Jyothi, MV; Babu, AVL; Wagh, VD; Rasheed, A; Dayaramani, R; Panigrahy, UP; Wal, P; Gunjal, SD	CURRENT DRUG SAFETY	10.2174/0115748863289321240424063819
46	XGBoost Regression Analysis of Dielectric Properties of Epoxy Resin with Inorganic Hybrid Nanofillers	Panchal, P; Shingala, B; Thakor, S; Jain, P; Vaja, CR; Joshi, A; Shah, KN; Rana, VA; Pathak, J	JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS	10.1080/00222348.2024.2347746

47	Kinematic analysis-based comparative study and development of modified Theo Jansen linkage (MTJL)	Panchasara, S; Bharadia, N; Gajjar, J; Barot, P; Bhavsar, K; Shah, RS; Parmar, U; Bhatt, P	INTERNATIONAL JOURNAL OF ADVANCES IN ENGINEERING SCIENCES AND APPLIED MATHEMATICS	10.1007/s12572-024-00372-9
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