CSIR-CLRI PUBLICATIONS INDEXED IN SCI-E FOR THE YEAR 2023

Sl. No.	AUTHORS	TITLE	*SOURCE*	VL*	IS*	BP*	EP*	PY*	DOI*
1.	Sathish, M; Thanikaivelan, P; Sarkar, N; Aravindhan, R; Rao, JR	Effect of Acid Swelling and Its Impact on the Properties of Cow Industrial Glove Leathers	*Journal of the American Leather Chemists Association*	118	6	235	244	2023	
2.	Sahu, B; Janani, V; Rao, RR; Bhalla, A; Abu Javid, M	Impact of Flax Seed Protein and Beeswax Emulsion Blend on Leather Finishing- A Novel Eco-Benign Formulation	*Journal of the American Leather Chemists Association*	111	8	340	345	2023	
3.	Jeyakumar, GFS; Velswamy, P; Gunasekaran, D; Manimegalai, NP; Syamala, KM; Sivagnanam, UT	Enhancing the effectiveness of Alkaline Phosphatase and bone matrix proteins by tunable metal-organic composite for accelerated mineralization	*International Journal of Biological Macromolecules*	252				2023	10.1016/j.ijbiomac.2023.126524
4.	Mandal, S; Venkatramani, J	A review of plant-based natural dyes in leather application with a special focus on color fastness characteristics	*Environmental Science and Pollution Research*	30	17	48769	48777	2023	10.1007/s11356-023-26281-1
5.	Ramesh, RR; Arathanaikotti, D; Abu Javid, M; Vijayarangan, K; Rathinam, A	Studies on the Fabrication of Hydrophobic Coating Incorporating Bentonite Clay and its Effect on the Physical Properties of the Finished Leather	*Journal of the American Leather Chemists Association*	118	2	67	74	2023	
6.	Narayanan, P; Sethurajan, S; Vedhanayagam, M; Sreeram, KJ	A Rapid Quantification of Hydroxyproline in Leather using High-Performance Liquid Chromatography - Fluorescence Detection (HPLC-FLD) Method	*Journal of the American Leather Chemists Association*	118	5	183	192	2023	

7.	Kumar, ETD; Easwaramoorthi, S; Rao, JR	Gold-reduced graphene oxide intimated BiVO4-ZnO mixed oxide composite with leveraged charge carrier transport under solar radiation	*Optical Materials*	142				2023	10.1016/j.optmat.2023.114054
8.	Ramalingam, S; Sahu, B; Rao, JR	Hybrid nanoparticles emulsified vegetable oil as an environmentally friendly and sustainable leather fatliquoring agent	*Process Safety and Environmental Protection*	179		896	906	2023	10.1016/j.psep.2023.03.050
9.	Sivakumar, V; Muralidharan, C	Studies on calcium thioglycolate-based hair loosening in liming process for leather making	*International Journal of Environmental Science and Technology*	20	12	13729	13738	2023	10.1007/s13762-022-04701-y
10.	Mandal, S; Sowndarya, AAG; Maheshkumar, J; Banothu, R; Lobo, NP; Samanta, D; Mohan, R	Spectroscopic, thermal, and mechanical characterization of the polymeric fabrics used in extreme low-temperature protective garments	*Journal of the Indian Chemical Society*	100	1			2023	10.1016/j.jics.2022.100839
11.	Singh, F; Vijayan, V; Sreekumar, S; Kiran, MS	Hennotannic acid stabilised collagen bio-matrix for aberrant wound healing applications	*Materials Letters*	338				2023	10.1016/j.matlet.2023.134032
12.	Janeena, A; Jayaraman, N; Shanmugam, G; Easwaramoorthi, S; Ayyadurai, N	Electrochemical Response of Redox Amino Acid Encoded Fluorescence Protein for Hydroxychloroquine Sensing	*Applied Biochemistry and Biotechnology*	195	2	992	1013	2023	10.1007/s12010-022-04142-w
13.	Kaparekar, PS; Anandasadagopan, SK	In vitro and in vivo effect of novel GA-CSNPs loaded col-fibrin nanocomposite scaffold on diabetic wound healing	*Journal of Biomedical Materials Research Part B-Applied Biomaterials*	111	5	1074	1088	2023	10.1002/jbm.b.35215
14.	Veeraprakash, B; Shanavas, AKJ; Reddy, GSM; Lobo, NP; Ramanathan, KV; Narasimhaswamy, T	Molecular Conformations of Shape Anisometrically Variant Mesogens in Liquid Crystalline Phase Studied by 13C NMR Spectroscopy	*Chemphyschem*	24	23			2023	10.1002/cphc.202300353

15.	Venkatesan, N; Krishna, A; Fathima, NN	Leather solid waste derived activated carbon as a potential material for various applications: A review	*Journal of Analytical and Applied Pyrolysis*	176				2023	10.1016/j.jaap.2023.106249
16.	Mozhiarasi, V; Speier, CJ; Rose, PMB; Weichgrebe, D; Venkatachalam, SS	Influence of pre-treatments and anaerobic co-digestion of slaughterhouse waste with vegetable, fruit and flower market wastes for enhanced methane production	*Biomass Conversion and Biorefinery*	13	8	7079	7096	2023	10.1007/s13399-021-01709-1
17.	Ahina, KM; Kannan, K; Vijayan, V; Sreekumar, S; Lakra, R; Kiran, MS	Zero dimensional Graphene Quantum Dots self-assembled collagen 3D bio-matrices for soft tissue regeneration	*Materials Today Communications*	37				2023	10.1016/j.mtcomm.2023.107244
18.	Inbasekar, C; Rao, RR; Janeena, A; Fathima, NN	Insight into the synthesis of biocompatible polymer for collagen stabilization and leather process	*Reactive & Functional Polymers*	191				2023	10.1016/j.reactfunctpolym.2023.105655
19.	Murugan, KP; Sabarinathan, S; Prabhakaran, N; Swarnalatha, S	Valorization of hazardous chrome tanned leather buffing waste for the production of Cr2O3/carbon/TiO2 composite semiconductors with the removal of chlorophenol from its wastewater	*Chemical Engineering Journal*	468				2023	10.1016/j.cej.2023.143547
20.	Ramesh, RR; Murali, S; Abu Javid, M; Jonnalagadda, RR	Robust synthesis of water stable ciprofloxacin functionalized hybrid metal-organic antimicrobial pigments for coating applications	*Dyes and Pigments*	218				2023	10.1016/j.dyepig.2023.111499
21.	Felshia, SC; Gnanamani, A	Study on free and entangled binary metal nanocatalysts for removal of 2,4,6-trichlorophenol in aqueous phase: a comparative study	*Nanotechnology*	34	30			2023	10.1088/1361-6528/acd061

