

CSIR-CLRI Publications for the period AUGUST 2024 (Indexed in SCI-Expanded)

AUGUST 2024

Sl. No.	AUTHORS	TITLE	SOURCE	VL*	IS*	BP*	EP*	PY*	DOI*
1.	Inbasekar, C; Fathima, NN	Multifunctional amphoteric heteropolymer for chromium free sustainable leather process	<i>Journal of Applied Polymer Science</i>	141	29			2024	10.1002/app.55673
2.	Stephen, K; Kumar, BVNP; Samanta, D	Immobilization of Functionalized Silica Nanoparticles to Polystyrene- <i>block</i>-polybutadiene- <i>block</i>-Polystyrene via Chlorination: Interaction Parameters and Key Properties	<i>ACS Applied Polymer Materials</i>	6	17	10168	10177	2024	10.1021/acsapm.4c00982
3.	Sujiritha, PB; Vikash, VL; Ponesakki, G; Ayyadurai, N; Kamini, NR	Microbially induced carbonate precipitation with Arthrobacter creatinolyticus : An eco-friendly strategy for mitigation of chromium contamination	<i>Journal of Environmental Management</i>	365				2024	10.1016/j.jenvman.2024.121300

4.	Chowdhury, C	Bayesian Optimization for Efficient Prediction of Gas Uptake in Nanoporous Materials	<i>Chemphyschem</i>	25	16			2024	10.1002/cphc.202300850
5.	Denise, RM; Usharani, N; Saravanan, N; Kanth, SV	<i><i>In vitro</i> and <i>in silico</i> approach towards antimicrobial and antioxidant behaviour of water-soluble chitosan dialdehyde biopolymers</i>	<i>Carbohydrate Research</i>	542				2024	10.1016/j.carres.2024.109192
6.	Gogoi, A; Dixit, M; Pal, S	Mechanistic Insight of High-Valent First-Row Transition Metal Complexes for Dehydrogenation of Ammonia Borane	<i>Journal of Physical Chemistry A</i>	128	37	7804	7815	2024	10.1021/acs.jpca.4c04069
7.	Renuka, M; Harini, ; Balasubramanian, S; Sridevi, J; Vaidyanathan, VG	Understanding the effect of carbon dots with size variation on collagen	<i>Indian Journal of Chemistry</i>	63	8	791	796	2024	10.56042/ijc.v63i8.8764
8.	Li, ZW; Tsuneyuki, T; Paitandi, RP; Nakazato, T; Odawara, M; Tsutsui, Y; Tanaka, T; Miyake, Y; Shinokubo, H; Takagi, M; Shimazaki, T; Tachikawa, M;	Ultrafine Spatial Modulation of Diazapyrene-Based Two-Dimensional Conjugated Covalent Organic Frameworks	<i>Journal of the American Chemical Society</i>	146	33	23497	23507	2024	10.1021/jacs.4c07091

	Suzuki, K; Kaji, H; Ghosh, S; Seki, S								
9.	Chakrabarti, S; Vasagam, SN; Ananthakrishnan, B; Sornam, M	Artificial Intelligence techniques enabled insights into Leather Defects	<i>Indian Journal of Engineering and Materials Sciences</i>	31	4	487	504	2024	10.56042/ijems.v31i4.8853
10.	Divya, D; Ramanjaneyulu, M; Nandhagopal, M; Srinivasan, V; Thennarasu, S	A fluorescent chemosensor for selective detection of chromium (III) ions in environmentally and biologically relevant samples	<i>Spectrochimica Acta Part A- Molecular and Biomolecular Spectroscopy</i>	316				2024	10.1016/j.saa.2024.124286
11.	Vinayagam, M; Babu, RS; Sivasamy, A; de Barros, ALF	Influence of Biomass- derived Porous Activated Carbon on Polyaniline as Electrode Material for Supercapacitor Applications	<i>Iranian Journal of Science</i>	48	4	879	892	2024	10.1007/s40995-024-01650-8
12.	Vignesh, V; Kavalappa, YP; Ponesakki, G; Madhan, B; Shanmugam, G	Lutein, a carotenoid found in numerous plants and the human eye, demonstrates the capacity to bundle collagen fibrils	<i>International Journal of Biological Macromolecules</i>	274				2024	10.1016/j.ijbiomac.2024.133389
13.	Sarkar, J; Samanta, D; Chaudhuri, S; Angeline, J; Kumari, KGA; Jaisankar, SN	Harnessing leather waste in polymer matrix for sustainable smart shape-stable phase change materials	<i>Journal of Applied Polymer Science</i>	141	29			2024	10.1002/app.55659

14.	Borker, P; Pole, A; Fatrekar, A	Synergistic approach: Photocatalytic hydrogen generation for curcumin hydrogenation	<i>International Journal of Hydrogen Energy</i>	78		1355	1362	2024	10.1016/j.ijhydene.2024.06.388
15.	Priyadarshini, M; Ahmad, A; Shinde, A; Das, I; Ghangrekar, MM	Anodic degradation of salicylic acid and simultaneous bio-electricity recovery in microbial fuel cell using waste-banana-peels derived biochar-supported MIL-53(Fe)-metal-organic framework as cathode catalyst	<i>Journal of Electroanalytical Chemistry</i>	967				2024	10.1016/j.jelechem.2024.118451
16.	Suresh, M; Pravina, R; Shanmugavel, M; Sivasamy, A	Construction of RGO@N-ZnO nanocomposite photocatalyst for disinfection of microbes and dye degradation under visible light irradiation	<i>Journal of the Taiwan Institute of Chemical Engineers</i>	161				2024	10.1016/j.jtice.2024.105510
17.	Borah, RK; Singh, P; Dixit, M; Vernekar, AA	A Ru atomic cluster-installed Co-Co ₂ B nanocatalyst remarkably combats product inhibition while sustaining high turnover frequency of hydrogen production	<i>Journal of Materials Chemistry A</i>	12	31	20256	20269	2024	10.1039/d4ta03527e

18.	Asgari, D; Grüneberg, J; Luo, YK; Küçükkececi, H; Ghosh, S; Chevelkov, V; Fischer-Lang, S; Roeser, J; Lange, A; Dunn, B; Gradzielski, M; Thomas, A	An anionic two dimensional covalent organic framework from tetratopic borate centres pillared by lithium ions	<i>Nature Communications</i>	15	1			2024	10.1038/s41467-024-50953-2
-----	--	---	------------------------------	----	---	--	--	------	----------------------------

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