

CSIR-CLRI Publications from 01.01.2025 to 31.12.2025 (Indexed in SCI-Expanded)

January – December

Sl. No.	AUTHORS	TITLE	SOURCE	DT*	PY*	VL*	IS*	BP*	EP*	AR*	DOI*
1.	Rajendiran, N; Ganesan, S; Babunarendran, N; Mondal, M; Weichgrebe, D; Venkatachalam, SS	Production and Characterisation of Biochar from Tender Coconut and Sugarcane Bagasse Wastes for Potential Applications in Agricultural Sector	<i>WATER AIR AND SOIL POLLUTION</i>	Article	2025	237	4			254	10.1007/s11270-025-08924-w
2.	Singh, P; Kumar, S; Dixit, M	Understanding the effect of metal-oxygen bond covalency on anionic redox activity of Na-ion-based cathode materials through first-principles	<i>JOURNAL OF CHEMICAL SCIENCES</i>	Article	2025	137	4			111	10.1007/s12039-025-02442-2
3.	Arumugam, M; Subha, N; Sankar, AR; Natarajan, TS; Yang, HH	Layered double hydroxide materials based next-generation photocatalytic system for CO2 reduction and H2 production applications	<i>FLATCHEM</i>	Article	2025	54				1009 47	10.1016/j.flatc.2025.100947
4.	Sivakumar, P; Raj, CJ; Subramanian, P; Savariraj, AD; Manikandan, R; Singh, P; Dixit, M; Jung, HY	Exploring the Rational Design and Strategy of Metal Ion-Integrated 3D Hierarchical Spinel Oxide Nano/Microarchitecture for Battery-Supercapacitor Hybrid Energy Storage System	<i>SMALL STRUCTURES</i>	Article	2025	6	12				10.1002/sstr.202500645
5.	Jebakumar, M; Pachaiyappan, M; Reeves, CL; Fox, K; Gelmi, A; Ayyadurai, N	3D printable collagen-like protein hydrogels via dynamic covalent assembly for soft tissue engineering	<i>JOURNAL OF MATERIALS CHEMISTRY B</i>	Article	2025	13	48	15565	15582		10.1039/d5tb01716e
	Maurya, A; Singh, P; Gupta, N; Anamika; Dixit, M; Kuila, BK	Engineering Triazine-Based Conjugated Polymer Networks for Boosting Electrocatalytic Hydrogen Evolution Reactions	<i>ACS APPLIED ENERGY MATERIALS</i>	Article	2025	8	23	17199	17208		10.1021/acsaem.5c00638

6.	Bansal, D; Sivaganesan, P; Elanchezian, C; Das, MK; Chaudhuri, S	A critical review on rubriflordinolactones A, B, and C: occurrence, structural diversity, bioactivities, and synthesis	<i>ORGANIC & BIOMOLECULAR CHEMISTRY</i>	Review	2025	23	48	10817	10839		10.1039/d5ob01614b
7.	Elavarasan, P; Kannadasan, S; Shanmugam, P	One-Pot Functionalization at C-2,2'-Oxidation and C-3,3'-Bromination of 3,3'-Azaindolylmethane Using NBS/CAN as a Reagent: Synthesis of Brominated 3,3'-Bis-7-Aza-2-indalones	<i>ASIAN JOURNAL OF ORGANIC CHEMISTRY</i>	Article	2025	14	12				10.1002/ajoc.70247
8.	Nagaraj, S; Thanikaivelan, P	Advanced hybrid nanocomposites derived from natural polymers: A comprehensive review on strategies for mitigating emerging contaminants	<i>JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING</i>	Review	2025	13	6			120046	10.1016/j.jece.2025.120046
9.	Sreekumar, S; Kiran, MS	Combinatorial Efficacy of Apigenin-Resveratrol Collagen Bio-Matrix for Wound Repair and Regeneration in Abnormal Lipid Expansion	<i>WOUND REPAIR AND REGENERATION</i>	Article	2025	33	6			e70114	10.1111/wrr.70114
10.	Sundarapandian, A; Pachaiyappan, M; Aarthy, M; Jangra, S; Shanmugam, G; Anandasadagopan, SK; Jaganathan, M; Ayyadurai, N	Self-Assembling Synthetic Congener Collagen Mini-Fibrils With Genetically Encoded Hydroxyproline and 3,4-Dihydroxyphenylalanine for Wound Healing	<i>JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A</i>	Article	2025	113	11			e38014	10.1002/jbm.a.38014
11.	Nair, VV; Esackraj, K; Subramanian, V; Sekar, G	Development of Cationic Enantioselective Domino Carbopalladation/C(sp ³)-Pd Capture Using N-Tosylhydrazones as Diazo Precursors	<i>ORGANIC LETTERS</i>	Article	2025	27	44	12356	12362		10.1021/acs.orglett.5c03985
12.	Unnikrishnan, AC; Parthiban, H; Shanmugam, G	Self-disassembling supramolecular hydrogel from functionalized ultrashort peptides without external stimuli	<i>SOFT MATTER</i>	Article	2025	21	45	8624	8628		10.1039/d5sm00900f

13.	Sivaganesan, P; Sivaprasad, G; Bansal, D; Das, MK; Chaudhuri, S	A Practical and Scalable Synthesis of Cyclized and Uncyclized Xanthene-1,8-Dione Derivatives Using Cyanuric Chloride as a Green Organocatalyst	<i>EUROPEAN JOURNAL OF ORGANIC CHEMISTRY</i>	Article	2025	28	45					10.1002/ejoc.202500921
14.	Bhise, R; Kadrekar, R; Singh, P; Nidamanuri, N; Arte, P; Nath, P; Wang, Y; Sheikh, AD; Dixit, M; Sahu, SP	Facile Single-Step Synthesis of PVP-Stabilized Ru NPs for Electrochemical Hydrogen Generation	<i>ENERGY & FUELS</i>	Article	2025	39	43	20896	20907			10.1021/acs.energyfuels.5c02899
15.	Anbarasu, S; Sheyara, RTB; Lobo, NP; Samanta, D	Self-Forming Spray-Coated Fibrous Polyurethane with Silica: Superhydrophobicity with Superior Waterproofing and Water-Vapor Permeability	<i>ACS APPLIED POLYMER MATERIALS</i>	Article	2025	7	21	14148	14159			10.1021/acsapm.5c02301
16.	Balasubramanian, S; Dayanidhi, D; Velmurugan, H; Rajkumar, K; Bhoopalan, R; Vasagam, SN; Ganesan, VV	Predictive Modeling of DNA Damage Outcomes: Classification of Mutational Determinants Using Augmented Machine Learning Techniques	<i>CHEMICAL RESEARCH IN TOXICOLOGY</i>	Article	2025	38	11	1856	1870			10.1021/acs.chemrestox.5c00137
17.	Pal, U; Lakshmanan, L; Nasar, AS; Sarkar, J	Fluorine- and Silicone-Free Polymer for Smart Textile via Controlled Radical Polymerization and Its Multifunctional Applications	<i>MACROMOLECULAR RAPID COMMUNICATIONS</i>	Article	2025	46	24					10.1002/marc.202500544
18.	Elanchezhian, C; Ilango, J; Bansal, D; Das, MK; Chaudhuri, S	Collective Synthesis of Indole-Derived Natural Products via Halogen Bond Donor Catalysis: Efficient Access to Arundine, Turbomycin B, and Arsindoline A Through 3,3'-Bis(Indolyl)methane Assembly	<i>JOURNAL OF HETEROCYCLIC CHEMISTRY</i>	Article	2025	62	12	2041	2050			10.1002/jhet.70100
19.	Shyamsundar, K; Helen Kalavathy, M; Panda, R	Ionic Liquid-Enhanced Solvent-Based Fractional Crystallization for Separation of Fatty Acids From Tallow fat-A Modelling Approach	<i>ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING</i>	Article	2025	20	6			e70115		10.1002/apj.70115