22.	Vignesh, V; Shanmugam, G	Removal and recovery of hazardous congo red from aqueous environment by selective natural amino acids in simple processes	*Process Biochemistry*	127		99	111	2023	10.1016/j.procbio.2023.02.009
23.	Sahu, B; Sharma, DD; Sekar, Y; Bhallad, A; Alla, JP	The Kinetic Study on Potassium Persulfate Accelerated Fish Oil Oxidation -An Agreeing Conclusion on Chamois Tanning	*Journal of the American Leather Chemists Association*	118	6	253	262	2023	
24.	Murali, RC; Kumaresan, A; Gunasekaran, B; Aaron, KP; Kaliappa, K	A feasibility study on use of banana fabrics in footwear production as upper material	*Indian Journal of Fibre & Textile Research*	48	4	373	379	2023	10.56042/ijftr.v48i4.7636
25.	Tarannum, A; Ballav, S; Rao, JR; Fathima, NN	Extraction of dermatan sulfate using ionic liquid-assisted enzymatic digestion: An efficient approach	*Carbohydrate Research*	531				2023	10.1016/j.carres.2023.108897
26.	Ramanathan, G; Jeyakumar, GFS; Sivagnanam, UT; Fardim, P	Biomimetic cellulose/collagen/silk fibroin as a highly interconnected 3D hybrid matrix for bone tissue engineering	*Process Biochemistry*	129		150	158	2023	10.1016/j.procbio.2023.03.018
27.	Fatrekar, AP; Sreeram, S; Vernekar, A	Coordinated Axial Ligand and d-p Conjugated Network Makes the Difference: Engineered 2D Mn-Based Antioxidase Mimic for Enhancing Stem Cell Protection	*Chemmedchem*	18	19			2023	10.1002/cmdc.202300325
28.	Gorli, VN; Srinivasan, R	Spiropyrrolizidine Analogues of Rosuvastatin from N4-(4-Fluorophenyl)-5-formyl-6-isopropylpyrimidin-2-yl)-N-methylmethanesulfonamide	*Chemistryselect*	8	32			2023	10.1002/slct.202301985

29.	Smile, SS; Shanmugam, P	N-S bond cleavage of tosyl hydrazones by dual reactive arynes: synthesis of diaryl sulfones, spiro[indazole-3,3′-indolin]-2′-one, and N phenyl sulfonohydrazides	*New Journal of Chemistry*	47	8	3856	3863	2023	10.1039/d3nj00050h
30.	Selvakumar, G; Lonchin, S	A bio-polymeric scaffold incorporated with p-Coumaric acid enhances diabetic wound healing by modulating MMP-9 and TGF-β3 expression	*Colloids and Surfaces B-Biointerfaces*	225				2023	10.1016/j.colsurfb.2023.113280
31.	Masilamani, D; Ariram, N; Madhan, B; Palanivel, S	An integrated process for effective utilization of collagenous protein from raw hide trimmings: Valorization of tannery solid wastes	*Journal of Cleaner Production*	415				2023	10.1016/j.jclepro.2023.137705
32.	Karuppusamy, M; Panneer, SVK; Jennifer, GA; Varathan, E; Ravva, MK; Subramanian, V	Structure-aromaticity-spectroscopy relationship in conjugated polymers	*Theoretical Chemistry Accounts*	142	5			2023	10.1007/s00214-023-02989-8
33.	Mohan, R; Sivakumar, V	Analysis and correlation of ultrasound cavitation energy in ultrasound tank with coloration of fibrous materials: leather dyeing	*Brazilian Journal of Chemical Engineering*	40	1	193	215	2023	10.1007/s43153-022-00241-7
34.	Ramalingam, S; Javid, MA; Ramesh, RR; Rathinam, A	Amalgamated silica-glutaraldehyde based cost effective leather tanning agent and its sustainable benefits: A metal free collagen stabilisation	*Materials Chemistry and Physics*	308				2023	10.1016/j.matchemphys.2023.128256
35.	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	*Environmental Science and Pollution Research*	30	54	115310	115321	2023	10.1007/s11356-023-30505-9

36.	Deepak, N; Inbasekar, C; Nishtef, NF	Bactericidal and Fungicidal Action of Copper Nanoparticles on Leather Surface	*Journal of the American Leather Chemists Association*	118	12	519	528	2023	
37.	Kanagaraj, J; Panda, RC; Prasanna, R; Tamilselvi, A	An efficient dehairing system supported by oxidative-enzymatic auxiliary towards sustainability	*Environmental Science and Pollution Research*	30	15	43817	43832	2023	10.1007/s11356-023-25380-3
38.	Rajendiran, N; Ganesan, S; Weichgrebe, D; Venkatachalam, SS	Optimization of pyrolysis process parameters for the production of biochar from banana peduncle fibrous waste and its characterization	*Clean Technologies and Environmental Policy*	25	10	3189	3201	2023	10.1007/s10098-023-02592-2
39.	Roshini, N; Lobob, NP; Kantha, S; Mandala, S	Microstructural, Thermal, and Adsorption Properties of Zeolitic Imidazolate Framework-8 Synthesized by a Facile Method	*Indian Journal of Engineering and Materials Sciences*	30	4	514	522	2023	10.56042/ijems.v30i4.4248
40.	Sheyara, RTB; Ramar, P; Satheeshkumar, M; Kumar, BVNP; Samanta, D	Transparent Superhydrophobic Coatings of Silica Nanoparticles Using Functionalized Polyurethanes	*Chemistry-An Asian Journal*	18	11			2023	10.1002/asia.202201166
41.	Arjunan, Y; Jayakumar, GC; Subramanian, A; Kanth, S	Development of Nano Bio Aldehyde Tanning Agent for Sustainable Leather Manufacture	*Journal of the American Leather Chemists Association*	118	4	162	168	2023	
42.	Mohan, VD; Devi, VKA; Haridoss, PR; Uthirappan, M; Thada, RR; Syamala, KM; Sivagnanam, UT	Resorbable Layered Double Hydroxides-Based Composite Implants Synergistically Accelerates Critical-Sized Defect Closure	*Advanced Therapeutics*	6	12			2023	10.1002/adtp.202300187
43.	Inbasekar, C; Fathima, NN	Insights into the Development of Imine-Bond-Stabilized Organic Tanning and a Heteropolymer for the Post-Tanning Process-A Metal-Free Sustainable Leather Process	*ACS Sustainable Chemistry & Engineering*	11	11	4450	4462	2023	10.1021/acssuschemeng.2c07529

