

CSIR-CLRI Publications for the period of February 2026 (Indexed in SCI-Expanded)

FEBRUARY 2026

Sl. No.	AUTHORS	TITLE	SOURCE	PY*	VL*	IS*	BP*	EP*	DOI*
1.	Manimegalai, NP; Jeyakumar, GFS; Gunasekaran, D; Ramanathan, G; Sivagnanam, UT	Subcritical CO ₂ -expanded nanofibrous scaffold reinforced with alginate-collagen gel for controlled drug release in tissue regeneration	<i>Journal of Supercritical Fluids</i>	2026	228				10.1016/j.supflu.2025.106765
2.	Bansal, D; Sivaganesan, P; Sivaprasad, G; Ilango, J; Das, MK; Chaudhuri, S	Halogen Bond-Driven Oxa-Pictet-Spengler Cyclization Using CBr ₄ : A Metal-Free and Regioselective Approach for the Synthesis of Tetracyclic Dihydrochromenoindole Scaffolds	<i>Synlett</i>	2026	37	3	361	366	10.1055/a-2711-1613
3.	Ilangoan, A; Kanchinadham, SBK	Optimization of pretreatment methods for banana leaf waste and its kinetics studies for effective biogas generation by anaerobic co-digestion with food waste	<i>Process Biochemistry</i>	2026	161		35	47	10.1016/j.procbio.2025.11.009
4.	Baig, M; Srinivasan, S; Vijayalekha, A; Anandasadagopan, SK; Pandurangan, AK	Naringin Infused Hydrogel for Optimal Wound Healing Applications-An In Vitro Study	<i>Journal of Applied Polymer Science</i>	2026	143	8			10.1002/app.70111
5.	Pratap, GK; Nagaraju, PG; Joshi, CG; Sannegowda, LK;	Structure-function characterization of Olea dioica Roxb. PGK-1: Acetylcholinesterase	<i>Neuroscience Letters</i>	2026	872				10.1016/j.neulet.2025.138467

	Shantaram, M; Priyadarshini, P	inhibition, molecular docking, and amelioration of A β 40-induced toxicity in SH-SY5Y neuronal cells and the UAS-A β 42; ey-GAL4 drosophila model of Alzheimer's disease							
6.	Patra, B; Das, N; Joshi, A; Kumar, S; Devi, R; Kundu, B; Raja, NK; Hoque, I; Pal, S; Dey, A; Sarif, J; Singh, N; Kumaar, N; Chawla, RS; Dastidar, UG; Martin, AK; Balamurugan, K; Kumar, BK; Ringe, RP; Ganguly, D; Thakur, KG; Talukdar, A	Targeted screening and rational optimization of basedoxifene analogs as pan-variant SARS-CoV-2 entry inhibitors with improved pharmacokinetics	<i>European Journal of Medicinal Chemistry</i>	2026	304				10.1016/j.ejmech.2025.118462
7.	Narayanan, K; Murugan, KS; Natarajan, TS	Silver nanoparticles integrated SnO ₂ /g-C ₃ N ₄ nanocomposite as highly sensitive electrochemical sensor for ascorbic acid	<i>Journal of Industrial and Engineering Chemistry</i>	2026	154		643	656	10.1016/j.jiec.2025.07.029
8.	Pal, U; Nath, AR; Lakshmi, D; Banerjee, S; Das, AK; Ghosh, A; Sarkar, J	Aqueous dispersion of SWCNT using vegetable oil-based 3-Arm star oligomer: mechanistic investigation and its functional application	<i>New Journal of Chemistry</i>	2026	50	7			10.1039/d5nj04212g
9.	Indhu, M; Sisila, V; Jayasurya, D; Ayyadurai, N	Catechol-linker and receptor-mediated site-specific delivery of bortezomib against non-small cell lung cancer	<i>Journal of Biological Chemistry</i>	2026	302	2			10.1016/j.jbc.2025.111095

10.	Natarajan, P; Nadimuthu, V; Prabhakaran, A; Somasundaram, S	Liquid-phase catalytic oxidation of volatile organic compounds using molybdenum incorporated cobalt-cerium mixed metal oxide catalysts	<i>Journal of Water Process Engineering</i>	2026	82				10.1016/j.jwpe.2026.109505
11.	Vetrivel, V; Gowtham, M; Basavaraj, MG; Aswal, VK; Akilandeswari, G; Ayyadurai, N; Shanmugam, G	Design and self-assembly of an unconventional peptide-based dicephalic surfactant with an inverted architecture	<i>Soft Matter</i>	2026	22	7	1668	1678	10.1039/d5sm01282a
12.	Selladurai, K; Meganathan, MK; Ramalingam, S; Nishter, NF; Jonnalagadda, RR	Ionic liquid capsules for cold-resistant leathers: connecting the three pillars of green chemicals, clean processes and green products	<i>Green Chemistry</i>	2026	28	8	3731	3744	10.1039/d5gc05035a
13.	Padmashrija, AJC; Preethi, RK; Kannadasan, S; Shanmugam, P	Bronsted and Lewis Acid-Catalyzed Diverse Functionalization of Indenoquinoxaline-11-Propargyl Alcohols: Synthesis of 4-Indenoquinoxalinylidene-2,3-diarylcyclobutenone, 1,2-Dimethoxy-2-Aryl-ethylideneindenoquinoxaline, and 2-Methoxy-1-phenyldiaza-benzocyclopentafluorenes	<i>ACS Omega</i>	2026	11	6	10181	10190	10.1021/acsomega.5c11174
14.	Ilangoan, A; Kanchinadham, SBK	Valorization of banana leaf waste for cellulose nanofiber extraction: a sustainable approach for leather applications	<i>Biomass Conversion and Biorefinery</i>	2026	16	3			10.1007/s13399-026-07069-y

15.	Gunalan, S; Somarathinam, K; Kanagaraj, S; Jaimohan, SM; Kothandan, G	Intriguing the significance of hydrophobic groove by the inhibitory mechanism of mineralocorticoid receptor bound with spironolactone through mutations using long-range molecular dynamics simulations in conjunction with statistical analysis	<i>Journal of Molecular Modeling</i>	2026	32	3			10.1007/s00894-026-06639-1
16.	Rahaman, SN; Pranathy, K; Anandasadagopan, SK	Intra-Articular Injectable Chitosan-PVA Hydrogel Ingrained With Gallic Acid Loaded Mesoporous Silica Nanoparticles for Pain Relief and Cartilage Regeneration in Obese Osteoarthritic Rats	<i>Advanced Therapeutics</i>	2026	9	2			10.1002/adtp.202500293

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