20.	Maurya, A; Gupta, N; Singh, P; Bhutani, N; Anamika; Koner, RR; Dixit, M; Kuila, BK	Nitrogen- and Sulfur-Enriched Conjugated Polymer Network as an Electrocatalyst for the Oxygen Reduction Reaction and as a Cathode Material for Zinc-Air Batteries	<i>ACS APPLIED ENERGY MATERIALS</i>	Article	2025	8	19	14408	14416		10.1021/acsaeem.5c02067
21.	Chelliah, PAS; Palaniyandi, S; Katak, S; Kumarasamy, L	Optimization of Substrate to Seed Inoculum Ratio for Enhanced Biogas Production from Vegetable Market Complex Waste	<i>JOURNAL OF ENVIRONMENTAL ENGINEERING</i>	Article	2025	151	10			04025062	10.1061/JOEED.U.EEEN.G-7945
22.	Chakrapani, G; Kumar, VV; Zare, M	Next-Generation Biomaterials: Design Strategies, Clinical Translation, and the Rise of Intelligent Therapeutic Platforms	<i>ACS OMEGA</i>	Review	2025	10	40	46272	46293		10.1021/acsomega.5c06034
23.	Nataraj, G; Chandran, R; Kalipriyadharshini, M; Bansal, D; Shanmugam, E; Das, MK; Chaudhuri, S	Facile access to indolo[2,3-b]quinoline alkaloids via DMSO-mediated cascade cyclization: unveiling their photophysical potential	<i>ORGANIC CHEMISTRY FRONTIERS</i>	Article	2025	12	24	7081	7090		10.1039/d5qo01193k
24.	Borah, RK; Palliyarayil, A; Vernekar, AA	Nature-Inspired Multifunctional Nano-Microreactors: Pd Nanoclusters-Integrated Bioengineered Skin Channels for Effectively Overcoming Product Inhibition and Hydrogen Adherence Challenges During Hydrogen Production	<i>SMALL</i>	Article	2025	21	45			e07222	10.1002/smll.202507222
25.	Philips, DS; Ghosh, S; Saeki, A; Ajayaghosh, A	Structural Tweaking of Zwitterionic Metallosupramolecular Assemblies for Intense NIR Emission and High Charge Carrier Mobility	<i>ANGEWANDTE CHEMIE-INTERNATIONAL EDITION</i>	Article	2025	64	46				10.1002/anie.202516126
26.	Vaishali, M; Sreeram, KJ	Controlled aminolysis of multilayer polyurethane composites for sustainable	<i>JOURNAL OF MATERIALS CHEMISTRY A</i>	Article	2025	13	44	38194	38208		10.1039/d5ta05214a

		upcycling into waterborne polyurethane emulsions									
27.	Jebakumar, M; Pachaiyappan, M; Kamini, NR; Radhakrishnan, J; Ayyadurai, N	Engineered Spider Silk in Core-Shell Multifunctional Fibrous Mat for Accelerated Chronic Diabetic Wound Healing via Macrophage Polarization	<i>ACS BIOMATERIALS SCIENCE & ENGINEERING</i>	Article	2025	11	10	6017	6036		10.1021/acsbiomaterials.5c00737
28.	Gogula, SK; Gangadharappa, VA; Singh, P; Jayaraman, VK; Dixit, M; Prakash, AS	Moisture and air-stable cation disordered O3-type layered cathodes for sodium-ion batteries: experimental and first-principles study	<i>JOURNAL OF MATERIALS CHEMISTRY A</i>	Article	2025	13	44	38335	38349		10.1039/d5ta05874k
29.	Rajendiran, N; Ganesan, S; Weichgrebe, D; Srinivasan, SV	Synergistics approach for enhancement of biogas production from tannery fleshing waste utilizing biochar from banana peduncle waste	<i>CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY</i>	Article	2025	27	12	8051	8063		10.1007/s10098-025-03332-4
30.	Narayanan, K; Murugan, KS; Sutharsan, M; Thomas, M; Natarajan, TS	Solar light-activated ZnO/g-C3N4 nanocomposites with improved water pollutant treatment and antibacterial efficiency	<i>JOURNAL OF NANOPARTICLE RESEARCH</i>	Article	2025	27	9			244	10.1007/s11051-025-06419-7
31.	Wakekar, S; Jana, B; Yarramsetti, S; Ghosh, S; Patro, LN; Maram, PS; Shanmugam, M; Das, C	Hybrid polysaccharide-Nal derived transparent and flexible solid-state electrolyte films for sustainable design of supercapacitors	<i>JOURNAL OF MATERIALS CHEMISTRY A</i>	Article	2025	13	41	35400	35410		10.1039/d5ta04374c
32.	Pachaiyappan, M; Jebakumar, M; Radhakrishnan, J; Ayyadurai, N	An electrically conductive gellan gum/polyvinyl alcohol interpenetrating network hydrogel: a dual crosslinked 3D printing ink for cardiac tissue	<i>JOURNAL OF MATERIALS CHEMISTRY B</i>	Article	2025	13	40	13020	13036		10.1039/d5tb01462j

33.	Nataraj, G; Bansal, D; Chandran, R; Sarkar, S; Das, MK; Chaudhuri, S	CBr4 as an Efficient Halogen Bond Donor Catalyst in Pictet-Spengler Cyclizations: A Metal-Free Approach to the Synthesis of Benzazepinoindoles and Tetrahydro- β -carboline	CHEMISTRY-AN ASIAN JOURNAL	Article	2025	20	22			e70280	10.1002/asia.70280
34.	Chattopadhyay, T; Thangasornaraja, M; Biswas, C; Agrawalla, SK; Purohit, CS; Kiran, MS; Ghosh, R	Metal induced selective anticancer activity of [VV(L')O2] [L' = (1Z, N'E)-N-phenyl-N'-(1-(pyridin-2-yl)ethylidene)carbamothonoate] at thiosemicarbazone appended dioxovanadium(V) site	INORGANIC CHEMISTRY COMMUNICATIONS	Article	2025	182				115335	10.1016/j.inoche.2025.115335
35.	Chatterjee, S; Guha, AK; Chatterjee, B; Banerjee, P; Singha, NR	Sulphate-modified chitosan hydrogel beads a recyclable bio-adsorbent for Cu(II): Experimental and theoretical studies toward nitrogen-/oxygen-donor selective binding and 1:1 complexation	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	Article	2025	323				146997	10.1016/j.ijbiomac.2025.146997
36.	Kumar, B	NMR Approaches to Study Drug-Surfactant Interactions: Insights From NOE, Relaxometry and Diffusometry	MAGNETIC RESONANCE CHEMISTRY IN	Review	2025	63	11	994	1015		10.1002/mrc.70030
37.	Esackraj, K; Choutipalli, VSK; Nulakani, NVR; Ramanujam, K; Ganesan, VV; Shuford, KL; Subramanian, V	Rational Design of BN-Based Biphenylene Analogues as Single-Atom Catalysts for Electrochemical Nitrogen Reduction Reaction	ACS APPLIED ENERGY MATERIALS	Article	2025	8	17	12553	12569		10.1021/acsaem.5c01485
38.	Chinnappan, R; Khan, MA; Mohammad, T; Allwaibh, SM; Easwaramoorthi, S; Yaqinuddin, A; Devansan, S; Mir, TA; Hassan, I	A novel fluorescent probe, triphenylamine rhodamine-3-acetic acid (mRA) for the detection of Amyloid- β aggregates in Alzheimer's disease	FRONTIERS IN NEUROSCIENCE	Article	2025	19				1653063	10.3389/fnins.2025.1653063
39.	Kalangali, VH; China, CR; Kanth, SV; Njau, KN	Optimizing Natural Dye Extraction from the Bark of Bridelia micrantha for Dyeing Vegetable-Tanned Leather Using Statistical Modeling	FIBERS AND POLYMERS	Article	2025	26	11	4917	4931		10.1007/s12221-025-01126-5

