

## List of Publications for Year 2022

Sr No	Row Labels	Author Name	Source title	DOI
1	A coupled ground heat flux-surface energy balance model of evaporation using thermal remote sensing observations	Bhattacharya B.K.; Mallick K.; Desai D.; Bhat G.S.; Morrison R.; Clevery J.R.; Woodgate W.; Beringer J.; Cawse-Nicholson K.; Ma S.; Verfaillie J.; Baldocchi D.	Biogeosciences	10.5194/bg-19-5521-2022
2	Nano Size NiCuZnFe <sub>2</sub> O <sub>4</sub> Tri Metal Spinel Ferrite: Synthesis, Characterizations and Additive for Thermolysis of Ammonium Perchlorate	Dave P.; Thakkar R.; Sirach R.; Badgujar D.; Deshpande M.; Chaturvedi S.	ChemistrySelect	10.1002/slct.202103846
3	Biological and chemical impact of nanocellulose: current understanding	Dave P.N.; Chaturvedi S.	Industrial Applications of Nanocrystals	10.1016/B978-0-12-824024-3.00006-3
4	Kinetics of the thermolysis of 3-nitro-2,4-dihydro-3H-1,2,4-triazol-5-one (NTO) and nanosize NTO the presence of nickel-zinc-cobalt ferrite	Dave P.N.; Sirach R.; Chaturvedi S.	International Journal of Chemical Kinetics	10.1002/kin.21603
5	Kinetic investigation of the thermal decomposition of both 3-nitro-2,4-dihydro-3H-1,2,4-triazol-5-one (NTO), and nNTO in the presence of nickel zinc copper ferrite	Dave P.N.; Sirach R.; Chaturvedi S.; Thakkar R.	Results in Chemistry	10.1016/j.rechem.2022.100645
6	The catalytic effect of CoCuZnF on the thermal decomposition of 3-nitro-2,4-dihydro-1,2,4-triazol-5-one (NTO) and nanosize NTO	Dave P.N.; Sirach R.; Chaturvedi S.; Thakkar R.; Deshpande M.P.	Materials Letters: X	10.1016/j.mlblux.2022.100159
7	Effect of copper ferrite (CuFe <sub>2</sub> O <sub>4</sub> ) in the thermal decomposition of modified nitrotriazolone	Dave P.N.; Thakkar R.; Sirach R.; Chaturvedi S.	Materials Advances	10.1039/d2ma00250g
8	Stock Market (BSE) Prediction Using Unsupervised Sentiment Analysis and LSTM: A Hybrid Approach	Devani D.; Patel M.	Lecture Notes in Networks and Systems	10.1007/978-981-16-6407-6_8

9	Material Properties and Tool selection for Friction Stir Welding: A Review	Dharmalingam S.; Donga A.P.; Prajapati C.R.; Patel A.D.; Babariya P.R.	2022 International Conference on Intelligent Controller and Computing for Smart Power, ICICCS 2022	10.1109/ICICCS53532.2022.9862389
10	Microsoft Malware Detection using Machine Learning	Garg A.; Tahilramani N.; Chauhan P.; Patel R.	Proceedings - 2022 6th International Conference on Intelligent Computing and Control Systems, ICICCS 2022	10.1109/ICICCS53718.2022.9788420
11	Estimating regional-scale daytime net surface radiation in cloudless skies from GEO-LEO satellite observations using data fusion approach	Gharekhan D.; Nigam R.; Bhattacharya B.K.; Desai D.; Patel P.	Journal of Earth System Science	10.1007/s12040-021-01806-9
12	Ordered silica matrices supported ionic liquids as highly efficient catalysts for fine chemical synthesis	Jadav D.; Pandey D.K.; Patil T.; Singh D.K.; Dharaskar S.; Bandyopadhyay R.; Tsunoji N.; Kumar R.; Bandyopadhyay M.	Journal of Porous Materials	10.1007/s10934-022-01312-3
13	Co(II) and Ni(II) Complexes of a Heterocyclic Ligand: Synthesis, Characterization, Docking and Biological Activity	Jain P.; Vishvakarma V.K.; Singh P.; Chandra S.; Kumar D.; Misra N.	Iranian Journal of Science and Technology, Transaction A: Science	10.1007/s40995-022-01312-7
14	3D Printing Technology in Aerospace Industry – A Review	Karkun M.S.; Dharmalingam S.	International Journal of Aviation, Aeronautics, and Aerospace	10.15394/ijaaa.2022.1708
15	Cryptography: Recent research trends of encrypting mathematics	Kikani R.J.; Verma K.; Navalakhe R.; Shrivastava G.; Shrivastava V.	Materials Today: Proceedings	10.1016/j.matpr.2021.09.378
16	Green synthesis of silver nanoparticles using dietary antioxidant rutin and its biological contour	Kubavat K.; Trivedi P.; Ansari H.; Kongor A.; Panchal M.; Jain V.; Sindhav G.	Beni-Suef University Journal of Basic and Applied Sciences	10.1186/s43088-022-00297-x