44.	Natarajan, P; Karmegam, PM; Madasamy, J; Somasundaram, S; Ganesan, S	Effective treatment of domestic sewage to reuse in textile dyeing and catalytic treatment of generated dye wastewater	*International Journal of Environmental Science and Technology*	20	6	6209	6220	2023	10.1007/s13762-022-04275-9
45.	Raman, A; Neelambra, AU; Karunakaran, V; Easwaramoorthi, S	Solvent-Controlled Photoswitching of Azobenzene: An Excited State Shuttle	*Chemistry-An Asian Journal*	18	3			2023	10.1002/asia.202201112
46.	Dayanidhi, PD; Anithabanu, P; Vaidyanathan, VG	Studies on stabilization of collagen using Cr-doped polydopamine complex	*Biophysical Chemistry*	292				2023	10.1016/j.bpc.2022.106917
47.	Jayaprakash, K; Sivasamy, A	Polymeric graphitic carbon nitride layers decorated with erbium oxide and enhanced photocatalytic performance under visible light irradiation	*Environmental Science and Pollution Research*	30	18	52561	52575	2023	10.1007/s11356-023-26008-2
48.	Xavier, J; Patnaik, SK; Panda, RC	Economic optimization and predictive control for nonlinear systems using Lyapunov based nonlinear cost function design	*Chemical Engineering Science*	270				2023	10.1016/j.ces.2023.118530
49.	Reddy, MK; Shalini, PJ; Lobo, NP; Roy, A; Narasimhaswamy, T	Direct method to grasp molecular topology of mesogens through 13C1H dipolar couplings	*Physical Chemistry Chemical Physics*	25	20	14158	14169	2023	10.1039/d3cp00291h
50.	Boopathi, AA; Lobo, NP; Mishra, VD; Roy, A; Narasimhaswamy, T	Molecular organization and molecular order of two rod-like smectogens in mesophases	*Liquid Crystals*	50	13-14	2068	2088	2023	10.1080/02678292.2023.2227956
51.	Sankar, V; Murali, RC; Kumar, DS; Krishnaraj, K	A Validation of Material, Design, and Physical Properties of Weightlifting Shoes Based on 3D Models	*Indian Journal of Engineering and Materials Sciences*	30	4	559	566	2023	10.56042/ijems.v30i4.4021

52.	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	*Applied Biochemistry and Biotechnology*	195	11	6607	6632	2023	10.1007/s12010-023-04406-z
53.	Vijayan, V; Sreekumar, S; Ahina, KM; Lakra, R; Kiran, MS	Lanthanum Oxide Nanoparticles Reinforced Collagen (sic)-Carrageenan Hydroxyapatite Biocomposite as Angio-Osteogenic Biomaterial for In Vivo Osseointegration and Bone Repair	*Advanced Biology*	7	8			2023	10.1002/adbi.202300039
54.	Ramar, P; Suprajaa, P; Lobo, NP; Sampath, S; Samanta, D	Polyphenyltriazoles on Kombucha-Derived Bacterial Cellulose: Synthesis, Structural Evaluation and Hydrophobicity	*Chemistryselect*	8	23			2023	10.1002/slct.202301420
55.	Krishnamoorthy, R; Anaikutti, P	Iodine catalyzed synthesis of imidazo[1,2a pyrazine and imidazo[1,2a pyridine derivatives and their anticancer activity	*RSC Advances*	13	51	36439	36454	2023	10.1039/d3ra07842f
56.	Niklesh, C; Jayakumar, GC; Aaron, KP	Studies on the Correlation between Surface and Sewability Properties of Crust Leather	*Journal of the American Leather Chemists Association*	118	5	175	182	2023	
57.	Preethi, RK; Kannadasan, S; Shanmugam, P	Azomethine ylide [3+2]-cycloaddition of 3-alkylidene-7-aza-2-indolone: Synthesis of 3,3'-dispiropyrrolidine- and 3,3'-dispiropyrrolizidine bis 7-aza-2-oxindoles	*Tetrahedron Letters*	120				2023	10.1016/j.tetlet.2023.154448

58.	Padmashrija, AJC; Kannadasan, S; Shanmugam, P	Synthesis of 3-Spiro Cycloalkenes Fused 7-Aza-2-indalones from 3,3'-di- or N,3,3'-tri-allyl/homoallyl/pentenyl 7-Aza-2-indalones via Ring Closing Metathesis using Grubbs-II Catalyst	*Chemistryselect*	8	34			2023	10.1002/slct.202302522
59.	Nulakani, NVR; Ali, MA; Subramanian, V	A Novel Quasi-Planar Two-dimensional Carbon Sulfide with Negative Poisson's Ratio and Dirac Fermions	*Chemphyschem*	24	21			2023	10.1002/cphc.202300266
60.	Assanvo, EF; Nagaraj, S; Boa, D; Thanikaivelan, P	Hybrid collagen-cellulose-Fe3O4@TiO2 magnetic bio-sponges derived from animal skin waste and Kenaf fibers for wastewater remediation	*Scientific Reports*	13	1			2023	10.1038/s41598-023-40520-y
61.	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 Dynamics of the Anticancer Drug Doxorubicin Hydrochloride	*Journal of Physical Chemistry B*	127	47	10226	10235	2023	10.1021/acs.jpcb.3c06036
62.	Benish, PMR; Mozhiarasi, ; Nagabalaji, ; Weichgrebe, D; Srinivasan, S	Optimization of process parameters for enhanced methane production from banana peduncle by thermal pretreatment	*Biomass Conversion and Biorefinery*	13	16	15251	15265	2023	10.1007/s13399-022-02917-z
63.	Manimegalai, NP; Sivagnanam, UT	A quantitative tack on the nano construct for the modulation of inflammatory cytokines in burn scars	*Tissue Engineering Part A*	29	11-Dec	507	508	2023	

64.	Sathya, U; Keerthi	Development of membrane bioreactor integrated ozonation using polyvinylidene difluoride composites for textile dyeing wastewater treatment	*Journal of Materials Science-Materials In Electronics*	34	5			2023	10.1007/s10854-023-09823-8
65.	Mandal, S; Jayanthi, D; Muralidharan, C	Reduction in chemicals leaching in the leather industry effluent using hydrated layered double hydroxide as a fixative	*International Journal of Environmental Science and Technology*	20	2	1527	1538	2023	10.1007/s13762-022-04020-2
66.	Maharaja, P; Murali, A; Murugan, KP; Sekar, K; Swarnalatha, S; Srinivasan, S; Balakameshwari, KS; Sekaran, G	Synchronous COD removal and nitrogen recovery from high concentrated pharmaceutical wastewater by an integrated chemo-biocatalytic reactor systems	*Journal of Environmental Management*	329				2023	10.1016/j.jenvman.2022.117048
67.	Gayathri, V; Lobo, NP; Vikash, VL; Kamini, NR; Samanta, D	Functionalization of Bacterial Cellulose and Related Surfaces Using a Facile Coupling Reaction by Thermoresponsive Catalyst	*ACS Biomaterials Science & Engineering*	9	2	625	641	2023	10.1021/acsbiomaterials.2c01338
68.	Jayaprakash, K; Sivasamy, A	Superior photocatalytic performance of Dy2O3 graphitic carbon nitride nanohybrid for the oxidation Rhodamine B dye under visible light irradiation: A superoxide free radicals approach	*Colloids and Surfaces A-Physicochemical and Engineering Aspects*	676				2023	10.1016/j.colsurfa.2023.132260
69.	Suresh, S; Priya, N; Kunjitham, R; Sreeram, KJ	A Fast and Robust Analytical Method Based on QuEChERS Technique using UPLC- PDA for Quantification of Carcinogenic Arylamines in Consumer Goods inclusive of Leather	*Journal of the American Leather Chemists Association*	118	4	139	149	2023	

