

List of Publications for Year 2023

Sr No	Publication Title	Author Name	Source title	DOI
1	Analyzing the thermal performance of radiator using nanoparticles of Al ₂ SiO ₅ immersed nanofluids	Bhimani V.; Patel D.; Darji Y.; Oza A.D.; Patel M.; Ingole S.	International Journal on Interactive Design and Manufacturing	10.1007/s12008-023-01325-5
2	A Comparative Study of Practice, Perception, and Attitude of Undergraduate Healthcare Students towards Toothbrush Selection, Maintenance and Replacement in RAS Al-Khaimah, United Arab Emirates	Bhongade B.A.; Ali A.A.; Makade C.S.; Dayaramani R.A.	Journal of Contemporary Dental Practice	10.5005/jp-journals-10024-3616
3	Explainable AI for Intrusion Prevention: A Review of Techniques and Applications	Chandre P.R.; Vanarote V.; Patil R.; Mahalle P.N.; Shinde G.R.; Nimbalkar M.; Barot J.	Lecture Notes in Networks and Systems	10.1007/978-981-99-3758-5_31
4	Review of Deep Learning: A New Era	Darji M.; Dave J.A.; Rathod D.B.	Lecture Notes in Networks and Systems	10.1007/978-981-19-5331-6_33
5	Thermal Decomposition of 3-Nitro-1,2,4-Triazole-5-One (NTO) and Nanosize NTO Catalyzed by NiFe ₂ O ₄	Dave P.N.; Sirach R.; Thakkar R.; Chaturvedi S.	Arabian Journal for Science and Engineering	10.1007/s13369-022-07208-3
6	Automated GUI Testing for Enhancing User Experience (UX): A Survey of the State of the Art	Deshmukh P.S.; Date S.S.; Mahalle P.N.; Barot J.	Lecture Notes in Networks and Systems	10.1007/978-981-99-5652-4_55
7	Pathfinding Visualizer: A Survey of the State-of-Art	Dube R.; Joshi A.; Bhagwat S.; Mahalle P.N.; Barot J.	Lecture Notes in Networks and Systems	10.1007/978-981-99-3761-5_14
8	Intelligent and Conventional Methods for SoC and SoH Estimation	Gandhi R.; Jha A.; Bhavsar K.	Lecture Notes in Networks and Systems	10.1007/978-981-99-3761-5_36
9	LabVIEW Software for Design and Implementation of Particle Swarm Optimization Tuned Controller for the Climate Control of Greenhouse System	Gandhi S.V.; Thakker M.; Gandhi R.	Smart Innovation, Systems and Technologies	10.1007/978-981-19-3571-8_39

10	Quantum Key Distribution and Blockchain Based Secure Authentication in Medical Cyber-Physical Systems	Gawali P.P.; Mahalle P.N.; Shinde G.R.; Sable N.P.; Takale D.G.; Barot J.	Lecture Notes in Networks and Systems	10.1007/978-981-99-6568-7_54
11	OPTIMIZATION OF NANO FILLERS CONTENT TO FABRICATE ELECTRICALLY CONDUCTIVE CARBON FIBER REINFORCED POLYMER FOR SPACE USE	Ghotekar Y.; Vartak D.; Deshpande N.; Makwana B.A.; Bhatt P.; Upadhyay M.; Lal A.K.	Composites: Mechanics, Computations, Applications	10.1615/CompMechComputApplIntJ.2022044938
12	A Perspective of 5G Network and Associated Impact in India	Gour S.; Sahu H.; Sharma N.; Barot J.	Lecture Notes in Networks and Systems	10.1007/978-981-99-5652-4_53
13	Design of Smooth Supersonic Nozzle Profile Using Method of Characteristics	Hashim S.A.; Dharmalingam S.	AIP Conference Proceedings	10.1063/5.0164552
14	Bioactive Thiosemicarbazone Coordination Metal Complexes: Synthesis, Characterization, Theoretical analysis, Biological Activity, Molecular Docking and ADME analysis**	Jain P.; Vishvakarma V.K.; Singh P.; Yadav S.; Kumar R.; Chandra S.; Kumar D.; Misra N.	Chemistry and Biodiversity	10.1002/cbdv.202300760
15	Role of schiff base metal complexes in the fight against tumors and cancer	Misra N.	Structural and Biological Applications of Schiff Base Metal Complexes	10.1201/9781003291459-7
16	KCCs, NKCCs, and NCC: Potential targets for cardiovascular therapeutics? A comprehensive review of cell and region specific expression and function	Modi A.D.; Khan A.N.; Cheng W.Y.E.; Modi D.M.	Acta Histochemica	10.1016/j.acthis.2023.152045
17	The Role of Akt Signalling Pathway in Neurological and Cardiovascular Pathologies	Modi A.D.; Mahoon A.A.; Modi D.M.	European Journal of Biology	10.26650/EURJBIOL.2023.1240220
18	Polysaccharide-based nanogels and ocular drug delivery: The emerging nanocarrier for crossing blood retinal barrier	Modi D.M.; Modi A.D.	Carbohydrate Polymer Technologies and Applications	10.1016/j.carpta.2023.100331
19	A perspective on next generation nanomedicine: Nanogels for therapeutic delivery in biomedical research	Modi D.M.; Modi A.D.	Brain Disorders	10.1016/j.dscb.2023.100089