40.	Valappil, S; Madhav, MC; Raghavan, SS; Nagaraj, A; Easwaramoorthi, S; Vijayavenkataraman, S; Ponesakki, G; Niraikulam, A	Mussel foot protein with genetically incorporated hydroxyproline and DOPA exhibits enhanced phase separation and underwater adhesion	<i>INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES</i>	Article	2025	322					146609	10.1016/j.ijbiomac.2025.146609
41.	Dineshkumar, K; Kalipriyadharshini, M; Karuppusamy, M; Selvaraju, C; Balamurugan, K; Saravanan, C; Easwaramoorthi, S	Chloroform-Driven Excited-State Protonation of Pyrene-Dialkylaniline Derivatives Under Visible Light	<i>CHEMISTRY-AN ASIAN JOURNAL</i>	Article	2025	20	20					10.1002/asia.202500553
42.	Veeraprakash, B; Pratap, G; Lobo, NP; Ramanathan, KV; Narasimhaswamy, T	Mesophase Properties and Molecular Order of Shape Anisometrically Divergent Thiophene Mesogens	<i>CHEMPHYSCHEM</i>	Article	2025	26	19					10.1002/cphc.202500233
43.	Veeraprakash, B; Reddy, MK; Lobo, NP; Ramanathan, KV; Narasimhaswamy, T	¹³ C NMR Studies and Orientational Order of Mesogens With Thiophene and Dimethylamino in Terminal Position	<i>MAGNETIC RESONANCE IN CHEMISTRY</i>	Article	2025	63	11	864	877			10.1002/mrc.70021
44.	Mukherjee, S; Gowtham, M; Yogeswaran, G; Jangra, S; Basavaraj, MG; Aswal, VK; Balamurugan, K; Ayyadurai, N; Shanmugam, G	Tailorable and biocompatible collagen-based peptides as distinctive surfactants with micellar self-assembly	<i>COLLOIDS AND SURFACES BIOPINTERFACES</i>	Article	2025	256					115004	10.1016/j.colsurfb.2025.115004
45.	Vijayalekha, A; Sridhar, H; Srinivasan, S; Anumaiya, V; Anandasadagopan, SK; Pandurangan, AK	Integrative network pharmacology and experimental validation of rutin-infused collagen-hydroxyapatite scaffold for promoting osteochondral regeneration	<i>3 BIOTECH</i>	Article	2025	15	9				290	10.1007/s13205-025-04461-9
46.	Huligujje, S; Duraisamy, DK; Shanmugam, G; Deshpande, AP	Bifunctionalization of L-Lysine with Aromatic and Aliphatic Moieties Converts It into a Super Organogelator in DMSO	<i>LANGMUIR</i>	Article	2025	41	32	21435	21444			10.1021/acs.langmuir.5c02025

47.	Oluba, OM; Muthusamy, S; Subbiah, N; Palanisamy, T	Sustainable packaging using Aloe vera infused mango starch-wool keratin biocomposite films to extend the shelf life of mango	<i>SCIENTIFIC REPORTS</i>	Article	2025	15	1				29098	10.1038/s41598-025-07945-z
48.	Ravichandran, S; Thanikaivelan, P	Sustainable solar driven photodegradation of ranitidine hydrochloride and tetracycline using Ag ₂ O-TiO ₂ /carbon nanocomposite: mechanistic insights and environmental implications	<i>MATERIALS TODAY SUSTAINABILITY</i>	Article	2025	31					101191	10.1016/j.mtsust.2025.101191
49.	Arunachallam, P; Kumaravel, V; Gopal, SR	Immobilization of α -amylase from <i>Aspergillus tamarii</i> MTCC5152: A comparative study of matrices and techniques	<i>BIOCATALYSIS AND BIOTRANSFORMATION</i>	Article	2025	43	5	510	521			10.1080/10242422.2025.2542570
50.	Vijayalekha, A; Anandasadagopan, SK; Gopal, T; Durai, S; Anumaiya, V; Pandurangan, AK	Fish Collagen-Based Bilayer Composite Scaffold With Functionalized With Fibrin/Hydroxyapatite/Sodium Citrate for Osteochondral Tissue Engineering-In Vitro and In Vivo Studies	<i>JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A</i>	Article	2025	113	8				e37977	10.1002/jbm.a.37977
51.	Pranathy, K; Pathmanapan, S; Ganesan, P; Anandasadagopan, SK	Biofabricated genistein incorporated collagen scaffold for enhanced mineralization with refined osteogenic efficacy	<i>JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS</i>	Article	2025	40	5-6	459	479			10.1177/08839115251359662
52.	Bansal, D; Nataraj, G; Das, MK; Chaudhuri, S	A Serendipitous Non-Metal-Mediated Sp ³ C—H Functionalization of 2-Methyl Indolyl Scaffold for the Synthesis of 2-Alkenyl Indoles	<i>ASIAN JOURNAL OF ORGANIC CHEMISTRY</i>	Article	2025	14	10					10.1002/ajoc.202500575
53.	Lobo, NP; Das, BB; Ramanathan, KV; Narasimhaswamy, T	Influence of four-unit link and terminal substituents on molecular order of three ring-based nematogens - A ¹³ C NMR Investigation	<i>LIQUID CRYSTALS</i>	Article	2025	52	11	838	854			10.1080/02678292.2025.2531102

