

CSIR-CLRI Publications for the period APRIL 2024
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APRIL 2024

Sl. No.	AUTHORS	TITLE	SOURCE	VL*	IS*	BP*	EP*	PY*	DOI*
1.	Khambhaty, Y; Samidurai, S	An insight into the microbiome associated with the damage of raw animal hide and skin-primarily protein, during leather making	<i>International Journal of Biological Macromolecules</i>	264				2024	10.1016/j.ijbiomac.2024.130640
2.	Banerjee, K; Rasheeda, K; Tarannum, A; Fathima, NN	Structural and mechanical behavior of type-I collagen fibrils in presence of induced electrostatic interactions through ionic liquids	<i>Biophysical Chemistry</i>	307				2024	10.1016/j.bpc.2024.107192
3.	Singh, P; Dixit, M	Stabilizing Anionic Redox and Tuning Its Extent in Na-Rich Cathode Materials through Electronic Structure Engineering	<i>Journal of Physical Chemistry C</i>	128	22	8883	8893	2024	10.1021/acs.jpcc.4c00811
4.	Biswas, C; Vijayan, V; Panda, SJ; Purohit, CS; Kiran, MS; Ghosh, R	Anti-cancer and anti-angiogenic activities of some synthetic Ni(II) thiosemicarbazone complexes	<i>Polyhedron</i>	252				2024	10.1016/j.poly.2024.116888

5.	Xavier, J; Patnaik, SK; Panda, RC	Nonlinear system identification in coherence with nonlinearity measure for dynamic physical systems-case studies	<i>Nonlinear Dynamics</i>	112	8	6475	6501	2024	10.1007/s11071-023-09258-0
6.	Madhu, V; Mayakrishnan, S; Muthu, J; Sekar, K; Madurai, S	Win-Win Approach Toward Chrome-Free and Chrome-Less Tanning with Waterborne Epoxy Polymers: A Sustainable Way To Curb the Use of Chrome	<i>ACS Sustainable Chemistry & Engineering</i>	12	16	6082	6092	2024	10.1021/acssuschemeng.3c04799
7.	Alam, MS; Babu, KA; Siddiq, AM	Influence of Halide Ions and Temperature on the Thermophysical Properties of Aqueous Zwitterionic Surfactant Solution	<i>Russian Journal of General Chemistry</i>	94	4	904	913	2024	10.1134/S1070363224040182
8.	Pounsamy, M; Rajendran, G; Ramanujam, A; Priyadharsini, V; Ganesan, S	Sustainable valorization of protein-rich tannery saline wastewater: Protein hydrolysate synthesis via protease and Fe ₃ O ₄ porous carbon catalyst	<i>Journal of Water Process Engineering</i>	60				2024	10.1016/j.jwpe.2024.105149

9.	Srivastava, R; Alam, MS	Molecular interaction of human serum albumin with gemini surfactant, 1,6 bis (N,N-hexadecyl dimethyl ammonium) bromide: Influence of micelles and pH	<i>Journal of Molecular Liquids</i>	399				2024	10.1016/j.molliq.2024.124445
10.	Singaravelu, S; Madhan, B; Abrahamse, H; Kumar, SSD	Multifunctional embelin-poly (3-hydroxybutyric acid) and sodium alginate-based core-shell electrospun nanofibrous mat for wound healing applications	<i>International Journal of Biological Macromolecules</i>	265				2024	10.1016/j.ijbiomac.2024.131128
11.	Preethi, RK; Kannadasan, S; Shanmugam, P	One-Pot Triple and Mixed Double Michael Addition of Activated Alkenes to 2-Oxindole and 7-Aza-2-Oxindole: Synthesis of C-3/ <i>N</i> -Functionalized Carbon Rich 2-Oxindole and 7-Aza-2-Oxindole Derivatives	<i>Chemistryselect</i>	9	16			2024	10.1002/slct.202304705
12.	Bhattacharya, R; Kanchinadham, SBK	Recovery and reuse of nitrous oxide from wastewater treatment plants - A step towards carbon neutrality	<i>Journal of Environmental Chemical Engineering</i>	12	2			2024	10.1016/j.jece.2024.112130

13.	Sreekumar, S; Kiran, MS	Localized trans-browning and pro-angiogenesis inductive self-assembled collagen resveratrol bio-matrix for tissue repair and regeneration in obese conditions	<i>International Journal of Biological Macromolecules</i>	263				2024	10.1016/j.ijbiomac.2024.130322
14.	Meganathan, MK; Sundararajan, S; Abu Javid, M; Ramalingam, S	Biocompatible Thermally Responsive Vinyl Sulfone Silica Nanocapsules as Stabilizing and Softening Agents for Metal-Free Leather Production	<i>ACS Applied Nano Materials</i>	7	9	10168	10181	2024	10.1021/acsanm.4c00615
15.	Kumar, BVNP; Lobo, NP; Mattea, C; Stapf, S	Exploring Crystal-Phase Molecular Dynamics of the Low-Viscous Mesogen 6CHBT: A Combined FFC and High-Field NMR Relaxometry Investigation	<i>Journal of Physical Chemistry B</i>	128	16	3997	4007	2024	10.1021/acs.jpcc.3c08259
16.	Nandhagopal, M; Mala, R; Somarathinam, K; Dhakshinamurthy, D; Narayanasamy, M; Vijayan, P; Shankar, MM	Anti-fungal effects of novel <i>N</i> -tert-butyl-2-(pyridin-2-yl)imidazo[1,2-a]pyridin-3-amine derivative and its in-vitro, in-silico, and mode of action against <i>Candida</i> spp.	<i>Archives of Microbiology</i>	206	4			2024	10.1007/s00203-023-03780-w

17.	Choutipalli, VSK; Subramanian, V	Harnessing halogen bond donors for enhanced nitrogen reduction: a case study on metal-free boron nitride single-atom catalysts	<i>Physical Chemistry Chemical Physics</i>	26	16	12495	12509	2024	10.1039/d4cp00076e
18.	Alam, A; Kumbhakar, B; Chakraborty, A; Mishra, B; Ghosh, S; Thomas, A; Pachfule, P	Covalent Organic Frameworks for Photocatalytic Hydrogen Peroxide Generation	<i>ACS Materials Letters</i>	6	5	2007	2049	2024	10.1021/acsmaterialslett.4c00418

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