

Department of Chemistry

Authors	Title	Year	Source title	Volume	Issue	Art. No.	Page start	Page end	DOI
S. Rajkumar	Electrochemical performance of SrMoO ₄ as electrode material for energy storage systems	2024	Journal of Industrial and Engineering Chemistry	129			521	530	10.1016/j.jiec.2023.09.011
S. Rajkumar	Antimony vanadate spheres: Synthesis, characterizations, and use as positive electrode in asymmetric supercapacitor systems	2024	Journal of Electroanalytical Chemistry	953		118014			10.1016/j.jelechem.2023.118014
S. Rajkumar	One-step synthesis and fabrication of ZrMo ₂ O ₈ nanostructures as advanced electrode material for energy storage applications	2024	Journal of Industrial and Engineering Chemistry						10.1016/j.jiec.2024.03.002
C. Sankar	Synthesis, antimicrobial screening, molecular docking, ADMET prediction and pharmacological evaluation on novel pyran-4-one bearing hydrazone, triazole and isoxazole moieties: Potential inhibitors of SARS CoV-2	2023	Journal of Molecular Structure	1285		135461			10.1016/j.molstruc.2023.135461
C. Sankar	Silver-functionalized bismuth oxide (AgBi ₂ O ₃) nanoparticles for the superior electrochemical detection of glucose, NO ₂ ⁻ and H ₂ O ₂	2023	RSC Advances	13	30		20598	20609	10.1039/d2ra08140g
S. Rajkumar	Facile fabrication of ZrV ₂ O ₇ nanostructures as an electrode material for supercapacitors	2023	Inorganic Chemistry Communications	153		110896			10.1016/j.inoche.2023.110896
S. Rajkumar	Construction of CuV ₂ O ₆ -nanostructured electrode material for supercapacitors	2023	MRS Communications	13	3		460	465	10.1557/s43579-023-00360-3
S. Rajkumar A. Ravikumar	One-step facile synthesis of Sr-doped ZnO as electrode material for supercapacitors	2023	Journal of Materials Science: Materials in Electronics	34	13	1107			10.1007/s10854-023-10465-z
C. Sankar	Hydrothermal synthesis of ZnZrO ₂ /chitosan (ZnZrO ₂ /CS) nanocomposite for highly sensitive detection of glucose and hydrogen peroxide	2023	International Journal of Biological Macromolecules	226			618	627	10.1016/j.ijbiomac.2022.11.318
C. Sankar	Corrigendum to "Synthesis, stereochemical, structural and biological studies of some N'-(Zr,Ac-diaryl-3-azabicyclo [3.3.1]nonan-9-ylidene)pyrazine-2-carbohydrazide" Journal of Molecular Structure 1129 (2017) 305-312 (Journal of Molecular Structure (2017) 1129 (305-312), (S0022286016309607), (10.1016/j.molstruc.2016.09.033))	2021	Journal of Molecular Structure	1230		129651			10.1016/j.molstruc.2020.129651
C. Sankar	New thiazolidinone substituted 2,6-diarylpiperidin-4-one: Synthesis, crystal structure, spectral characterization, binding mode with calf thymus DNA	2019	Journal of Molecular Structure	1198		126899			10.1016/j.molstruc.2019.126899
C. Karikal Chozhan	Cyclohexane and phosphorus based benzoxazine-bismaleimide hybrid polymer matrices: thermal and morphological properties	2019	Journal of Macromolecular Science, Part A: Pure and Applied Chemistry	56	7		686	696	10.1080/10601325.2019.1598773
C. Karikal Chozhan	Benzoxazine modified diglycidyl ether of bisphenol-a/silicon/siliconized epoxy hybrid polymer matrices: Mechanical, thermal, electrical and morphological properties	2019	Journal of Macromolecular Science, Part A: Pure and Applied Chemistry	56	1		1	16	10.1080/10601325.2018.1470469
C. Karikal Chozhan	Surface modified clay reinforced silicon incorporated epoxy hybrid nanocomposites: Thermal, mechanical, and morphological properties	2018	Polymers from Renewable Resources	9	1		1	22	10.1177/204124791800900101
C. Sankar	Synthesis, stereochemical, structural, and biological studies of a series of N'-(Zr,Ac-diaryl-3-azabicyclo[3.3.1]nonan-9-ylidene)pyrazine-2-carbohydrazides	2017	Journal of Molecular Structure	1129			305	312	10.1016/j.molstruc.2016.09.033
C. Sankar	Synthesis, identification and in vitro biological evaluation of some novel quinoline incorporated 1,3-thiazinan-4-one derivatives	2017	Bioorganic and Medicinal Chemistry Letters	27	3		695	699	10.1016/j.bmcl.2016.06.038
Rajkumar P.	Effect of tungsten (W ⁶⁺) metal ion dopant on structural, optical and photocatalytic activity of SnO ₂ nanoparticles by a novel microwave method	2016	Journal of Materials Science: Materials in Electronics	27	3		2419	2425	10.1007/s10854-015-4040-x
P. Rajkumar	Influence of Zn doping on structural, optical and photocatalytic activity of WO ₃ nanoparticles by a novel microwave irradiation technique	2015	Journal of Materials Science: Materials in Electronics	26	9		6823	6830	10.1007/s10854-015-3296-5
P. Rajkumar	One-step synthesis, characterization, and visible light photocatalytic activity of pure and Zn-doped SnO ₂ nanoparticles	2015	Applied Physics A: Materials Science and Processing	120	2		463	469	10.1007/s00339-015-9240-y
C. Sankar	Conformational analysis of 2,6-diarylpiperidin-4-one hydrazones by X-ray diffraction and NMR spectroscopy	2015	Journal of Molecular Structure	1083			27	38	10.1016/j.molstruc.2014.10.015
C. Sankar	Spectral characterization and crystal structure of some 2,6-diarylthian-4-one hydrazone derivatives	2014	Journal of Molecular Structure	1076			554	563	10.1016/j.molstruc.2014.07.080
P. Rajkumar	Characterization of minerals in air dust particles in the state of Tamilnadu, India through FTIR, XRD and SEM analyses	2014	Infrared Physics and Technology	67			30	41	10.1016/j.infrared.2014.06.002

Madhan D., Rajkumar P.	Analysis of protective (Nano) film of Ocimum tenuiflorum (tulsi) extract by surface examination study	2013	Der Pharma Chemica	5	5	68	76	
P. Rajkumar	Characterization of minerals in natural and manufactured sand in Cauvery River belt, Tamilnadu, India	2013	Infrared Physics and Technology	58		21	31	10.1016/j.infrared.2012.12.042