54.	Karim, A; Malekshah, RE; Swaminathan, S; Haribabu, J; Subarkhan, MKM; Arulraj, A; Moraga, D; Santibanez, JF; Oyarzún, DP; Jeyalakshmi, K; Romero, FG; Hsu, SCN	Synthesis, structural elucidation, and anticancer mechanisms of Pd (II)-acylthiourea complex: An integrated experimental and theoretical investigation	<i>INORGANIC CHEMISTRY COMMUNICATIONS</i>	Article	2025	181					115128	10.1016/j.inoche.2025.115128
55.	Annamalai, D; Ramamoorthy, T; Soloman, AM; Gopinath, A; Masilamani, D; Bharathi, S; Raja, IS; Han, DW; Madhan, B	Combinatorial Glyoxal Cross-Linking and Glutamic Acid Capping for Mitigating Calcification in Bovine Pericardium	<i>CHEMISTRY-AN ASIAN JOURNAL</i>	Article	2025	20	19					10.1002/asia.202500652
56.	Alam, A; Chakraborty, P; Chakraborty, A; Ghosh, S; Pachule, P	Donor-Acceptor Covalent Organic Frameworks for Photocatalytic Water Oxidation and Oxygen Reduction Reactions	<i>CHEMCATCHEM</i>	Review	2025	17	16					10.1002/cctc.202501000
57.	Jayadharini, J; Swaminathan, S; Kasim, MSM; Bhuvanesh, N; Karvembu, R	Ru(II)-Arene Complexes of Pyrazole-Based Acylthiourea for Anticancer Application against Ovarian Cancer Cell Lines: Effect of Arene, Halido, and Acylthiourea Ligands	<i>ORGANOMETALLICS</i>	Article	2025	44	14	1545	1557			10.1021/acs.organomet.5c00096
58.	Selvaraj, S; Nishter, NF	Advances in Antioxidant Nanofibers for Skin Tissue Engineering: A Comprehensive Review	<i>CHEMISTRYSELECT</i>	Review	2025	10	27				e03190	10.1002/slct.202503190
59.	Jana, S; Stephen, K; Samanta, D; Jaisankar, SN	3-Phenyl-1H-pyrazole as blocking agent: one-pot synthesis of polyurethane nanocomposites from blocked toluene diisocyanate and single-walled carbon nanotubes	<i>JOURNAL OF THE INDIAN CHEMICAL SOCIETY</i>	Article	2025	102	8				101852	10.1016/j.jics.2025.101852
60.	Kumar, SA; Gouthaman, S; Periyasamy, BK; Suguna, ML	Optically Tunable and Highly Stable Light-Emitting Polymer/PMMA Blends via the Controlled Oxidation of MEH-PPV Using Benzoyl Peroxide	<i>ACS OMEGA</i>	Article	2025	10	28	30013	30022			10.1021/acsomega.4c10889

61.	Alva, V; Jain, P; Khan, K; Zameer, F; Kumar, PP; Prashanth, KVH; Gopal, S; Niranjana, V; Sahu, B; Ravish, H; Raghu, A; Raghavendra, HL; Apturkar, KD	Helicobacter pylori associated MicroRNA and transcriptional networks in gastric pathogenesis: Exploring the epigenetic dialogue landscape	<i>MICROBIAL PATHOGENESIS</i>	Article	2025	207					107864	10.1016/j.micpath.2025.107864
62.	Jeyakumar, GFS; Velswamy, P; Gunasekaran, D; Paulraj, AV; Manimegalai, NP; Sivagnanam, UT	Injectable hybrid hydrogel-mediated calcium-sensing receptor (CaSR) activation for enhanced osteogenesis and bone remodeling	<i>BIOMATERIALS SCIENCE</i>	Article	2025	13	17	4770	4785			10.1039/d5bm00349k
63.	Meganathan, MK; Arunachalam, R; Ramalingam, S	Valorization of Waste Pickle Liquor from Tanneries: A Greener Approach to Synthesize Azo Dyes	<i>ACS SUSTAINABLE CHEMISTRY & ENGINEERING</i>	Article	2025	13	27	10285	10291			10.1021/acssuschemeng.5c02228
64.	Nagabalaji, V; Sahu, B; Sekar, Y; Bhalla, A; Srinivasan, S	Revolutionizing leather treatment with emulsified Chlorella vulgaris oil: a green fatliquor alternative	<i>TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY</i>	Article	2025	107	6	1095	1113			10.1080/02772248.2025.2515409
65.	Ravichandran, S; Thangarasu, D; Ravichandran, A; Dorai, S; Ayyadurai, N; Sivapackiam, J; Periasamy, S	Coral Microbiomes and Biofilms: Ecological Features, Response to Microbial Infections, and Conservation Strategies	<i>MARINE ECOLOGY-AN EVOLUTIONARY PERSPECTIVE</i>	Review	2025	46	4				e70036	10.1111/maec.70036
66.	Ilangovan, A; Balakrishnan, A; Kanchinadham, SBK	Conversion of lignocellulosic waste biomass into valuable derivatives and their pretreatment potential: An overview	<i>ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY</i>	Review	2025	44	5					10.1002/ep.70021
67.	Elanchezhian, C; Bansal, D; Sivaprasad, G; Das, MK; Chaudhuri, S	A New Homogeneous Catalyst for the Synthesis of 3,3'-Bis(indolyl)methanes: Collective Synthesis of Arundine, Turbomycin B, Arsindoline A, and Tris(1H-Indol-3-yl)methane	<i>EUROPEAN JOURNAL OF ORGANIC CHEMISTRY</i>	Article	2025	28	27				e202500396	10.1002/ejoc.202500396
68.	Banerjee, K; Sreesaila, S; Hemalatha, T; Fathima, NN	Physicochemical studies of asarylaldehyde crosslinked type-I collagen fibrils	<i>JOURNAL OF MOLECULAR STRUCTURE</i>	Article	2025	1344					142972	10.1016/j.molstruc.2025.142972

69.	Anithabanu, P; Sneha, S; Vaidyanathan, VG	Tagging of collagen with red emissive Ru(II) complex for biological application	<i>INORGANICA CHIMICA ACTA</i>	Article	2025	587					1228 19	10.1016/j.ica.2025.122819
70.	Kavalappa, YP; Stephen, NM; Jayalakshmi, KB; Sugawara, T; Manabe, Y; Hirata, T; Ponesakki, G	Siphonaxanthin inhibits the growth of breast cancer cell subtypes by modulating the expression of cellular proteins associated with antioxidant defence, cell survival and apoptosis signaling	<i>MEDICAL ONCOLOGY</i>	Article	2025	42	7				259	10.1007/s12032-025-02798-y
71.	Sasikala, H; Meganathan, MK; Ramalingam, S	Self-healing aroma-Schiff base functionalized polyurethane for scratch resistant flexible fabrics	<i>PROGRESS IN ORGANIC COATINGS</i>	Article	2025	207					1094 31	10.1016/j.porgcoat.2025.109431
72.	Muthukumar, K; Loganathan, T; Kumar, SS; Prabhakar, P; Vishnu, S; Senthil, S	Hydrogen-rich syngas production from food waste via supercritical water gasification: Influence of gasification temperature and polyaniline and potassium carbonate (PANI-K ₂ CO ₃) catalyst	<i>INTERNATIONAL JOURNAL OF HYDROGEN ENERGY</i>	Article	2025	141		145	154			10.1016/j.ijhydne.2025.05.375
73.	Murali, P; Solaimuthu, A; Korrapati, PS	Biomimetic Dermatopontin-Collagen Nanocomposite for Accelerated Wound Healing and ECM Remodeling in Chronic Wound Conditions	<i>JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A</i>	Article	2025	113	6				e379 35	10.1002/jbm.a.37935
74.	Pathmanapan, S; Anandasadagopan, SK	Biomimetic collagen-based bilayer scaffolds for effectual dentin pulp regeneration	<i>TISSUE ENGINEERING PART A</i>	Meeting Abstract	2025	31	11-12	E912	E913			
75.	Nakashima, K; Sugawara, Y; Fujita, M; Yaegashi, A; Chen, MQ; Gowthaman, S; Nawarathna, THK; Mwandira, W; Kamini, NR; Sujiritha, PB; Takano, C; Kawasaki, S	In situ mineral formation on a plate for direct and efficient screening of bacteria suitable for biocementation	<i>SCIENTIFIC REPORTS</i>	Article	2025	15	1				1870 6	10.1038/s41598-025-01350-2

