

Department of Chemistry

List of Publications

Academic Year 2021 -2022

S.No	Title of the paper	First Author & Affiliation	Remaining Authors & Affiliation as per the order in papers	Name of the Journal / Conference	Volume No, Issue No Page No Month & Year	Indexing Scopus / SCI/ SCIE/ WoS	Is it available in Scopus Author Search (Yes/ No)	Online Link of the paper (by clicking this link, paper should be opened in online)
1.	Electromagnetic shielding performance of reduced graphene oxide reinforced iron oxide nanostructured materials prepared by polyol method	T. Govindasamy, National Centre for Nanoscience and Nanotechnology, University of Madras, 600025, Chennai, India	N. Manjubaashini, N. K.K. Mathew, R.V. Kulangara, V. Asapu, S. Padmanpan, T. Daniel Thangadurai , B. Subramanian (Corresponding Author). 2 nd , 3 rd , 4 th & 8 th authors- National Centre for Nanoscience and Nanotechnology, University of Madras, 600025, Chennai, India 5 th author- Microwave Laboratory, Department of Physics,	Journal of Materials Research	37, 1216-1230 (March 2022)	SCIE, Scopus	Yes	https://link.springer.com/article/10.1557/s43578-022-00522-4

			<p>Indian Institute of Technology Madras, 600036, Chennai, India</p> <p>6th author- Advance Magnetics Group, Defence Metallurgical Research Laboratory Hyderabad, 500058, Hyderabad, India</p> <p>7th author- Department of Chemistry, KPR Institute of Engineering and Technology, 641407, Coimbatore, India</p>					
2	A review on Graphene Quantum Dots, an Emerging Luminescent Carbon Nanolights: Healthcare and Environmental Applications	T. Daniel Thangadurai (Corresponding Author), Department of Chemistry, KPR Institute of Engineering and Technology, 641407, Coimbatore, India	<p>N. Manjubaashini, D. Nataraj, V. Gomes, Y. I. Lee.</p> <p>2nd author- National Centre for Nanoscience and Nanotechnology, University of Madras, Chennai 600025,</p>	Materials Science and Engineering B	278, 115633 (April 2022)	WoS	-	https://www.sciencedirect.com/science/article/abs/pii/S0921510722000307

			<p>Tamil Nadu, India</p> <p>3rd author- Department of Physics, Bharathiar University, Coimbatore 641 046, Tamil Nadu, India</p> <p>4th author- School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney NSW 2006, Australia</p> <p>5th author- Department of Materials Convergence and System Engineering, Changwon National University, Changwon 51140, Republic of Korea</p>					
3	Investigation on the Photocatalytic and Antibacterial Activities of Green synthesized Cupric Oxide Nanoparticles using Clitoria ternatea	S. Prabhu (Corresponding Author), Department of Research and Development, Bharathiar University, Coimbatore, Tamil Nadu, India	<p>T. Daniel Thangadurai, P. Vijai Bharathy, P. Kalugasalam.</p> <p>2nd author- Department of Chemistry, KPR Institute of Engineering</p>	Iranian Journal of Catalysis	12, 1-11 (6 February 2022)	Scopus	Yes	https://ijc.shahreza.iau.ir/article_689547.html

			<p>and Technology, Coimbatore, Tamil Nadu, India</p> <p>3rd author- Department of Physics, C.B.M College, Coimbatore, Tamil Nadu, India.</p> <p>4th author- Department of Physics, Anna University Regional Campus, Coimbatore, Tamil Nadu, India.</p>					
4	Zirconium based metal-organic framework for the adsorption of Cu(II) ions in real water samples	V. Subramaniam, Department of Nanoscience and Technology, Sri Ramakrishna Engineering College, Coimbatore, 641 022, Tamil Nadu, India	<p>T. Daniel Thangadurai (Corresponding Author), Y. I. Lee. 2nd author- Department of Chemistry, KPR Institute of Engineering and Technology, Coimbatore, 641 407, Tamil Nadu, India</p> <p>3rd author- Department of Materials Convergence and System Engineering, Changwon</p>	Cleaner Engineering and Technology	9, 100526 (August 2022)	Scopus	Yes	https://doi.org/10.1016/j.clet.2022.10.0526