70.	Divya, D; Mala, R; Nandhagopal, M; Narayanasamy, M; Thennarasu, S	Coordination of Distal Carboxylate Anion Alters Metal Ion Specific Binding in Imidazo[1,2-a]pyridine Congeners	*Journal of Fluorescence*	33	4	1397	1412	2023	10.1007/s10895-022-03122-x
71.	Chatterjee, S; Das, A; Paul, D; Chakraborty, S; Choudhury, P	Utilization of fleshing waste of leather processing for the growth of zygomycetes: A new substrate for economical production of bio-polymer chitosan	*Journal of Environmental Management*	343				2023	10.1016/j.jenvman.2023.118141
72.	Km, S; Ravishankar, K; Lobo, NP; Baskar, R; Raghavachari, D	Solvent-less carboxymethylation-induced electrostatic crosslinking of chitosan	*International Journal of Biological Macromolecules*	253				2023	10.1016/j.ijbiomac.2023.126633
73.	Mandal, S; Banothu, R; Mohan, R; Sreeram, KJ	Root Cause Analysis of Color Migration in Footwear: A Case Study	*Journal of the American Leather Chemists Association*	118	4	150	155	2023	
74.	Fozia, S; Hassan, A; Reshi, SA; Singh, P; Bhat, GA; Dixit, M; Dar, MA	Boosting CO2 Activation and Reduction by Engineering the Electronic Structure of Graphitic Carbon Nitride through Transition Metal-Free Single-Atom Functionalization	*Journal of Physical Chemistry C*	127	25	11911	11920	2023	10.1021/acs.jpcc.3c00387
75.	Morajkar, R; Fatrekar, AP; Vernekar, A	A Single-Atom Nanozyme Cascade for Selective Tumor-Microenvironment-Responsive Nanocatalytic Therapy	*Chemmedchem*	18	6			2023	10.1002/cmdc.202200585
76.	Veeraprakash, B; Pratap, G; Lobo, NP; Ramanathan, KV; Narasimhaswamy, T	Influence of the Thiophene Ring on the Molecular Order of Structurally Simple π-Conjugated Smectogens: 13C NMR Study	*Chemphyschem*	24	12			2023	10.1002/cphc.202300074
77.	Thada, RR; Debata, M; Mandal, S; Gunasekaran, D; Mohan, VD;	In vitro and ex vivo characterization of nanonized amniotic membrane particles:	*Experimental Eye Research*	231				2023	10.1016/j.exer.2023.109471

	Chandrasekaran, N; Sivagnanam, UT	An untapped modality for ocular surface reconstruction							
78.	Rahaman, SN; Ayyadurai, N; Anandasadagopan, SK	Synergistic effect of vancomycin and gallic acid loaded MCM-41 mesoporous silica nanoparticles for septic arthritis management	*Journal of Drug Delivery Science and Technology*	82				2023	10.1016/j.jddst.2023.104353
79.	Prapanchan, VN; Sathya, U; Srihari, S; Kavitha, S; IndhiyaSelvan, VN; Subramani, T	Abundance of microplastics in urban lakes of Chennai, India and their possible health risks	*Urban Climate*	49				2023	10.1016/j.uclim.2023.101548
80.	Km, S; Ravishankar, K; Raghavachari, D	Facile chemical modification of poly(vinyl alcohol) to an organosoluble, flame-retardant copolymer using dichloroacetic acid	*Journal of Applied Polymer Science*	140	37			2023	10.1002/app.54393
81.	Rajendran, SK; Siddiq, AM; Alam, MS	The physicochemical and thermophysical properties of sodium dodecyl sulfate: The influence of p-toluene sulfonyl chloride and temperature	*Journal of the Indian Chemical Society*	100	6			2023	10.1016/j.jics.2023.101012
82.	Vijayan, V; Kiran, MS	Hybrid nanostructured gadolinium oxide-collagen-dextran polymeric hydrogel for corneal repair and regeneration	*International Journal of Biological Macromolecules*	224		1423	1438	2023	10.1016/j.ijbiomac.2022.10.229
83.	Smile, SS; Athira, M; Harichandran, G; Shanmugam, P	Synthesis of Blue Emissive Quaternary 9,9-Disubstituted N-Methyl-7-azaindole-Appended (Phenylethynyl)-fluorene Derivatives	*ACS Omega*	8	19	17043	17052	2023	10.1021/acsomega.3c01255

84.	Samyuktha, AD; Ethiraj, KR; Shanmugam, P	Unusual participation of O-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[b,d] furan-1,7-diols	*New Journal of Chemistry*	47	45	20818	20830	2023	10.1039/d3nj03766e
85.	Muralidharan, V; Gochhayat, S; Palanivel, S; Madhan, B	Influence of preparation techniques of cellulose II nanocrystals as reinforcement for tannery solid waste-based gelatin composite films	*Environmental Science and Pollution Research*	30	6	14284	14303	2023	10.1007/s11356-022-23058-w
86.	Pravina, R; Uthayakumar, H; Sivasamy, A	Hybrid approach based on response surface methodology and artificial neural networks coupled with genetic algorithm (RSM-GA-ANN) for the Prediction and optimization for the Photodegradation of dye using nano ZnO anchored glass fiber under solar light irradiation	*Journal of the Taiwan Institute of Chemical Engineers*	153				2023	10.1016/j.jtice.2023.105248
87.	Usharani, N; Kanth, SV; Saravanan, N	Current nanotechnological strategies using lipids, carbohydrates, proteins and metal conjugates-based carrier systems for diagnosis and treatment of tuberculosis-A review	*International Journal of Biological Macromolecules*	227		262	272	2023	10.1016/j.ijbiomac.2022.12.087
88.	Sudhahar, S; Umamaheswari, G; Alla, JP; Jonnalagadda, RR; Lakshmi, S; Gupta, S	Acrylic Finished Leather Upgraded with Thermoplastic Polyurethane Filament using 3D Printing - A New Generation Hybrid Leather of Synthetic and Natural Polymer	*Journal of Polymer Materials*	40	01-Feb	33	45	2023	10.32381/JPM.2023.40.1-2.3

89.	Veeraprakash, B; Reddy, MK; Das, BB; Lobo, NP; Ramanathan, KV; Narasimhaswamy, T	Effortless Extraction of Structural and Orientational Information from 13C-1H Dipolar Couplings for Thiophene Mesogens	*Journal of Physical Chemistry B*	127	50	10912	10922	2023	10.1021/acs.jpcb.3c06176
90.	Stephen, K; Gayathri, V; Lobo, NP; Kumar, BVNP; Jaisankar, SN; Samanta, D	Improving Hydrophobicity of Collagen with Silica Nanoparticles: Probing a Noncovalent Approach	*Langmuir*	39	31	10828	10842	2023	10.1021/acs.langmuir.3c00842
91.	Khambhaty, Y; Bondada, S	Pharmacological evaluation and kinetics of in vitro drug release efficacy of biofabricated silver nanoparticles using medicinally important Justicia neesii Ramamoorthy	*Indian Journal of Experimental Biology*	61	3	185	195	2023	10.56042/ijeb.v61i03.71568
92.	Kailasam, S; Sundaramanickam, A; Tamilvanan, R; Kanth, SV	Macrophytic waste optimization by synthesis of silver nanoparticles and exploring their agro-fungicidal activity	*Inorganic and Nano-Metal Chemistry*	53	3	257	266	2023	10.1080/24701556.2022.2034013
93.	Shanmugam, M; Agamendran, N; Sekar, K; Natarajan, TS	Metal-organic frameworks (MOFs) for energy production and gaseous fuel and electrochemical energy storage applications	*Physical Chemistry Chemical Physics*	25	44	30116	30144	2023	10.1039/d3cp04297a
94.	Preethy, KR; Ganesan, P; Chamundeeswari, M	Multimodality: phantom imaging for superparamagnetic graphene composites using green technology for theranostic nanosystems	*Applied Physics A-Materials Science & Processing*	129	1			2023	10.1007/s00339-022-06327-w
95.	Mary, SA; Ariram, N; Gopinath, A; Chinnaiyan, SK; Raja, IS; Sahu, B; Dev, VRG; Han, DW; Madhan, B	Investigation on Centrifugally Spun Fibrous PCL/3-Methyl Mannoside Mats for Wound Healing Application	*Polymers*	15	5			2023	10.3390/polym15051293