76.	Nisha, S; Poonam, G; Sudhakara, P; Sharma, S; Misra, SK; Vanaraj, R	Eco-Friendly Microcapsules of Clove Oil Using Collagen Hydrolysate and Chitosan Derived From Chrome Shavings	<i>CHEMISTRYSELECT</i>	Article	2025	10	20				e05125	10.1002/slct.202405125
77.	Bansal, D; Sivaganesan, P; Nataraj, G; Elanchezhian, C; Das, MK; Chaudhuri, S	Pentafluorophenol (C6F5OH) catalyzed Regioselective annulation for the synthesis of tetracyclic Dihydrochromeno indoles	<i>TETRAHEDRON LETTERS</i>	Article	2025	165					155660	10.1016/j.tetlet.2025.155660
78.	Jangra, A; Babu, B; Divakar, S; Gowramma, B; Rajan, S; Jangra, S; Malakar, V	An in-depth review of PPAR γ modulators as anti-diabetes therapeutics	<i>DRUG METABOLISM REVIEWS</i>	Review	2025	57	4	311	337			10.1080/03602532.2025.2508152
79.	Sahu, S; Mondal, JH; Alam, MS; Easwaramoorthi, S	Monodispersed blue-emissive nanosphere using aromatic cationic gemini and anionic surfactants: A tailored pseudo-double-tailed configuration	<i>COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS</i>	Article	2025	721					137140	10.1016/j.colsurfa.2025.137140
80.	Arunachalam, B; Dhathathreyan, A; Palanisamy, T	Protease encapsulated liposomes for twin benefits: a green approach to unhairing and soft leather production	<i>JOURNAL OF LIPOSOME RESEARCH</i>	Article	2025	35	4	370	381			10.1080/08982104.2025.2504019
81.	Solaimuthu, A; Murali, P; Vijayan, AN; Korrapati, PS	Nano-Engineered Hybridized Polymeric Framework for Chronic Wound Management	<i>AAPS PHARMSCITECH</i>	Article	2025	26	5				134	10.1208/s12249-025-03124-5
82.	Sundarapandian, A; Suresh, P; Valappil, S; Ayyadurai, N	Intrinsic proton transfer activation of I-DOPA encoded carbonic anhydrase for efficient CO ₂ sequestration	<i>PHYSICAL CHEMISTRY CHEMICAL PHYSICS</i>	Article	2025	27	22	11492	11498			10.1039/d5cp00868a
83.	Ravindran, B; Chang, SW; Maragathavalli, S; Kim, SS; Karmegam, N; Dowlath, MJH; Rajabathar, J; Al-Lohedan, H; Maharaja, P; Thamaraiselvi, C	Synergistic effects of biochar and the importance of feedstock composition during co-composting food waste and livestock manure	<i>CARBON LETTERS</i>	Article	2025	35	5	2169	2182			10.1007/s42823-025-00913-7

84.	Sivaganesan, P; Bansal, D; Nazar, NA; Das, MK; Chaudhuri, S	A Transition Metal-Free Strategy for Dihydrobenzazepinoindole via KI-Mediated Oxidative Pictet-Spengler Reaction	CHEMISTRY-AN ASIAN JOURNAL	Article	2025	20	14				10.1002/asia.202500498
85.	Chowdhury, C	Quantum support vector classifier for phase diagram prediction in quinary systems	MATERIALS HORIZONS	Article	2025	12	14	5325	5330		10.1039/d5mh00027k
86.	Vinayagam, M; Babu, RS; Sivasamy, A; de Barros, ALF	Enhanced capacitive performances of polypyrrole with integration of biomass derived activated carbon for supercapacitors	IONICS	Article	2025	31	6	6255	6263		10.1007/s11581-025-06322-0
87.	Gayathri, V; Sheyara, RTB; Satheeshkumar, M; Prem, S; Ayyadurai, N; Lobo, NP; Samanta, D	Click-Chemistry Based Functionalization of Biomolecules and Biopolymers Using a Thermo-Responsive Smart Catalyst	CHEMISTRYSELECT	Article	2025	10	16			e202404941	10.1002/slct.202404941
88.	Rao, PM; Karmakar, J; Pal, U; Sen, D; Sarkar, J	Recent Advances in Acrylate-Based Smart Hydrogels: Synthesis, Applications, and Future Directions	MACROMOLECULAR CHEMISTRY AND PHYSICS	Review	2025	226	13				10.1002/macp.202400539
89.	Sivaganesan, P; Bansal, D; Elanchezhian, C; Nataraj, G; Das, MK; Chaudhuri, S	Synthesis of Dihydrobenzazepinoindoles via an Oxidative Pictet-Spengler Reaction	ASIAN JOURNAL OF ORGANIC CHEMISTRY	Article	2025	14	6				10.1002/ajoc.202500327
90.	Annadurai, A; Alam, MS	Physicochemical, Thermal, and Surface Behavior of Fatliquors and Their Applications in Leather Processing and Sustainability	JOURNAL OF CHEMICAL AND ENGINEERING DATA	Review	2025	70	5	1783	1800		10.1021/acs.jced.4c00749
91.	Karthikraja, E; Nulakani, NVR; Devi, P; Murugan, P; Ramanujam, K; Vaidyanathan, VG; Subramanian, V	First-principles insights into biphenylene-based graphynes: promising novel two-dimensional carbon allotropes for thermoelectric applications	JOURNAL OF CHEMICAL SCIENCES	Article	2025	137	2			29	10.1007/s12039-025-02361-2

92.	Maharaja, P; Murugan, KP; Karthiyayini, C; Kameswari, KSB; Sudha, D; Sabarishwaran, G; Sekaran, G	Evaluation of fenton-like oxidation coupled with struvite precipitation for the enhanced treatment of Cu-contaminated ammoniacal nitrogen-rich wastewater	<i>JOURNAL OF ENVIRONMENTAL MANAGEMENT</i>	Article	2025	381					125204	10.1016/j.jenvman.2025.125204
93.	Antony, GS; Ramkumar, M; Sujiritha, B; Vikash, N; Rajaram, K; Ganesan, P; Ayyadurai, N; Kamini, NR	Leiotrametes flavida MTCC 12927 laccase: scaleup, purification and its application for dye decolourisation enhanced by water-soluble mediator TEMPOL	<i>3 BIOTECH</i>	Article	2025	15	4				106	10.1007/s13205-025-04259-9
94.	Vikash, VL; Kamini, NR; Ponesakki, G; Anandasadagopan, SK	Keratinous bioresources: their generation, microbial degradation, and value enhancement for biotechnological applications	<i>WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY</i>	Review	2025	41	4				118	10.1007/s11274-025-04336-4
95.	Mukherjee, S; Varshashankari, V; Feba, A; Ayyadurai, N; Balamurugan, K; Shanmugam, G	Hyperstable and Fibril-Forming Collagen-Mimetic Peptides in Shortest Triple Helices: Empowering the Capping by π -systems	<i>BIOMACROMOLECULES</i>	Article	2025	26	4	2171	2185			10.1021/acs.biomac.4c01455
96.	Preethi, RK; Kannadasan, S; Shanmugam, P	Synthesis of Dispiro-[Indoline-3,1'-Cyclopropane-2',3''-Indoline]-2,2''-Diones via Thermal [2+1] Cycloaddition Between 3-Alkylidene-7-Aza-2-Indolones and 3-Diazo-7-Aza-2-Oxindoles	<i>EUROPEAN JOURNAL OF ORGANIC CHEMISTRY</i>	Article	2025	28	14					10.1002/ejoc.202401359
97.	Patra, K; Deb, S; Choutipalli, VSK; Mulani, S; Mallik, S; Subramanian, V; Baidya, M	Transforming 2D azolium salts to 3D caged tertiary amines via stereoselective dearomative cascade annulation	<i>CHEMICAL SCIENCE</i>	Article	2025	16	17	7551	7559			10.1039/d5sc01527h
98.	Elanchezhian, C; Bansal, D; Sivaganesan, P; Nataraj, G; Das, MK; Chaudhuri, S	A convenient ammonium chloride facilitated mild and efficient synthesis of Benzazepinoindole derivatives through a Pictet-Spengler reaction	<i>TETRAHEDRON LETTERS</i>	Article	2025	160					155529	10.1016/j.tetlet.2025.155529