20	Review Analysis on Fault Classifications, Detection and Protection for Solar Photo Voltaic System	Modi J.; Chudasama K.	AIP Conference Proceedings	10.1063/5.0183625
21	An open source smart home management system based on IOT	Naik K.; Patel S.	Wireless Networks	10.1007/s11276-018-1884-z
22	An Automated Approach for Producing and Publishing Hindi News Bulletin using Bot	Pal K.S.; Patel P.C.	AIP Conference Proceedings	10.1063/5.0169039
23	Development of an Efficient Alternative Synthesis of the Endothelin Receptor Antagonist Bosentan	Panchal J.; Misra N.; Devi M.; Sharma A.; Jain S.; Jain P.; Dwivedi J.; Sharma S.	Organic Preparations and Procedures International	10.1080/00304948.2023.2170665
24	Imidazolium-based ionic liquid supported layered silicate HUS-7 as an active catalyst for ring opening of oxiranes	Pandey D.K.; Jadav D.; Tsunoji N.; Singh D.K.; Dharaskar S.; Bandyopadhyay M.	Journal of Materials Science	10.1007/s10853-023-08661-7
25	Forecasting Number of Indian Startups using Supervised Learning Regression Models	Pandya D.D.; Patel A.K.; Purohit J.M.; Bhuptani M.N.; Degadwala S.; Vyas D.	6th International Conference on Inventive Computation Technologies, ICICT 2023 - Proceedings	10.1109/ICICT57646.2023.10134480
26	Unveiling the Power of Collective Intelligence: A Voting-based Approach for Dementia Classification	Pandya D.D.; Patel P.A.; Patel H.H.; Goswami A.J.; Degadwala S.; Vyas D.	7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2023 - Proceedings	10.1109/I-SMAC58438.2023.10290165
27	Multi-Class Classification of Vector Borne Diseases using Convolution Neural Network	Pandya D.D.; Patel S.K.; Qureshi A.H.; Goswami A.J.; Degadwala S.; Vyas D.	Proceedings of the 2nd International Conference on Applied Artificial Intelligence and Computing, ICAIC 2023	10.1109/ICAIC56838.2023.10140654

28	Thermal decomposition and kinetic parameter of Bridgman-grown $\text{In}_2\text{Se}_3-x \text{ Sb}_x$ ($x = 0.3$) single crystal	Patel P.J.; Vyas S.M.; Patel V.A.; Pavagadhi H.B.; Verasada R.	Molecular Crystals and Liquid Crystals	10.1080/15421406.2023.2166190
29	Liver Diseases' Stage Detection Using Hybrid Technique of Supervised Machine Learning Classifiers	Patel S.; Shah C.; Patel P.	Lecture Notes in Networks and Systems	10.1007/978-981-99-4932-8_54
30	Classification of Attractiveness of Clothing Using Convolution Neural Network	Patel S.; Shah K.; Prajapati A.; Dave J.	Lecture Notes in Networks and Systems	10.1007/978-981-19-5221-0_43
31	Skin Cancer Image Augmentation Techniques Using AI: A Survey of the State-of-the-Art	Patil A.Y.; Ingle Y.S.; Shaikh N.F.; Mahalle P.; Barot J.	Lecture Notes in Networks and Systems	10.1007/978-981-99-4932-8_52
32	A Comprehensive Review of Deep Learning Techniques for Brain Tumor Prediction	Raghunath Mutkule P.; Sable N.P.; Mahalle P.N.; Shinde G.R.; Barot J.	Lecture Notes in Networks and Systems	10.1007/978-981-99-5652-4_50
33	Exploring Drug Sentiment Analysis with Machine Learning Techniques	Rathod D.; Patel K.; Goswami A.J.; Degadwala S.; Vyas D.	6th International Conference on Inventive Computation Technologies, ICICT 2023 - Proceedings	10.1109/ICICT57646.2023.10134055
34	Monitor the Effectiveness of Cardiovascular Disease Illness Diagnostics Utilizing AI and Supervised Machine Learning Classifiers	Rathod D.B.; Patel Y.; Jethava A.; Gohel N.; Suthar D.; Varia D.; Shah N.; Barot J.	Smart Innovation, Systems and Technologies	10.1007/978-981-99-3982-4_20
35	Stress Analysis of Carbon Composite Material for Space-Based RF Component Using CAE Simulation	Shah A.; Soni A.; Vartak D.; Bhatt P.	Lecture Notes in Mechanical Engineering	10.1007/978-981-19-4918-0_3
36	Heart Disease Diagnosis Detection Based on Chest Pain Using Machine Learning Stacking Classifier	Shah J.; Shah C.; Patel P.	Lecture Notes in Networks and Systems	10.1007/978-981-99-6568-7_55