96.	Augustine, G; Sisila, V; Indhu, M; Gupta, D; Tandel, D; Harshan, KH; Shanmugam, G; Padmapriya, P; Sivasubramanian, S; Kaveri, K; Ramudu, KN; Ayyadurai, N	Redirecting the JAK-STAT signal blocks the SARS-CoV-2 replication	*Journal of Medical Virology*	95	7			2023	10.1002/jmv.28965
97.	Janeena, A; Nagabalaji, V; Suresh, P; Ramudu, KN; Srinivasan, SV; Shanmugam, G; Ayyadurai, N	Engineering microbial cells with metal chelating hydroxylated unnatural amino acids for removable of synthetic pollutants from water	*Chemosphere*	311				2023	10.1016/j.chemosphere.2022.136756
98.	Gayathri, V; Stephen, K; Prem, S; Ayyadurai, N; Samanta, D	Synthesis and Catalytic Studies of Thermoresponsive Copper (I) Complex towards Click Reactions	*European Journal of Organic Chemistry*	26	14			2023	10.1002/ejoc.202201182
99.	Natarajan, P; Chandrababu, P; Karmegam, PM; Madasamy, J; Somasundaram, S	Tungsten-based activated carbon matrix for the catalytic oxidation of model volatile organic compounds (VOCs) and pharmaceutical VOCs from wastewater	*Carbon Letters*	33	4	1115	1132	2023	10.1007/s42823-023-00506-2
100.	Mukherjee, S; Shanmugam, G	A Novel Surfactant with Short Hydrophobic Head and Long Hydrophilic Tail Generates Vesicles with Unique Structural Feature	*Small*	19	19			2023	10.1002/smll.202206906
101.	Unnikrishnan, AC; Thennarasu, AS; Saveri, P; Pandurangan, S; Deshpande, AP; Ayyadurai, N; Shanmugam, G	π-System Functionalization Transforms Amyloidogenic Peptide Fragment of Human Islet Amyloid Polypeptide into a Super Hydrogelator	*Chemistry-An Asian Journal*	18	4			2023	10.1002/asia.202201235
102.	Gopal, SS; Sukhdeo, SV; Vallikannan, B; Ponesakki, G	Lutein ameliorates high-fat diet-induced obesity, fatty liver, and glucose intolerance in C57BL/6J mice	*Phytotherapy Research*	37	1	329	341	2023	10.1002/ptr.7615

103.	Karmegam, PM; Natarajan, P; Somasundaram, S	Effect of activating agents on the photocatalytic activity of chromium oxide based porous carbon photocatalysts derived from chrome-tanned leather buffing dust waste for the degradation of 2-chlorophenol	*Chemical Engineering Journal*	451				2023	10.1016/j.cej.2022.138553
104.	Reddy, RR; Saha, D; Pan, A; Aswal, VK; Mati, SS; Moulik, SP; Kumar, BVNP	pH-Induced Biophysical Perspectives of Binding of Surface-Active Ionic Liquid [BMIM][OSU] with HSA and Dynamics of the Formed Complex	*Langmuir*	39	10	3729	3741	2023	10.1021/acs.langmuir.2c03472
105.	Devarajan, K; Sivakalai, M; Basu, SM; Biswas, C; Chauhan, M; Hasan, U; Panneerselvam, Y; Narayanan, UM; Raavi, SSK; Giri, J; Panda, TK	Design and synthesis of photostable triphenylamine based neutral AIE nano luminogens: specific and long-term tracking of mitochondria in cells	*Biomaterials Science*	11	11	3938	3951	2023	10.1039/d3bm00043e
106.	Sagayaraj, PJJ; Augustin, A; Shanmugam, M; Honnappa, B; Natarajan, TS; Wilson, K; Lee, AF; Sekar, K	Graphene Quantum Dots for Photocatalytic CO2 Reduction	*Energy Technology*	11	11			2023	10.1002/ente.202300563
107.	Li, CH; Zhang, YB; Sharma, S	Enhanced Heat Transfer Technology Based on Emission Reduction and Carbon Reduction in Cutting and Grinding	*Chinese Journal of Mechanical Engineering*	36	1			2023	10.1186/s10033-023-00947-w
108.	Mozhiarasi, V; Natarajan, TS; Dhamodharan, K	A high-value biohythane production: Feedstocks, reactor configurations, pathways, challenges, technoeconomics and applications	*Environmental Research*	219				2023	10.1016/j.envres.2022.115094

109.	Pounsamy, M; Karmegam, PM; Ganesan, S	Combined application of microbes immobilized carbon reactor and the reactive struvite system for the management of tannery deliming wastewater	*Environmental Science and Pollution Research*	30	16	47699	47711	2023	10.1007/s11356-023-25702-5
110.	Jithendra, P; Mohamed, JMM; Annamalai, D; Al-Serwi, RH; Ibrahim, AM; El-Sherbiny, M; Rajam, AM; Eldesoqui, M; Mansour, N	Biopolymer collagen-chitosan scaffold containing Aloe vera for chondrogenic efficacy on cartilage tissue engineering	*International Journal of Biological Macromolecules*	248				2023	10.1016/j.ijbiomac.2023.125948
111.	Ahmad, A; Priyadarshini, M; Das, I; Ghangrekar, MM; Surampalli, RY	Surfactant aided electrocoagulation/flotation using punched electrodes for the remediation of salicylic acid from wastewater	*Journal of Environmental Chemical Engineering*	11	1			2023	10.1016/j.jece.2022.109049
112.	Thangarasu, S; Siva, V; Kannan, S; Bahadur, SA; Athimoolam, S	Polymorphism in Chloride Salt of m-Nitroaniline: Structural, Spectroscopic, Thermal, Molecular Docking, Biological, and Quantum Chemical Computational Investigation	*Polycyclic Aromatic Compounds*	43	8	7164	7181	2023	10.1080/10406638.2022.2130374
113.	Vijayalekha, A; Anandasadagopan, SK; Pandurangan, AK	An Overview of Collagen-Based Composite Scaffold for Bone Tissue Engineering	*Applied Biochemistry and Biotechnology*	195	7	4617	4636	2023	10.1007/s12010-023-04318-y
114.	Sundaramoorthy, S; Singh, N; Taube, CR; Katiyar, R; Muralidharan, V; Palanivel, S	Electro-oxidation of tannery wastewater to achieve zero discharge - a step towards sustainability	*Environmental Technology*	44	20	2995	3003	2023	10.1080/09593330.2022.2049887
115.	Sahu, B; Jayakumar, GC; Anandasadagopan, SK	Studies On the Kinetics of Oil Oxidation Using Benzoyl Peroxide and Its Synergistic Effect in Fish Oil Tanning	*Journal of the American Leather Chemists Association*	118	4	156	161	2023	