99.	Gogoi, A; Dixit, M; Pal, S	Modelling an Fe-III High-Valent Pincer-type Transition Metal Complex for Dehydrogenation of Ammonia-Borane	CHEMISTRY-AN ASIAN JOURNAL	Article	2025	20	11				e202401976	10.1002/asia.202401976
100.	Divya, D; Mutharasan, A; Sharmila, G; Settu, M	Experimental and theoretical investigations on wavelength-specific probe for divalent metal ion detection	SCIENTIFIC REPORTS	Article	2025	15	1				8790	10.1038/s41598-025-88039-8
101.	Choudhary, P; Shaw, A; Ramalingam, B; Das, SK	Nanoengineered and highly porous 3D chitosan-graphene scaffold for enhanced antibacterial activity and rapid hemostasis	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	Article	2025	306					141521	10.1016/j.ijbiomac.2025.141521
102.	Natesan, V; Nithyashree, MK; Fathima, N	Synthesis of n-eicosane with SiO ₂ through interfacial hydrolysis and polycondensation for thermoregulated leather fabrication	JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS	Article	2025	171					106060	10.1016/j.jtice.2025.106060
103.	Rahaman, SN; Lishadevi, M; Anandasadagopan, SK	Unraveling the Molecular Mechanisms of Osteoarthritis: The Potential of Polyphenols as Therapeutic Agents	PHYTOTHERAPY RESEARCH	Review	2025	39	5	2038	2071			10.1002/ptr.8455
104.	Kartik, R; Muthusamy, S; Shelly, K; Surendiran, M	Chemical Modifications of Chitin and Chitosan Fibers and Filaments: A Review	MACROMOLECULAR CHEMISTRY AND PHYSICS	Review	2025	226	12					10.1002/macp.202400422
105.	Vinayagam, M; Babu, RS; Sivasamy, A; de Barros, ALF	Improved capacitive performance of conducting polymer with incorporation of biomass derived activated carbon for supercapacitors	DIAMOND AND RELATED MATERIALS	Article	2025	154					112165	10.1016/j.diamond.2025.112165
106.	Gunasekaran, D; Jeyakumar, GFS; Manimegalai, NP; Sivagnanam, UT	Thiol-functionalized collagen patch channelizes TGFβ1-JNK trafficking and reverses corneal stroma opacity	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	Article	2025	306					141327	10.1016/j.ijbiomac.2025.141327
107.	Kurian, E; Pitchai, J; Neelanarayanan, S; Kumar, D; Jaisankar, SN; Ramesha, K	Thermoplastic polyurethane (TPU) based high-performing solid polymer electrolytes for solid-state lithium metal batteries	JOURNAL OF ENERGY STORAGE	Article	2025	115					115882	10.1016/j.est.2025.115882

108.	Sardana, H; Kumar, BVNP; Ramakrishnan, S	Tracking solvent-induced conformational collapse of periodically grafted amphiphilic polymers using PFG NMR diffusometry	<i>SOFT MATTER</i>	Article	2025	21	13	2471	2479		10.1039/d5sm00031a
109.	Stephen, K; Ravi, S; Samanta, D	Urethane Bond-Mediated Cross-Linking of Natural Rubber with Functionalized Silica Nanoparticles: Achieving Multifold Enhancement of Material Properties	<i>INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH</i>	Article	2025	64	9	4882	4893		10.1021/acs.iecr.4c04050
110.	Venugopal, S; Khambhaty, Y	Greener route towards preparation of plant-based antifungal fatliquor for eco-conscious application during leather making	<i>JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH</i>	Article	2025	22	3	1099	1112		10.1007/s11998-024-01036-w
111.	Panbhukarasu, S; Vijayalekha, A; Natarajan, K; Anandasadagopan, SK; Pandurangan, AK	Integrated network pharmacology and bio-functional chitosan-hydroxyapatite scaffolds incorporating quercetin for enhanced bone regeneration in articular cartilage defects	<i>JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS</i>	Article	2025	40	3	248	266		10.1177/0883915251318682
112.	Ezhilarasan, D; Karthick, M; Sharmila, M; Sanjay, S; Mani, U	Deciphering the Molecular Mechanisms of HAART-Induced Hepatotoxicity	<i>JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY</i>	Review	2025	39	2			e70174	10.1002/jbt.70174
113.	Srinivasan, P; Jayakumar, GC; Madhan, B	Pretreatment of skins with masked silicates for low-pollution emission tanning technology	<i>CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY</i>	Article	2025	27	9	4401	4414		10.1007/s10098-025-03133-9
114.	Narayanan, K; Murugan, KS; Natarajan, TS	Ag@NiO/g-C3N4 nanocomposite: an efficient and high-performance electrochemical sensor for acetaminophen detection	<i>NEW JOURNAL OF CHEMISTRY</i>	Article	2025	49	11	4703	4715		10.1039/d4nj05527f

115.	Siddiqui, M; Alam, MS; Ali, M	Exploring the Potential of PEG-Based Deep Eutectic Solvents as a Sustainable Alternative for Extraction of Biological Macromolecules Bovine Serum Hemoglobin	ACS OMEGA	Article	2025	10	7	6839	6856		10.1021/acsomega.4c09125
116.	Divya, D; Nandhagopal, M; Thennarasu, S	Deprotonation of the -NH proton from a pyrrole moiety enables concentration-dependent colorimetric and fluorescence quenching of silver(i) ions	NEW JOURNAL OF CHEMISTRY	Article	2025	49	10	3918	3929		10.1039/d4nj04758c
117.	Rajagopalan, P; Saravanan, S; Ranganathan, M; Sreeram, KJ; Gopal, S	Fluorescence Enhanced Water-Soluble Ruthenium Complex: Advancing Precision in Cr(VI) Detection and Quantification	JOURNAL OF FLUORESCENCE	Article	2025	35	9	8479	8491		10.1007/s10895-025-04150-z
118.	Shelly, K; Kartik, R; Dhamodharan, R	Facile chemical modification of solid alkaline lignin and chitosan via nucleophilic substitution with organohalides in the vapor phase	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	Article	2025	304				140696	10.1016/j.ijbiomac.2025.140696
119.	Sundar, JV; Jesni, MJ; Rajapandian, V; Prakash, M; Subramanian, V	Exploring the Reaction Surface of Cu(I) Transfer from Atx1 to Ccc2a Protein: A Theoretical Study	CHEMISTRYSELECT	Article	2025	10	6			e202403612	10.1002/slct.202403612
120.	Varghese, A; Jawahar, M; Prince, AA	LeaData a novel reference data of leather images for automatic species identification	SCIENTIFIC REPORTS	Article	2025	15	1			4493	10.1038/s41598-025-88040-1
121.	Dash, UC; Nayak, V; Navani, HS; Samal, RR; Agrawal, P; Singh, AK; Majhi, S; Mogare, DG; Duttaroy, AK; Jena, AB	Understanding the molecular bridges between the drugs and immune cell	PHARMACOLOGY & THERAPEUTICS	Review	2025	267				108805	10.1016/j.pharmthera.2025.108805
122.	Sivaganesan, P; Ganesan, L; Subiksha, VL; Pal, S; Dam, S; Sarkar, J; Chaudhuri, S	Efficient, One-Pot, Green Syntheses of Analogues of 3,4-Dihydro-2H Pyrroles as Potential New Antifungal and Antibacterial Agents.	CHEMISTRYSELECT	Article	2025	10	3			e202404705	10.1002/slct.202404705

