

S. No.	Title of paper	Name of the journal and Year of publication	ISBN/ISSN number	Number of Authors	Department of the teacher
1.	Modified 7-Chloro-11H-Indeno[1,2-b]Quinoxaline Heterocyclic System for Biological Activities	J. Catalysts, 2022	2073-4344	09	Chemistry
2.	Modification of Optical Bandgap and Formation of Carbonaceous Clusters Due to 1.75 MeV N ⁵⁺ Ion Irradiation in PET Polymers and Search for Chemical reaction Mechanisms	Journal of Biointerface Research in Applied Chemistry,2022	2069-5837	04	Chemistry
3.	A Review on Processing Methods for Agricultural Waste Derived Adsorbents for Pb (II) ions Sequestration from Wastewater	J. Separation Science and Technology,2021	0149-6395	03	Chemistry
4.	Spectroscopic Investigation of Degradation Reaction Mechanism in γ Rays Irradiation of HDPE	Journal of Biointerface Research in Applied Chemistry,2021	2069-5837	05	Chemistry
5.	Simulation of the thermal degradation and curing kinetics of fly ash reinforced diglycidyl ether bisphenol A composite	Journal of the Indian Chemical Society,2021	0019-4522	04	Chemistry
6.	A Noble and Economical Method for the Synthesis of LowCost Zeolites from Coal Fly Ash Waste	J. Advances in Materials and Processing Technologies,2021	2374-0698	09	Chemistry
7.	Synergistic Influence of CaCO ₃ Nano Particle on the Mechanical and Thermal of Fly ash Reinforced Epoxy	J. Materials Today: Proceedings,2021	2214-7853	03	Chemistry

	Polymer Composites				
8.	Studies on Mechanical and Thermal Properties of Epoxy/Fly ash/Nanofiller Nanocomposites:A review	International J. of Civil Engineering. and Technology,2020,	0976-6308	04	Chemistry
9.	Utilization of Mixed Naphthol Green B and Janus Green B Dyes as Photosensitizer in Photogalvanic Cell for Solar Energy Conversion and Storage	Asian J. of Chemistry,2020	0970-7077	03	Chemistry
10.	Synthesis and Biological Activities of Some Novel Spiro Heterocyclic Pyrrolizidine Derivatives of 11H-Indeno[1,2-b] Quinoxaline through 1,3-dipoar Cycloaddition	Asian J. of Chemistry,2020	0970-7077	04	Chemistry
11.	Epoxy/Fly ash from Indian Soil Chulha/Nano CaCO ₃ Nanocomposite: Studies on Mechanical and Thermal Properties	J. Polymer Composites,2020	1548-0569	03	Chemistry
12.	Synthesis and Characterization of Mullites from Silico Aluminous Fly Ash Waste	International Journal of Applied Nanotechnology Research,2020	2640-0383	09	Chemistry
13.	Enhanced Efficiency of Photogalvanic Cell based on Mixed Triphenylmethane Dyes	Asian J. Chemistry,2020	0970-7077	02	Chemistry
14.	Neodymium decorated grapheme oxide as a corrosion barrier layer on Ti6Al4V alloy in acidic medium	RSC Advances,2019	2046-2069	06	Chemistry
15.	Praseodymium-	RSC Advances,2018	2046-2069	05	Chemistry

	decorated graphene oxide as corrosion inhibitor in acidic media for the magnesium AZ31 alloy,				
16	Insighting the systematic impact of shape, size and substitution of heteroatoms in quinoidal oligomers to tune their optoelectronic properties	Optical and Quantum Electronics, 2022	0306-8919	06	Chemistry
17	Interaction of pseudohalides copper(II) complexes of hydrazide ligand with DNA: synthesis, spectral characterization, molecular docking simulations and superoxide dismutase activity	Inorganic and Nano-Metal Chemistry, 2022	2470-1564	07	Chemistry
18	Arginine containing chitosan–graphene oxide aerogels for highly efficient carbon capture and fixation	Journal of CO ₂ Utilization, 2022	2212-9820	04	Chemistry
19	Impacts of low concentrations of nanoplastics on leaf litter decomposition and food quality for detritivores in streams	Journal of Hazardous Materials, 2022	0304-3894	07	Chemistry
20	Triazine based nanoarchitectonics of porous organic polymers	Materials Letters, 2022	0167-577X	04	Chemistry

	for CO ₂ storage				
21	Synthesis, characterization, and application of chitosan-N- (4-hydroxyphenyl)-methacrylamide derivative as a drug and gene carrier	International Journal of Biological Macromolecules, 2022	0141-8130	08	Chemistry
22	Copper(II) hydrazone complexes derived from (Z)-N'-{(2-hydroxynaphthalen-1-yl)methylene}acetohydrazide: Synthesis, spectral characterization, electrochemical behaviour, density functional study, in vitro catalytic activity and molecular docking	Results in Chemistry, 2022	2211-7156	08	Chemistry
23	Experimental and computational study of naphthalimide derivatives: Synthesis, optical, nonlinear optical and antiviral properties	Optik, 2021	0030-4026	09	Chemistry
24	Synthesis of antibacterial disulfide derivatives and its computational molecular docking against penicillin binding protein	Analytical Chemistry Letters, 2021	2230-7532	05	Chemistry
25	Synthesis and application of high-washability 4-amino-4'-	Fibers and Polymers, 2021	1229-9197	06	Chemistry

	fluorosulfonylazobenzene disperse dyes to cellulose diacetate for high color fastness,				
26	Synthesis of 2,5-furandicarboxylic acid-enriched-chitosan for anti-inflammatory and metal ion uptake	International Journal of Biological Macromolecules, 2021	0141-8130	05	Chemistry
27	Chitosan modified by organo-functionalities as an efficient nanoplatform for anti-cancer drug delivery process	Journal of Drug Delivery Science and T2022echnology, 2021			Chemistry
28	Rapid determination of nitrate in brain regions and Cerebrospinal fluid of transient bilateral common carotid artery occlusion rat model by HPLC-UV	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, 2021	2250-1762	04	Chemistry
29	Synthesis, characterization and functional properties of ZnO-based polyurethane nanocomposite for textile applications	Fibers and Polymers, 2021	1229-9197	06	Chemistry
30	Synthesis of copper (II) coordination complex, its molecular docking and computational exploration for novel functional properties: A dual approach	Chemistry Select, 2021	2365-6549	06	Chemistry

31	Visible light photocatalysis on magnetically recyclable Fe ₃ O ₄ /Cu ₂ O nanostructures	Catalysis Letters, 2022	1011-372X	05	Chemistry
32	Ionic liquid functionalized Cu ₂ O nanoparticles	Journal of Molecular Structure, 2022	0022-2860	03	Chemistry
33	Visible light enhanced p-nitrophenol reduction by glycerol over Ag/Cu core-shell bimetallic nanocatalysts	Journal of Environmental Chemical Engineering, 2021	2213-3437	06	Chemistry
34	Magnetic nanocomposites of Fe ₃ C or Ni-substituted (Fe ₃ C/Fe ₃ O ₄) with carbon for degradation of methylene orange and p-nitrophenol	Journal of Cleaner Production, 2021	0959-6526	06	Chemistry
35	Experimental and DFT calculation study of interaction between silver nanoparticle and 1-butyl-3-methyl imidazolium tetrafluoroborate ionic liquid	Heliyon, 2021	2405-8440	05	Chemistry