116.	Jothieswari, M; Prabhakaran, N; Krithika, A; Swarnalatha, S	Reuse of Treated Domestic Sewage for Irrigation Purposes Using the Algal-based Treatment System	*Water Air and Soil Pollution*	234	7			2023	10.1007/s11270-023-06497-0
117.	Choudhary, P; Ramalingam, B; Das, SK	Rational design of antimicrobial peptide conjugated graphene-silver nanoparticle loaded chitosan wound dressing	*International Journal of Biological Macromolecules*	246				2023	10.1016/j.ijbiomac.2023.125347
118.	Jawahar, M; Anbarasi, LJ; Geetha, S	Vision based leather defect detection: a survey	*Multimedia Tools and Applications*	82	1	989	1015	2023	10.1007/s11042-022-13308-x
119.	Nagabalaji, V; Maharaja, P; Nishanthi, R; Sathish, G; Suthanthararajan, R; Srinivasan, SV	Effect of co-culturing bacteria and microalgae and influence of inoculum ratio during the biological treatment of tannery wastewater	*Journal of Environmental Management*	341				2023	10.1016/j.jenvman.2023.118008
120.	Naganna, CM; Prasad, KY; Mahendra, VP; Ganesan, P; Kumar, R	Vanillic acid potentiates insulin secretion and prevents pancreatic β-cells cytotoxicity under H2O2-induced oxidative stress	*Molecular Biology Reports*	50	2	1311	1320	2023	10.1007/s11033-022-08046-0
121.	Kumari, P; Vijayan, V; Sreekumar, S; Lakra, R; Sivagnanam, UT; Kiran, MS	Biological and physicochemical characterization of flax seed mucilage collagen bio-composite for potential use as tissue regenerative scaffold	*Materials Today Communications*	34				2023	10.1016/j.mtcomm.2023.105426
122.	Siva, V; Murugan, A; Shameem, A; Thangarasu, S; Kannan, S; Bahadur, SA	In situ encapsulation of V2O5@ZIF-8 nanocomposites as electrode materials for high-performance supercapacitors with long term cycling stability	*Journal of Materials Chemistry C*	11	8	3070	3085	2023	10.1039/d2tc03996f
123.	Li, LY; Zhang, YB; Cui, X; Said, Z; Sharma, S; Liu, MZ; Gao, T; Zhou, ZM; Wang, XM; Li, CH	Mechanical behavior and modeling of grinding force: A comparative analysis	*Journal of Manufacturing Processes*	102		921	954	2023	10.1016/j.jmapro.2023.07.074

124.	Sekhar, SC; Chandrasekhar, SS; Shrisha; Srinivasan, SV; Sridhar, S	Comprehensive treatment of aroma chemicals industrial effluent with substantial COD content by a novel PVP/polyamide composite hydrophilized RO membrane	*Chemical Engineering Journal*	468				2023	10.1016/j.cej.2023.143658
125.	Maity, N; Sharma, MK; Ghosh, S; Huss-Hansen, MK; Roy, A; Narayanan, R; Knaapila, M; Matsuda, W; Seki, S; Patil, S	Supramolecular Self-Assembly of Diketopyrrolopyrrole with Unprecedented Photoconductivity	*ACS Applied Electronic Materials*	5	9	5093	5102	2023	10.1021/acsaelm.3c00845
126.	Mozhiarasi, V; Natarajan, TS; Karthik, V; Anburajan, P	Potential of biofuel production from leather solid wastes: Indian scenario	*Environmental Science and Pollution Research*	30	60	125214	125237	2023	10.1007/s11356-023-28617-3
127.	Unnikrishnan, AC; Balamurugan, K; Shanmugam, G	Structural Insights into the Amyloid Fibril Polymorphism Using an Isotope-Edited Vibrational Circular Dichroism Study at the Amino Acid Residue Level	*Journal of Physical Chemistry B*	127	36	7674	7684	2023	10.1021/acs.jpcb.3c03437
128.	Sun, JA; Li, CH; Zhou, ZM; Liu, B; Zhang, YB; Yang, M; Gao, T; Liu, MZ; Cui, X; Li, BK; Li, RZ; Dambatta, YS; Sharma, S	Material Removal Mechanism and Force Modeling in Ultrasonic Vibration-Assisted Micro-Grinding Biological Bone	*Chinese Journal of Mechanical Engineering*	36	1			2023	10.1186/s10033-023-00957-8
129.	Cui, X; Li, CH; Yang, M; Liu, MZ; Gao, T; Wang, XM; Said, Z; Sharma, S; Zhang, YB	Enhanced grindability and mechanism in the magnetic traction nanolubricant grinding of Ti-6Al-4 V	*Tribology International*	186				2023	10.1016/j.triboint.2023.108603
130.	Nandan, A; Sharma, V; Banerjee, P; Sadasivam, K; Venkatesan, S; Prasher, B	Deciphering the mechanism of Tinospora cordifoliaextract on Th17 cells through in-depth transcriptomic profiling and in silicoanalysis	*Frontiers In Pharmacology*	13				2023	10.3389/fphar.2022.1056677

131.	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/TiO2/PVDF photocatalytic membranes	*Materials Research Bulletin*	167				2023	10.1016/j.materresbull.2023.112421
132.	Sharma, S; Sudhakara, P; Singh, J; Sanjay, MR; Siengchin, S	Fabrication of Novel Polymer Composites from Leather Waste Fibers and Recycled Poly(Ethylene-Vinyl-Acetate) for Value-Added Products	*Sustainability*	15	5			2023	10.3390/su15054333
133.	Selvaraj, S; Inbasekar, C; Pandurangan, S; Nishter, NF	Collagen-coated silk fibroin nanofibers with antioxidants for enhanced wound healing	*Journal of Biomaterials Science-Polymer Edition*	34	1	35	52	2023	10.1080/09205063.2022.2106707
134.	Singaraj, SP; Murali, RC; Kumaresan, A; Gunasekaran, B	Characteristic Analysis of Sisal Fabric and Cow Nubuck Leather for Developing Leather Lifestyle Accessories	*Journal of Natural Fibers*	20	2			2023	10.1080/15440478.2023.2218120
135.	Sisila, V; Indhu, M; Radhakrishnan, J; Ayyadurai, N	Building biomaterials through genetic code expansion	*Trends In Biotechnology*	41	2	165	183	2023	10.1016/j.tibtech.2022.07.003
136.	Gomathi, E; Maharaja, P; Rathore, HS; Boopathy, R; Panda, RC; Senthilvelan, T; Arthanareeswari, M	Treatment of textile dye consortium through photo-electro-fenton process using graphite-Ti electrode system and toxicity studies	*Carbon Letters*	33	7	2011	2025	2023	10.1007/s42823-023-00551-x
137.	Prapanchan, VN; Kumar, E; Subramani, T; Sathya, U; Li, PY	A Global Perspective on Microplastic Occurrence in Sediments and Water with a Special Focus on Sources, Analytical Techniques, Health Risks, and Remediation Technologies	*Water*	15	11			2023	10.3390/w15111987