123.	Sundaramurthy, SL; Geetha, K; Shanmugam, G; Gomathi, T; Logesh, G; Vijayakumar, S	Synthesis, crystal structure, characterization and antimicrobial activities of ternary chiral mononuclear Schiff base copper(II) complexes	<i>JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY</i>	Article	2025	88					1275 90	10.1016 /j.jtemb. 2025.12 7590
124.	Maharaja, P; Athithyan, I; Karthyayini, C; Kameswari, KSB	Evaluation of ozonation and electro oxidation treatment for the removal of organics and salt recovery from RO reject from leather industries: Sustainable approach for the management of contaminated salt in CETPs	<i>APPLIED CATALYSIS O: OPEN</i>	Article	2025	200					2070 28	10.1016 /j.apcato .2025.2 07028
125.	Fatrekar, AP; Vernekar, AA	A self-assembled nanozyme featuring precise active centers and topography exhibits controlled catalytic interplay with mitochondrial protein while regulating electron flow during bioinspired oxygen reduction	<i>JOURNAL OF MATERIALS CHEMISTRY A</i>	Article	2025	13	6	4299	4308			10.1039 /d4ta06 131d
126.	Padmashrija, AJC; Kannadasan, S; Shanmugam, P	Synthesis of Indenoquinoxalinone-5- (furano, pyrano, and oxepino)spiro Ethers from Alkenylated Propargyl Ethers of Indenoquinoxalinone via Ring-Closing Enyne Metathesis	<i>SYNLETT</i>	Article	2025	36	08	1021	1028			10.1055 /a-2489- 7403
127.	Padmashrija, AJC; Kannadasan, S; Shanmugam, P	I2/p-TSA: An efficient reagent for regioselective synthesis of angularly fused diazabenzocyclo- pentafluorene via iodocyclisation of 11- (arylethynyl)-11H-indeno[1,2- b]quinoxalin-11-ol	<i>TETRAHEDRON LETTERS</i>	Article	2025	156					1554 48	10.1016 /j.tetlet.2 024.155 448
128.	Jawahar, M; Jayashree, N; Raj, BE; Dhanya, D	Comprehensive Evaluation of GAN Architectures for Acute Lymphoblastic Leukemia Classification	<i>INTELLIGENT COMPUTING SYSTEMS, ISICS 2024</i>	Proce eding s Paper	2025	2381		215	226			10.1007 /978-3- 031- 82931- 4_16

129.	Muthu, SE; Gaddala, B; Ananthakrishnan; Somanathan; Mandal; Kannan, K; Balaraman, NK; Arumugam, S	MAGNETIC PROPERTIES AND EXCHANGE BIAS BEHAVIOR OF POLY(4-(OCTYLOXY) PHENYL-5-(THIOPHEN-3-YL)-2-NAPHTHOATE): INSIGHTS FROM TEMPERATURE-DEPENDENT MAGNETIZATION AND EPR SPECTROSCOPY	<i>BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA</i>	Article	2025	39	4	791	798		10.4314 /bcse.v3 9i4.14
130.	Prabhakaran, H; Sakthivel, K; Kanemoto, SO; Madhu, V; Madurai, SL	Indigenous Development of Technology for Enhanced Shelf-Life Resin Formulations Suitable for CFRP Prepregs	<i>ADVANCES IN MATERIALS AND MANUFACTURING PROCESSES FOR COMPOSITE APPLICATIONS, AMMPCOM, INCCOM-18</i>	Proceedings Paper	2025	83		431	443		10.1007 /978-981-96-8734-3_29
131.	Raman, MA; Murali, RC; Karthikeyan, K; Lakshmi, MS	Bio-renewable, Nonvolatile, and Low Carbon: Leather Dust Composite Paves the Way for Eco-friendly Aircraft Interiors	<i>ADVANCES IN MATERIALS AND MANUFACTURING PROCESSES FOR COMPOSITE APPLICATIONS, AMMPCOM, INCCOM-18</i>	Proceedings Paper	2025	83		407	430		10.1007 /978-981-96-8734-3_28
132.	Sutharsan, M; Murugan, KS; Narayanan, K; Natarajan, TS	Chitosan/Polyvinyl Alcohol/g-C3N4 Nanocomposite Film: An Efficient Visible Light-Responsive Photocatalyst and Antimicrobial Agent	<i>PROCESSES</i>	Article	2025	13	1			229	10.3390 /pr1301 0229
133.	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>	Article	2025	27	9	22795	22821		
134.	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>	Article	2025	35	10	4043	4061		

135.	Ramesh, RR; Abu Javid, M; Pounsamy, M; Vijayarangan, K; Lingamurthy, S; Rathinam, A	Valorization of agitated thin film dryer (ATFD)-mixed-salt from textile wastewater for its application in leather manufacturing - a sustainable approach	<i>ENVIRONMENTAL TECHNOLOGY</i>	Article	2025	46	3	401	413		
136.	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>	Article	2025	15	2	3083	3097		
137.	Hemalatha, T; Aarthy, M; Sundarapandiyan, A; Ayyadurai, N	Bioengineered Silk Fibroin Hydrogel Reinforced with Collagen-Like Protein Chimeras for Improved Wound Healing	<i>MACROMOLECULAR BIOSCIENCE</i>	Article	2025	25	2				
138.	Khambhaty, Y; Venugopal, S	Embracing bacterial pigments for eco-friendly leather coloring	<i>CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY</i>	Article	2025	27	8	3763	3774		
139.	Pandurangan, S; Easwaramoorthi, S; Ayyadurai, N	Engineering proteins with catechol chemistry for biotechnological applications	<i>CRITICAL REVIEWS IN BIOTECHNOLOGY</i>	Review	2025	45	3	606	624		
140.	Bansal, D; Nataraj, G; Elanchezhian, C; Sivaganesan, P; Das, MK; Chaudhuri, S	A Practical and Metal-Free Approach Towards Synthesis of Spiro-Benzazepinoindole Derivatives via Pentafluorophenol Catalyzed Pictet-Spengler Reaction	<i>CHEMISTRY-AN ASIAN JOURNAL</i>	Article	2025	20	4			e202401437	
141.	Kalaiselvi, V; Praveena, KD; Ayyadurai, N; Madhan, B; Kamini, NR; Ganesan, P	Keratin-derived small peptides support the growth of endothelial and fibroblast cells and activate angiogenic signaling	<i>BIOCHEMICAL ENGINEERING JOURNAL</i>	Article	2025	215				109595	
142.	Reddy, MK; Reddy, YSK; Lobo, NP; Ramanathan, KV; Narasimhaswamy, T	¹³ C NMR studies and orientational order of rod-like mesogens with strongly polar terminal cyano group	<i>LIQUID CRYSTALS</i>	Article	2025	52	01-Feb	140	156	2417911	
143.	Kartik, R; Shelly, K; Lobo, NP	Facile preparation of solid gelatin foams by a water-lean batch foaming process	<i>INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES</i>	Article	2025	287				138360	