			National University, Changwon, 51140, Republic of Korea					
5	Investigation on crystal facet-dependent antibacterial activity of Cu ₂ O crystals – A structural, morphological, and spectroscopy studies	S. Sengodan, Department of Chemistry, KPR Institute of Engineering and Technology, Coimbatore 641407, Tamil Nadu, India	B. Matheswaran, S. Shanmugam, T. Daniel Thangadurai (Corresponding Author). 2 nd and 3 rd author-Centre for Photonics and Nanotechnology, Department of Physics, Sona College of Technology, Salem, Tamil Nadu, India 4 th author-Department of Chemistry, KPR Institute of Engineering and Technology, Coimbatore 641407, Tamil Nadu, India	Results in Chemistry	4, 100358 (January 2022)	Scopus	Yes	https://www.sciencedirect.com/science/article/pii/S2211715622000777
6	Synthesis and characterization of nickel oxide nanoparticles using Clitoria ternatea flower extract: Photocatalytic dye	S. Prabhu (Corresponding Author), Department of Research and Development, Bharathiar University, Coimbatore,	T. Daniel Thangadurai , P. Vijai Bharathy, P. Kalugasalam 2 nd author-Department of Chemistry, KPR Institute	Results in Chemistry	4, 100285 (25 January 2022)	Scopus	Yes	https://www.sciencedirect.com/science/article/pii/S2211715622000042

	degradation under sunlight and antibacterial activity applications	Tamil Nadu, India	of Engineering and Technology, Coimbatore, Tamil Nadu, India 3 rd author- Department of Physics, C.B.M College, Coimbatore, Tamil Nadu, India 4 th author- Department of Physics, Anna University Regional Campus, Coimbatore, Tamil Nadu, India					
7	Polymeric Substitution of Triazole Moieties in Cellulosic Schiff Base for Heavy Metal Complexation Studies	R. Mahalakshmi, Department of Chemistry, Kumaraguru College of Technology, Coimbatore, Tamilnadu, 641049, India	R. Saravanan (Corresponding Author) P. Selvakumar, M. S. Karthikeyan, L. Ravikumar. 2 nd and 4 th author- Department of Chemistry, KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu, 641407, India	Journal of Polymers and the Environment	30, 360-372 (7 June 2021)	Scopus	Yes	https://link.springer.com/article/10.1007/s10924-021-02201-7

			<p>3rd author- Department of Chemistry, Vivekanandha College of Arts & Sciences for Women, Tiruchengode, Tamilnadu, 637205, India</p> <p>5th author- Department of Chemistry, C.B.M. College, Coimbatore, Tamilnadu, 641042, India</p>					
8	Langbeinite phosphosilicates $K_{2-x}Cs_xZr_2P_2SiO_{12}$ ($x = 0, 0.5, 1.0, 1.5, 2.0$) for cesium encapsulation; synthesis, chemical durability and thermal expansion study	D. Balaji , Materials Chemistry Research Laboratory, Department of Chemistry, KPR Institute of Engineering and Technology, Coimbatore - 641407.	S. Pratheep Kumar (Corresponding Author) Materials Chemistry Research Laboratory, Department of Chemistry, KPR Institute of Engineering and Technology, Coimbatore - 641407.	Ceramics International	47, 28951-28959 (15 October 2021)	SCIE, WoS, Scopus	Yes	https://www.sciencedirect.com/science/article/abs/pii/S0272884221020824
9	Synthesis, structural and thermal expansion investigation of La, Ce and Eu substituted $Bi_4(SiO_4)_3$	T. R. Mandlimath , Materials Chemistry Research Laboratory, Department of Chemistry, KPR Institute of Engineering and Technology,	D. Balaji, S. Pratheep Kumar Materials Chemistry Research Laboratory, Department of Chemistry, KPR Institute of Engineering and	Materials Chemistry and Physics	270, 124841 (15 September 2021)	SCI	Yes	https://www.sciencedirect.com/science/article/abs/pii/S0254058421006246

		Coimbatore - 641407	Technology, Coimbatore - 641407					
10	Effect of Synthetic Routes on the Catalytic Activity of FePO ₄ for p-Nitrophenol Reduction	T. R. Mandlimath (Corresponding Author), Materials Chemistry Research Laboratory, Department of Chemistry, KPR Institute of Engineering and Technology, Coimbatore - 641407.	S. Pratheep Kumar, Materials Chemistry Research Laboratory, Department of Chemistry, KPR Institute of Engineering and Technology, Coimbatore - 641407.	Kinetics and Catalysis	62, 536–544 (19 August 2021)	Scopus	Yes	https://link.springer.com/article/10.1134/S0023158421040078

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23/11/23

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