17	Multiphase Computational Fluid Dynamics Simulation of Air and Fuel Reactors of Chemical Looping Combustion	Kumar P.; Parwani A.K.; Vitankar V.	Heat Transfer Engineering	10.1080/01457632.2022.2079052
18	Ordered mesoporous silica matrices supported ionic liquids for efficient CO <sub>2</sub> separation from CO <sub>2</sub> /CH <sub>4</sub> gas mixture: Experimental and theoretical investigation	Pandey D.K.; Jadav D.; Patil T.; Dharaskar S.; Tsunoji N.; Kumar R.; Singh D.K.; Bandyopadhyay M.	Journal of Molecular Liquids	10.1016/j.molliq.2022.120569
19	Development of FeV-WC Ni Cr B Si coating on Stainless steel using HVOF process	Patel D.; Bhatt P.; Bateriwala R.	Materials Today: Proceedings	10.1016/j.matpr.2022.05.444
20	Types, storage facilities and performance of Vertical axis wind turbine: A Review	Patel J.T.; Patel H.N.; Makwana R.P.; Dharmalingam S.	2022 International Conference on Intelligent Controller and Computing for Smart Power, ICICCSPP 2022	10.1109/ICICCSPP53532.2022.9862417
21	Modeling and dynamic analysis of multi-loop RSSR-SS parallel manipulator	Patel K.; Bhatt P.M.	Materials Today: Proceedings	10.1016/j.matpr.2022.05.443
22	Quenching Effect on Mechanical Properties of In <sub>2</sub> Se <sub>2.7</sub> Sb <sub>0.3</sub> Single Crystal; [Вплив загартування на механічні властивості монокристала In <sub>2</sub> Se <sub>2.7</sub> Sb <sub>0.3</sub> ]	Patel P.J.; Vyas S.M.; Patel V.A.; Pavagadhi H.; Varasada R.; Jani M.P.	Journal of Nano- and Electronic Physics	10.21272/jnep.14(2).02001
23	Development and Testing of V-8 Electromagnetic Engine	Patel V.; Vagajiyani J.; Nayi R.; Sagar D.; Rakholiya J.; Dharmalingam S.	2022 International Conference on Intelligent Controller and Computing for Smart Power, ICICCSPP 2022	10.1109/ICICCSPP53532.2022.9862456
24	Hybridized Nanotubes and Graphene Oxide in CFRP Development for Space Use	Solanki J.D.; Vartak D.A.; Ghotekar Y.S.; Deshpande N.A.; Kumar N.; Satyanarayana B.; Lal A.K.; Bhatt P.M.	Lecture Notes in Mechanical Engineering	10.1007/978-981-16-7787-8_44

25	Calixarene: The Dawn of a New Era in Forensic Chemistry	Upadhyay H.; Harikrishnan U.; Bhatt D.; Dhadnekar N.; Kumar K.; Panchal M.	Current Organic Chemistry	10.2174/1385272827666230118094847
26	ANALYTICAL HIERARCHY PROCESS BASED DECISION MAKING FOR FABRICATING CFRP FOR SPACE APPLICATIONS USING NANOMATERIALS	Vartak D.; Ghotekar Y.; Bhatt P.; Makwana B.; Satyanarayana B.; Shah H.N.; Vadher J.	Composites: Mechanics, Computations, Applications	10.1615/CompMechComputApplIntJ.2022043014
27	Carbon Nanotube Composites to Enhance Thermal and Electrical Properties for Space Applications-A Review	Vartak D.A.; Ghotekar Y.; Bhatt P.M.; Makwana B.; Shah H.; Vadher J.A.; Munjal B.S.	Journal of Environmental Nanotechnology	10.13074/jent.2022.09.223456
28	Potential applications of advanced nano-composite materials for space payload	Vartak D.A.; Satyanarayana B.; Munjal B.S.; Vyas K.B.; Bhatt P.; Lal A.K.	Australian Journal of Mechanical Engineering	10.1080/14484846.2020.1733176
29	Design of bi-pyrene functionalized oxacalixarene probe for ratiometric detection of Fe <sup>3+</sup> and PO <sub>4</sub> <sup>3-</sup> ions	Vora M.; Dey S.; Kongor A.; Panchal M.; Verma A.; Padhiyar N.; Jain V.K.	Journal of Molecular Liquids	10.1016/j.molliq.2022.118601
30	Oxacalix[4]arene based dual-signalling fluorimetric and electrochemical chemosensor for the selective detection of nitroaromatic compounds	Vora M.; Panchal M.; Dey S.; Pandya A.; Athar M.; Verma N.; Irfan A.; Jain V.K.	Journal of Molecular Liquids	10.1016/j.molliq.2022.119791
31	Experimental Investigations on Aerodynamic Performances of NACA0012 Airfoil	Yadav A.; Suthar D.; Bhatiya H.; Marakana A.; Ghanchi M.S.; Dharmalingam S.	2022 International Conference on Intelligent Controller and Computing for Smart Power, ICICCSPP 2022	10.1109/ICICCSPP53532.2022.9862440
32	Geothermal Energy: Utilization, Technology and Financing	Yadav K.; Sircar A.; Yadav A.	Geothermal Energy: Utilization, Technology and Financing	10.1201/9781003204671
33	Modelling of downwelling longwave radiation over multiple agro-climate settings of India under foggy sky conditions - A neural network approach	Gharekhan, D; Bhattacharya, BK; Desai, D; Patel, PR	REMOTE SENSING APPLICATIONS-SOCIETY AND ENVIRONMENT	10.1016/j.rsase.2021.100684