144.	Vikash, VL; Kamini, NR; Ponesakki, G; Anandasadagopan, SK	Microbial disintegration of wool: An effective and sustainable approach for keratin extraction	<i>INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES</i>	Article	2025	290					138806	
145.	Jana, S; Nithyanandam, M; Balaji, R; Samanta, D; Jaisankar, SN	Polyurethane nanocomposites from 4-bromo-1H-pyrazole-blocked-diisocyanates	<i>JOURNAL OF APPLIED POLYMER SCIENCE</i>	Article	2025	142	2				e56353	
146.	Mala, R; Divya, D; Nandhagopal, M; Thennarasu, S	Restricted Intramolecular Rotation: A Dual Fluorescence Response to Hg ²⁺ Quenching and Ag ⁺ Enhancement in Live <i>Rhizoctonia Solani</i> Cells	<i>JOURNAL OF FLUORESCENCE</i>	Article	2025	35	7	6055	6067			
147.	Karthikraja, E; Chowdhury, C; Nulakani, NVR; Ramanujam, K; Vaidyanathan, VG; Subramanian, V	Transition Metal Anchored Novel Holey Boron Nitride Analogues as Single-Atom Catalysts for the Hydrogen Evolution Reaction	<i>CHEMISTRY-AN ASIAN JOURNAL</i>	Article	2025	20	3				e202401256	
148.	Roshini, N; Murugan, KP; Sekar, K; Natarajan, TS	Bismuth oxyhalides-chrome tanned leather shaving waste activated carbon nanocomposites: Evaluating the influence of halides and chromium oxide-embedded activated carbon on catalytic activity	<i>JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING</i>	Article	2025	13	1				115089	
149.	Janakipriya, S; Divya, D; Mala, R; Nandhagopal, M; Thennarasu, S	Wavelength specific aggregation induced emission in aqueous media permits selective detection of Ag ⁺ and Hg ²⁺ ions	<i>SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY</i>	Article	2025	325					125085	
150.	Sreekumar, S; Kiran, MS	Combinatorial effect of Apigenin-resveratrol on white adipocyte plasticity and trans-differentiation for activating lipid metabolism	<i>BIOFACTORS</i>	Article	2025	51	1				e2111	
151.	Vikash, VL; Kumar, DP; Sujiritha, PB; Ponesakki, G; Anandasadagopan, SK; Kamini, NR	Bioconversion of snakeskin shed into bioactive hydrolysate possessing antioxidant and cell proliferative potential	<i>PROCESS BIOCHEMISTRY</i>	Article	2025	149		10	21			

152.	Ramamoorthy, T; Soloman, AM; Annamalai, D; Gopinath, A; Skylab, S; Madhan, B	Optimization and characterization of electrospun bilayered PVA/collagen nanofibers loaded with quercetin for tissue engineering applications	<i>JOURNAL OF BIOACTIVE COMPATIBLE POLYMERS</i>	Article	2025	40	1	31	44		
153.	Sharma, P; Sahu, BK; Swami, K; Chandel, M; Kumar, P; Palanisamy, T; Shanmugam, V	E-seed skin: a carbohydrate-protein hybrid nanostructure for delayed germination and accelerated growth	<i>JOURNAL OF MATERIALS CHEMISTRY B</i>	Article	2025	13	12	3895	3905		
154.	Mishra, B; Alam, A; Chakraborty, A; Kumbhakar, B; Ghosh, S; Pachfule, P; Thomas, A	Covalent Organic Frameworks for Photocatalysis	<i>ADVANCED MATERIALS</i>	Review	2025	37	52				
155.	Sahu, B; Ramesh, A; Zameer, F	Impact of nanomaterials on leather: a nano-Saga from processing to application	<i>CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY</i>	Review	2025	27	10	5855	5882		
156.	Bansal, D; Sivaganesan, P; Elanchezhian, C; Nataraj, G; Das, MK; Chaudhuri, S	Water Mediated Chemoselective Synthesis of Novel Spiro Benzoxazinoindoline and Extended Synthesis of Spiro Benzoxazinoindene Derivatives*	<i>EUROPEAN JOURNAL OF ORGANIC CHEMISTRY</i>	Article	2025	28	16				
157.	Bansal, D; Sivaganesan, P; Elanchezhian, C; Nataraj, G; Das, MK; Chaudhuri, S	Pentafluorophenol-Catalyzed Metal-Free Fischer Indole Synthesis: A Novel Approach to Carbazole Derivatives and Desbromoarborescicine A	<i>CHEMISTRY-AN ASIAN JOURNAL</i>	Article	2025	20	12				
158.	Choudhary, P; Ramalingam, B; Bose, S; Das, SK	Antibacterial and safe chitosan-graphene hydrogel films: a promising nanotherapeutic for Staphylococcus aureus wound infections	<i>BIOMATERIALS SCIENCE</i>	Article	2025	13	3	639	658		
159.	Subramanian, R; Sundararaman, S; Baidullayeva, A; Venkateswaran, B; Deivasigamani, P; Arthy, M; Kumar, JA	Evaluation of SBRP and BRP at various process conditions for the removal of pollutants from dairy effluent: optimization and kinetic studies	<i>BIOMASS CONVERSION AND BIOREFINERY</i>	Article	2025	15	15	22055	22068		

160.	Das, MK; Shaw, K; Chaudhuri, S; Mondal, D; Bisai, A	Catalytic Asymmetric Approach to the Naturally Occurring Clavine Alkaloid (+)-Lysergine	SYNTHESIS-STUTTGART	Article	2025	57	2	407	416		
161.	Wang, YL; Zhang, YB; Cui, X; Liang, XL; Li, RZ; Wang, RX; Sharma, S; Liu, MZ; Gao, T; Zhou, ZM; Wang, XM; Dambatta, YS; Li, CH	High-speed grinding: from mechanism to machine tool	ADVANCES IN MANUFACTURING	Review	2025	13	1	104	154		
162.	Chethan, BS; Kannan, D; Kumar, AHU; Urs, MVD; Lingegowda, NS; Lokanath, NK; Naveen, S	Synthesis of novel chromenotethered imidazolone scaffold through one pot sequential multicomponent reaction mediated cyclization: A structural, computational and in silico investigation	JOURNAL OF MOLECULAR STRUCTURE	Article	2025	1320				1397 28	
163.	Annamalai, D; Ponnala, AK; Navabshan, I; Ahmad, F; Ibraheem, KM; Goyal, M; Bansal, M; Al Oueslati, MA; Venkatesan, K; Dineshkumar, R; Mohamed, JMM	Anticonvulsant activity of combined root extracts of Acorus Calamus and Bacopa Monnieri in rats	CHEMICAL PAPERS	Article	2025	79	2	1013	1028		

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