138.	Ramalingam, B; Das, SK	Biofabricated graphene-magnetite nanobioaerogel with antibiofilm property: Response surface methodology based optimization for effective removal of heavy metal ions and killing of bacterial pathogens	*Chemical Engineering Journal*	475				2023	10.1016/j.cej.2023.145976
139.	Priyadarshini, M; Ahmad, A; Das, I; Ghangrekar, MM; Dutta, BK	Efficacious degradation of ethylene glycol by ultraviolet activated persulphate: reaction kinetics, transformation mechanisms, energy demand, and toxicity assessment	*Environmental Science and Pollution Research*	30	36	85071	85086	2023	10.1007/s11356-023-27596-9
140.	Kolathur, KK; Sharma, P; Kadam, NY; Shahi, N; Nishitha, A; Babu, K; Mishra, SK	The ubiquitin-like protein Hub1/UBL-5 functions in pre-mRNA splicing in Caenorhabditis elegans	*Febs Letters*	597	3	448	457	2023	10.1002/1873-3468.14555
141.	Senthilnathan, S; Jayaraman, S; Veeraraghavan, VP; Khan, JM; Ahmed, MZ; Ahmad, A; Gnanamani, A	HPTLC and GC-MS finger-printing of two potential multifunctional siddha tailams: Mathan and maha megarajanga tailam	*Saudi Journal of Biological Sciences*	30	7			2023	10.1016/j.sjbs.2023.103700
142.	Gupta, N; Kanungo, S; Behere, RP; Singh, P; Kanungo, S; Dixit, M; Chakraborty, C; Kuila, BK	Side-Chain Modification in Conjugated Polymer Frameworks for the Electrocatalytic Oxygen Evolution Reaction	*ACS Applied Materials & Interfaces*	15	24	29042	29051	2023	10.1021/acsami.3c02726
143.	Lathika, AS; Sivapirakasam, SP; Mohan, S; Surianarayanan, M	Thermokinetic and Ballistic Property Studies of Azide-Based Airbag Gas Generants with Dual Oxidizers (Sr(NO3)2 and KNO3	*Energy Technology*	11	10			2023	10.1002/ente.202300023
144.	Servarayan, KL; Krishnamoorthy, G; Sundaram, E; Karuppusamy, M;	Optical Immunosensor for the Detection of Listeria monocytogenes in Food Matrixes	*ACS Omega*	8	18	15979	15989	2023	10.1021/acsomega.2c07848

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145.	Kamble, GS; Natarajan, TS; Patil, SS; Thomas, M; Chougale, RK; Sanadi, PD; Siddharth, US; Ling, YC	BiVO₄ As a Sustainable and Emerging Photocatalyst: Synthesis Methodologies, Engineering Properties, and Its Volatile Organic Compounds Degradation Efficiency	*Nanomaterials*	13	9			2023	10.3390/nano13091528
146.	Ghosh, S; Küçükkeçeci, H; Paitandi, RP; Weigelt, V; Dippold, V; Seki, S; Thomas, A	Low band gap semiconducting covalent organic framework films with enhanced photocatalytic hydrogen evolution	*Journal of Materials Chemistry A*	12	1	247	255	2023	10.1039/d3ta04552h
147.	Varghese, A; Jain, S; Jawahar, M; Prince, AA	Auto-pore segmentation of digital microscopic leather images for species identification	*Engineering Applications of Artificial Intelligence*	126				2023	10.1016/j.engappai.2023.107049
148.	Mannacharaju, M; Ganesan, S; Lee, JK; Rajagopal, R; Chang, SW; Ravindran, B	Bacterial cell immobilized packed bed reactor for the elimination of dissolved organics from biologically treated post-tanning wastewater and its microbial community profile	*Chemosphere*	320				2023	10.1016/j.chemosphere.2023.138022
149.	Varghese, A; Jawahar, M; Prince, AA	Learning species-definite features from digital microscopic leather images	*Expert Systems With Applications*	224				2023	10.1016/j.eswa.2023.119971
150.	Esackraj, K; Nulakani, NVR; Choutipalli, VSK; Chowdhury, C; Murugan, P; Vaidyanathan, VG; Subramanian, V	Acetylene-Mediated Borophosphene Dirac Materials as Efficient Anode Materials for Lithium-Ion Batteries	*Chemphyschem*	24	11			2023	10.1002/cphc.202300035
151.	Lafo, CT; Essomba, JS; Mouthe, GAA; Ndi, JN; Bélibi, PDB	Comparative study of laterite clay and activated smectite in the adsorption of indigo carmine in aqueous solution	*International Journal of Environmental Science and Technology*	20	9	9619	9632	2023	10.1007/s13762-022-04640-8

152.	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 [CuII(L)2] [LH = tautomeric thiolate form of 2-ethoxybenzaldehyde-N (4)-dihexyl-3-thiosemicarbazone]	*Polyhedron*	244				2023	10.1016/j.poly.2023.116630
153.	Vasagam, SN; Sornam, M	Region Wise Surface Level Defect Detection and Ranking of Crust Leather Images Based on Image Processing Techniques	*Journal of the American Leather Chemists Association*	118	7	282	292	2023	
154.	Sharma, S; Sudhakara, P; Singh, J; Singh, S; Singh, G	Emerging progressive developments in the fibrous composites for acoustic applications	*Journal of Manufacturing Processes*	102		443	477	2023	10.1016/j.jmapro.2023.07.053
155.	Azar, KAHM; Ezhilarasan, D; Harini, KS; Karthick, M; Uthirappan, M	Coleus vettiveroides ethanolic root extract protects against thioacetamide-induced acute liver injury in rats	*Cell Biochemistry and Function*	41	7	876	888	2023	10.1002/cbf.3839
156.	Premalatha, A; Vijayalakshmi, K; Shanmugavel, M; Rajakumar, GS	Optimization of culture conditions for enhanced production of extracellular α-amylase using solid-state and submerged fermentation from Aspergillus tamarii MTCC5152	*Biotechnology and Applied Biochemistry*	70	2	835	845	2023	10.1002/bab.2403
157.	Senthilrajkapoor, P; Kalaiarasi, G; Indumathy, R; Dharani, S; Lynch, VM; Sathyaraj, G	Cobalt (II), Nickel (II) and Palladium (II) complexes appended terpyridine-based ligand: Synthesis, spectral characterization, anticancer activity and apoptosis investigation	*Applied Organometallic Chemistry*	37	9			2023	10.1002/aoc.7201
158.	Tan, KT; Ghosh, S; Wang, ZY; Wen, FX; Rodríguez-San-Miguel, D; Feng, J; Huang, N; Wang, W;	Covalent organic frameworks	*Nature Reviews Methods Primers*	3	1			2023	10.1038/s43586-022-00181-z

