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Department of Chemistry

Publication details A.Y 2023-24

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**	Recent synthetic strategies for the construction of functionalized carbazoles and their heterocyclic motifs enabled by Lewis acids†	RSC Advances	https://doi.org/10.1039/D3RA06396H	Article	4.036	189
		Improved ultraviolet photodetector performances using solution-processed	Thin Solid Films	https://doi.org/10.1016/j.tsf.2024.140221	Article	2.1	206
		nitrogen-doped carbon quantum dots/ZnO hybrid thin films	Journal of Materials Science: Materials in Electronics	https://doi.org/10.1007/s10854-023-11768-x	Article	2.8	97
2	**Dr. Rajaram R**	ZnO nanorods array film for efficient UV	Journal of Molecular Modeling	https://doi.org/10.1007/s00894-023-05745-8	Article	2.2	76
		Bismuth tungstate nanocomposites for simultaneous detection of hydroquinone and resorcinol	Materials Advances	https://doi.org/10.1039/D3MA00533J	Article	5	28

2	**Dr. Rajaram.K**	Unraveling the Secrets of Molecular and Electronic Structures of [Fe(CO)4(GeX)]: A DFT Study	Chemical Physics Impact	https://doi.org/10.1016/j.chphi.2023.100415	Article	2.35	8
		Photodetector applications	Inorganic Chemistry Communications	https://doi.org/10.1016/j.inoche.2023.111	Article	3.8	78
		Non-Noble Metal Catalysts in oxygen reduction reaction	Taylor & Francis	https://doi.org/10.1201/9781003334903	Book		
3	**Dr. M. Balaji**	Controlled Synthesis and Uniform Anchoring of Hollow CuxO Nanocubes on Carbon Nanofiber for Enhanced Se(S)−Se(S) Bond Activation	Inorganic Chemistry	https://doi.org/10.1021/acs.inorgchem.3c01860	Article	4.3	249
4	**Dr. B. Renjith**	Thiourea Functionalised Receptor for Selective Detection of Mercury	Journal of Fluorescence	https://doi.org/10.1007/s10895-024-03740-7	Article	2.6	81
		Ions and its Application in Serum Sample	Journal of Fluorescence	https://doi.org/10.1007/s10895-024-03700-1	Article	2.6	81
		2-Hydroxy-naphthaldehyde Derived Chromo-Fluorogenic Chemosensor	Inernational Journal of Quantam chemistry	https://doi.org/10.1002/qua.27288	Article	2.2	112
5	**Dr. Imran. K**	Anticancer Efficacy and Folic Acid Biosensing using poly (3, 4-ethylene dioxythiophene)-Cadmium oxide Composite Platform	Journal of The Electrochemical Society	10.1149/1945-7111/ad2cbf	Article	3.9	310
6	**Dr. C.V. Raju**	Simultaneous electrochemical detection of dopamine and uric acid based on tri-composite of poly-pyrrole and α-Fe2O3 embedded MoS2 sheets modified electrode	Microchemical Journal	https://doi.org/10.1016/j.microc.2024.110189	Article	4.9	107

		Highly sensitive electrochemical peptide-based biosensor for marine biotoxin detection using a bimetallic platinum and ruthenium nanoparticle-tethered metal–organic framework modified electrode	Food chemistry	https://doi.org/10.1016/j.foodchem.2023.136811	Article	8.5	324
		Electrochemical peptide-based biosensor for the detection of the inflammatory disease biomarker, interleukin-1beta	Analytica Chimica Acta	https://doi.org/10.1016/j.aca.2024.342287	Article	5.7	234
7	**Dr. Sanoop. P**	A Practical Nanoplasmonic SERS Substrate for Differential Diagnosis of Lung Normal and Cancer Cells through Multivariate Statistical Analysis	CHEMNANOMAT	https://doi.org/10.1002/cnma.202300378	Article	3.8	52
8	**Dr. Lipeeka Rout**	Oxygen Reduction Reaction in Nano electrocatalyst for Oxygen Reduction Reaction:	Springer Link	https://doi.org/10.1007/978-3-031-40938-7_2	Book		
9	**Dr. Rahul Pal**	Growth and electrochemical properties of CuO nanowires-ZnO microrods composite	Hybrid Advances	https://doi.org/10.1016/j.hybadv.2023.100124	Article		
10	**Dr. Chandramohan**	Evaluation of Photosensing Parameters of Au/polystyrene/n-Si Heterojunction Based Self-Powered Organic Broadband Photodetectors	Silicon	https://doi.org/10.1007/s12633-023-02458-8	Article	2.9	41