37	Big Data Analysis of Cognitive Cloud Computing Based Intelligent Healthcare System	Shah N.; Saxena A.; Kumar Y.	2023 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, UPCON 2023	10.1109/UPCON59197.2023.10434417
38	Effectiveness of a booster dose of COVID-19 vaccine	Shah N.H.; Satia M.H.	Mathematical and Computational Modelling of Covid-19 Transmission	NA
39	Advancement and Application of Theo Jansen Linkages: A Review	Shah R.; Bhavsar K.; Patel D.; Shah D.; Parmar U.; Bhatt P.	AIP Conference Proceedings	10.1063/5.0169581
40	A comparative study of kinematic analysis between conventional Theo Jansen mechanism and modified Theo Jansen mechanism developed using ABS for the development of spyder robot	Shah R.; Shah D.; Panchal N.; Bhavsar K.; Parmar U.; Bhatt P.	Materials Today: Proceedings	10.1016/j.matpr.2022.09.091
41	Study of Architectural Designs for Underwater Wireless Sensors Network in View of Underwater Applications	Shelar P.A.; Mahalle P.N.; Shinde G.R.; Barot J.	Lecture Notes in Networks and Systems	10.1007/978-981-99-3758-5_47
42	Lung Cancer Prediction Using Machine Learning Models	Singh M.; Shah C.; Patel P.	Lecture Notes in Networks and Systems	10.1007/978-981-99-5652-4_54
43	Myricetin and its derivatives; potential therapeutic effect on human health: a review	Sinkar S.; Kombe S.; Malik N.; Dhuldhaj U.; Pandya U.	Arabian Journal of Medicinal and Aromatic Plants	10.48347/IMIST.PRSM/ajmap-v9i2.36362
44	Optimization of GTAW process parameters for deposition of nickel-based hardfacing alloy using Taguchi method	Suthar F.V.; Shah H.N.; Parmar R.N.; Chaudhari M.D.; Bhatt P.M.; Chaudhury S.K.	Welding in the World	10.1007/s40194-023-01540-4

45	A Highly Selective Pyrene Appended Oxacalixarene Receptor for MNA and 4-NP Detection: an Experimental and Computational Study	Upadhyay H.; Harikrishnan U.; Bhatt D.; Dhadnekar N.; Kumar K.; Panchal M.; Trivedi P.; GaurangSindhav; Modi K.	Journal of Fluorescence	10.1007/s10895-023-03470-2
46	CHEF induced fluorometric sensing of Al ³⁺ and picric acid with bioimaging in human peripheral blood mononuclear cell	Vora M.; Dey S.; Kongor A.; Panchal M.; Verma A.; Trivedi P.; Sindhav G.; Jain V.	Journal of Photochemistry and Photobiology A: Chemistry	10.1016/j.jphotochem.2022.114253
47	Geothermal-solar integrated Multistage Flash Distillation Cogeneration system: A cleaner and sustainable solution	Yadav K.; Gudjonsdottir M.; Axelsson G.; Ómarsdóttir M.; Sircar A.; Shah M.; Yadav A.	Desalination	10.1016/j.desal.2023.116897
48	Annonaceous acetogenins as promising DNA methylation inhibitors to prevent and treat leukemogenesis - an in silico approach	Subaramaniyam, U; Ramalingam, D; Balan, R; Paital, B; Sar, P; Ramalingam, N	JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS	10.1080/07391102.2023.2297010
49	Fluorescence Quenching and the Chamber of Nitroaromatics: A Dinaphthoylated Oxacalix[4]arene's (DNOC) Adventure Captured through Computational and Experimental Study	Desai, V; Panchal, M; Parikh, J; Modi, K; Vora, M; Panjwani, F; Jain, VK	JOURNAL OF FLUORESCENCE	10.1007/s10895-023-03505-8
50	Bioactive Thiosemicarbazone Coordination Metal Complexes: Synthesis, Characterization, Theoretical analysis, Biological Activity, Molecular Docking and ADME analysis	Jain, P; Vishvakarma, VK; Singh, P; Yadav, S; Kumar, R; Chandra, S; Kumar, D; Misra, N	CHEMISTRY & BIODIVERSITY	10.1002/cbdv.202300760
51	Diagnosis of Denizen Cirrhosis Disorders Using Supervised Machine Learning Classifiers	Patel, S; Shah, C; Patel, P; Rathod, D	PROCEEDINGS OF SEVENTH INTERNATIONAL CONGRESS ON INFORMATION AND COMMUNICATION TECHNOLOGY, VOL 4	10.1007/978-981-19-2397-5_72