

CSIR-CLRI Publications for the period NOVEMBER 2023 (Indexed in SCI-Expanded)

NOVEMBER 2023

SL. NO.	AUTHORS	TITLE	SOURCE	VL*	IS*	BP*	EP*	PY*	DOI*
1.	Rahaman, SN; Pathmanapan, S; Sidharthan, A; Anandasadagopan, SK	Vancomycin Loaded Amino-Functionalized MCM-48 Mesoporous Silica Nanoparticles as a Promising Drug Carrier in Bone Substitutes for Bacterial Infection Management	<i>Applied Biochemistry and Biotechnology</i>	195	11	6607	6632	2023	10.1007/s12010-023-04406-z
2.	Kumaravel, S; Thiripuranthagan, S; Vembuli, T; Kumaravel, S; Erusappan, E; Chicardi, E; Chinnasamy, S	Detoxification of harmful pollutants using highly efficient visible light active Ru/TiO ₂ /PVDF photocatalytic membranes	<i>Materials Research Bulletin</i>	167				2023	10.1016/j.materresbull.2023.112421
3.	Biswas, C; Vijayan, V; Panda, SJ; Samanta, S; Chattopadhyay, T; Purohit, CS; Kiran, MS; Ghosh, R	Pro-angiogenic effect of a synthetic Cu(II) complex [Cu(L) ₂] [LH = tautomeric thiolate form of 2-ethoxybenzaldehyde-N (4)-dihexyl-3-thiosemicarbazone]	<i>Polyhedron</i>	244				2023	10.1016/j.poly.2023.116630
4.	Varghese, A; Jain, S; Jawahar, M; Prince, AA	Auto-pore segmentation of digital microscopic leather images for species identification	<i>Engineering Applications of Artificial Intelligence</i>	126				2023	10.1016/j.engappai.2023.107049
5.	Ramalingam, B; Das, SK	Biomimetic strategy for fabrication of bifunctional graphene oxide-biomaterial aerogel as highly porous antifouling material for oil/water separation	<i>Chemical Engineering Journal</i>	475				2023	10.1016/j.cej.2023.145906
6.	Ramalingam, B; Das, SK	Biofabricated graphene-magnetite nanobioaerogel	<i>Chemical Engineering Journal</i>	475				2023	10.1016/j.cej.2023.145976

		with antibiofilm property: Response surface methodology based optimization for effective removal of heavy metal ions and killing of bacterial pathogens							
7.	Ramalingam, S; Sahu, B; Rao, JR	Hybrid nanoparticles emulsified vegetable oil as an environmentally friendly and sustainable leather fatliquoring agent	<i>Process Safety and Environmental Protection</i>	179		896	906	2023	10.1016/j.psep.2023.03.050
8.	Samyuktha, AD; Ethiraj, KR; Shanmugam, P	Unusual participation of <i>O</i> -propargyl group during the cyclization of 6-hydroxy-2-propargyl ethers of aryl chalcones: one-pot synthesis of 2-acyl-3-styrylbenzofuran and 7-aryldibenzo[<i>b</i>], <i>d</i>]-furan-1,7-diols	<i>New Journal of Chemistry</i>	47	45	20818	20830	2023	10.1039/d3nj03766e
9.	Xu, WH; Li, CH; Cui, X; Zhang, YB; Yang, M; Gao, T; Liu, MZ; Wang, XM; Zhou, ZM; Sharma, S; Dambatta, YS	Atomization mechanism and machinability evaluation with electrically charged nanolubricant grinding of GH4169	<i>Journal of Manufacturing Processes</i>	106		480	493	2023	10.1016/j.jmapro.2023.10.037
10.	Shanmugam, M; Agamendran, N; Sekar, K; Natarajan, TS	Metal-organic frameworks (MOFs) for energy production and gaseous fuel and electrochemical energy storage applications	<i>Physical Chemistry Chemical Physics</i>	25	44	30116	30144	2023	10.1039/d3cp04297a
11.	Arathanaikotti, D; Ramesh, RR; Ponnuvel, M; Rathinam, A	Synthesis and crosslinking of collagen using 4-(3,4,5-tris(oxiran-2-ylmethoxy)benzamido)benzenesulfonic acid for the development of robust metal-free leather	<i>Environmental Science and Pollution Research</i>	30	54	115310	115321	2023	10.1007/s11356-023-30505-9

12.	Sundar, VJ	Novel biocompatible denture material incorporating type I collagen with improved functional properties for oral health	<i>Odontology</i>					2023	10.1007/s10266-023-00866-1
13.	Jayaprakash, K; Sivasamy, A	Superior photocatalytic performance of Dy ₂ O ₃ /graphitic carbon nitride nanohybrid for the oxidation Rhodamine B dye under visible light irradiation: A superoxide free radicals approach	<i>Colloids and Surfaces A-Physicochemical and Engineering Aspects</i>	676				2023	10.1016/j.colsurfa.2023.132260
14.	Mukherjee, S; Sundarapandian, A; Ayyadurai, N; Shanmugam, G	Collagen Mimicry with a Short Collagen Model Peptide	<i>Macromolecular Rapid Communications</i>					2023	10.1002/marc.202300573
15.	Mozhiarasi, V; Rose, PMB; Weichgrebe, D; Srinivasan, SV	Comparative study on effect of shredding and extrusion on biogas production from cauliflower and banana peduncle wastes	<i>Environment Development and Sustainability</i>					2023	10.1007/s10668-023-03990-8
16.	Thirunavukarasu, N; Panda, RC; Panda, A; Kalaivani, K	Parametric Identification of a Countercurrent Aqueous Hydrolysis Process for the Production of Glycerine under Higher Pressure and Temperature	<i>Chemical Engineering & Technology</i>					2023	10.1002/ceat.202300382
17.	Venkatesan, N; Krishna, A; Fathima, NN	Leather solid waste derived activated carbon as a potential material for various applications: A review	<i>Journal of Analytical and Applied Pyrolysis</i>	176				2023	10.1016/j.jaap.2023.106249
18.	Krishnan, SH; Eswaran, VDD; Lobo, NP; Kumar, BVNP	Comprehensive NMR Investigation of Imidazolium-Based Ionic Liquids [BMIM][OSU] and [BMIM][Cl] Impact on Binding and	<i>Journal of Physical Chemistry B</i>	127	47	10226	10235	2023	10.1021/acs.jpcc.3c06036

		Dynamics of the Anticancer Drug Doxorubicin Hydrochloride							
19.	Madasamy, J; Natarajan, P; Ravi, AS; Somasundaram, S	Production of polymeric silver nanocomposites using microbial extracellular polymers for the effective removal of chromium (VI) from water	<i>Biomass Conversion and Biorefinery</i>					2023	10.1007/s13399-023-05119-3
20.	Vidhyaa, CB; Anirudh, PDV; Panda, B; Sobana, S; Panda, RC; Laskar, JH	Modeling and control of vascular dementia disease by exact dosing of medicines	<i>International Journal of Robust and Nonlinear Control</i>					2023	10.1002/rnc.7067

*PD=Date of Publication; PY=Year of Publication; Vol=Volume; IS=Issue; BP=Beginning Page Number; EP=Ending Page Number, DOI=Digital Object Identifier