Department of Chemistry

Publication details A.Y 2024-25

S.No.	Name of the faculty	Title of the article	Name of the journal	DOI	Article/ Book	Impact factor	h-index
1	**Dr.P. Amaladass**	A review on functionalization of Benzo-5,6-Fused Bicyclic Heteroaromatic compounds	CHEMISTRY AN ASIAN JOURNAL	https://doi.org/10.1002/asia.202400455	Article	3.5	124
		Recent synthetic strategies for the functionalization of fused bicyclic heteroaromatics using organo-Li, -Mg and -Zn reagents	Chemical Society Reviews	10.1039/d4cs00369a	Article	40	635

		Green synthesis of carbon quantum dots derived from mango-leaves (M CQDs): M CQDs/ZnO nanorods heterostructure thin films for efficient self-powered UV photodetector applications	Applied surface science	https://doi.org/10.1016/j.apsusc.2024.162032	Article	6.3	235
2	**Dr.C.V. Raju**	Versatility of MXene-based materials for the electrochemical detection of phenolic contaminants	Coordination Chemistry Reviews	https://10.0.3.248/j.ccr.2024.216305	Article	20.3	312
		Gold Nanoparticle Functionalized Carrageenan Polysaccharide and Zeolitic Imidazolate Framework-8: Biopolymer Nanocomposite for Selective Serotonin Sensing	Journal of The Electrochemical Society	10.1149/1945-7111/ad9ccc	Article	3.2	310
3	**Dr Abhijit Bijanu**	Future Trends of Nanofillers in Aerospace Industry	Handbook of Nanofillers Springer Nature	https://doi.org/10.1007/978-981-99-3516-1_145-1			
		Challenges of Nanofillers in Environment, Legislation, Health, and Safety	Springer Nature Handbook of Nanofillers	https://doi.org/10.1007/978-981-99-3516-1_158-1	Article		

4	**Dr. Ranjeeth**	Unveiling Fluorescence Spectroscopy, Molecular Docking and Dynamic Simulations: Interactions Between Protein and 2, 4-Dinitrophenylhydrazine Schiff Base	Journal of Fluorescence	Journal of Fluorescence	Article	2.6	81
		A Schiff-Base Molecular Probe for Selective Fluorescence Sensing of Maleic Acid with Recognition of Maleic Acid in Food Additives and Cell Imaging	Journal of Fluorescence	10.1007/s10895-024-04015-x	Article	2.6	81
5	**Dr. Imran. K**	Development of MOF-derived zinc oxide/cobalt oxide@carbon nanospheres composite for improved methanol electro-oxidation	Journal of Physics and Chemistry of Solids	https://doi.org/10.1016/j.jpcs.2024.112304	Article	4.3	121
		Synergy Effect of High K-Low Ca-High Si Biomass Ash Model System on Syngas Production and Reactivity Characteristics during Petroleum Coke Steam Gasification	Energies	10.3390/en17184650	Article	3	152
		A new 3D Cd(II)-based metal-organic framework as dual-function luminescent sensor to ions and antibiotic: Mechanism and theoretical studies	journal of molecular structure	10.1016/j.molstruc.2024.140691	Article	4	125

6	**Dr.Lipeeka Rout**	Polyaniline assembly ultra-thin graphene hybrid nanocomposites synthesis for current research trends of promising applications in emerging fields	Material science and engineering B	10.1016/j.mseb.2024.117596	Article	3.9	277
		Decoupling study on the influence of the interaction between biomass hydrochar and coal during co-pyrolysis on the char structure evolution	Renewable energy	10.1016/j.renene.2024.120938	Article	9	250
		Carbon Nanotube-Based Polymer Nanocomposites for Aerospace Applications	Springer	10.1007/978-981-97-6329-0_17	Book		
7	**Dr.V. Raju**	Impact of the Lead-Free Crystal Matrix 0.94NBaTiO3- 0.06SrTiO3 on the Photoluminescence Properties of Eu+3	physica status solidi (b) – basic solid state physics	10.1002/pssb.202400267	Article	1.5	119
		Enhanced pyroelectric property in lead-free 0.94 Na0.5Bi0.5TiO3- 0.06 Ba0.85Ca0.15Ti0.90Zr0.10O3	Ceramics International	https://doi.org/10.1016/j.ceramint.2024.11.205	Article	5.1	**155**
8	**Dr. Sanoop**	Impact of nanoparticles on immune cells and their potential applications in cancer immunotherapy	Journal of Biocell	http://dx.doi.org/10.32604/biocell.2024.054879	Article	1.2	29
		B, S co-doped g-C3N4 hollow nanotubes/MIL-53 heterostructure: A MOF derived high performance Z scheme photocatalyst for bisphenol A degradation and H2 evolution	Optical Materials (ELSEVIER)	10.1016/j.optmat.2025.116778	Article	3.8	119

	Dr. Ugrabadi Sahoo	l-Cysteine-Functionalized Boron-Doped Graphitic Carbon Nitride Quantum Dots: A Biocompatible Fluorescent Sensor for Cadmium Detection in Water	Industrial & Engineering Chemistry Research (ACS)	10.1021/acs.iecr.4c03757	Article	3.8	255
9		Temperature-induced linker defect engineering in MIL-53 Fe-MOF: A novel approach to enhance photocatalytic degradation of bromoxynil	l of Environmental Chemical Engir	https://doi.org/10.1016/j.jece.2025.115996	Article	7.4	127