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159.	Ramalingam, B; Das, SK	Biomimetic strategy for fabrication of bifunctional graphene oxide-biomaterial aerogel as highly porous antifouling material for oil/water separation	*Chemical Engineering Journal*	475				2023	10.1016/j.cej.2023.145906
160.	Ramya, WMT; Siva, V; Murugan, A; Shameem, A; Kannan, S; Venkatachalam, K	A Novel Biodegradable Polymer-Based Hybrid Nanocomposites for Flexible Energy Storage Systems	*Journal of Polymers and The Environment*	31	4	1610	1627	2023	10.1007/s10924-022-02695-9
161.	Zhang, XT; Li, CH; Zhou, ZM; Liu, B; Zhang, YB; Yang, M; Gao, T; Liu, MZ; Zhang, NQ; Said, Z; Sharma, S; Ali, HM	Vegetable Oil-Based Nanolubricants in Machining: From Physicochemical Properties to Application	*Chinese Journal of Mechanical Engineering*	36	1			2023	10.1186/s10033-023-00895-5
162.	Usharani, N; Naha, A; Anbarasu, A; Ramaiah, S; Kanth, S; Natarajan, S	Green synthesis and characterization of water soluble nanocarnosine: A prospective drug delivery system	*Applied Materials Today*	32				2023	10.1016/j.apmt.2023.101812
163.	Borker, P; Gaokar, RD; Fatrekar, A	Tuning the optical properties of SnO2 by doping Cu2+for enhancing solar irradiated photodegradation of dye effluents and underlying mechanism	*Materials Science and Engineering B-Advanced Functional Solid-State Materials*	290				2023	10.1016/j.mseb.2023.116280
164.	Ruban, P; Reddy, SJLJ; Manickam, R; Rathinam, R; Ali, MS; Rajkumar, S; Sharma, S; Sudhakara, P; Eldin, EMT	Green synthesis, characterizations, and antibacterial activity of silver nanoparticles from Themeda quadrivalvis, in conjugation with macrolide antibiotics against respiratory pathogens	*Reviews On Advanced Materials Science*	62	1			2023	10.1515/rams-2022-0301

165.	Nair, RR; Kissling, PA; Marchanka, A; Lecinski, J; Turcios, AE; Shamsuyeva, M; Rajendiran, N; Ganesan, S; Srinivasan, SV; Papenbrock, J; Weichgrebe, D	Biochar synthesis from mineral and ash-rich waste biomass, part 2: characterization of biochar and co-pyrolysis mechanism for carbon sequestration	*Sustainable Environment Research*	33	1			2023	10.1186/s42834-023-00176-9
166.	Ramesh, S; Karuppasamy, K; Yadav, HM; Lee, YJ; Sivasamy, A; Kathalingam, A; Kim, HS; Kim, JH; Kim, HS	Fabrication of CuCo2S4 on composite interface materials made of polypyrrole and nitrogen-doped carbon nanotubes for use in supercapacitors	*Journal of Energy Storage*	67				2023	10.1016/j.est.2023.107518
167.	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	*Journal of Manufacturing Processes*	106		480	493	2023	10.1016/j.jmapro.2023.10.037
168.	Ramesh, S; Karthikeyan, C; Hajahameed, AS; Afsar, N; Sivasamy, A; Lee, YJ; Kim, JH; Kim, HS	Nanorod-like Structure of ZnO Nanoparticles and Zn8O8 Clusters Using 4-Dimethylamino Benzaldehyde Liquid to Study the Physicochemical and Antimicrobial Properties of Pathogenic Bacteria	*Nanomaterials*	13	1			2023	10.3390/nano13010166
169.	Raju, A; Samanta, D; Rajendrakumar, K	A Review of Recent Advances in the Development of Superhydrophobicity over Various Substrate Surfaces Using Polymers	*Chemistryselect*	8	17			2023	10.1002/slct.202204262
170.	Alagumuthu, TS; Samidurai, S; Khambhaty, Y; James, K	Evaluation of Antimicrobial Property of Bacteriocin Capped Silver Nanoparticles Prepared from Cell Free Supernatant of Lactobacillus brevis Isolated from Marine Fishes	*International Journal of Peptide Research and Therapeutics*	29	6			2023	10.1007/s10989-023-10569-4

171.	Velappan, B; Nagarajan, V; Murthy, VN; Arumugam, S; Chinnaraj, VK	Oleic acid-rich waste fleshing oil as a secondary carbon source for the synthesis of sophorolipids	*Environmental Progress & Sustainable Energy*	42	5			2023	10.1002/ep.14174
172.	Sindhuja, PP; Vijayan, V; Panda, RC	Control of time-delay systems through modified Smith predictor using sliding mode controller	*International Journal of Systems Science*	54	9	1961	1986	2023	10.1080/00207721.2023.2210151
173.	Panda, A; Sindhuja, P; Vijayan, V; Panda, RC	Operational control for the evolution of enthalpy in an SBR carrying out nitration of 4-chlorobenzotrifluoride and the thermal runway	*Chemical Engineering Research & Design*	197		774	799	2023	10.1016/j.cherd.2023.08.008
174.	Mandal, A; Dhineshkumar, E; Sastry, TP	The CCLW collagen biocomposite consisting Ag-Fe3O4 nanoparticles as a novel biomaterial with a view to facile green approach	*Clean Technologies and Environmental Policy*	25	10	3285	3302	2023	10.1007/s10098-023-02578-0
175.	Krishnamoorthy, R; Adhikari, P; Anaikutti, P	Design, synthesis, and characterization of non-hemolytic antimicrobial peptides related to human cathelicidin LL-37	*RSC Advances*	13	23	15594	15605	2023	10.1039/d3ra02473c
176.	Krishnamoorthy, R; Singh, M; Anaikutti, P; Paul, LE; Dhanasekaran, S; Sathiah, T	Design and synthesis of novel N-terminal peptides of integrin and aminopeptidase are new finding for anticancer activity	*Bioorganic Chemistry*	134				2023	10.1016/j.bioorg.2023.106434
177.	Mythily, M; Thyagarajan, T; Panda, RC; Sujitha, S	Volume Reduction of Industrial Effluent in Multiple Effect Evaporator through Model-Based Control Schemes	*Iranian Journal of Chemistry & Chemical Engineering-International English Edition*	42	2	565	576	2023	
178.	Sindhuja, PP; Panda, A; Velappan, V; Panda, RC	Disturbance-observer-based finite time sliding mode controller with unmatched uncertainties utilizing improved cubature Kalman filter	*Transactions of the Institute of Measurement and Control*	45	9	1795	1812	2023	10.1177/01423312221140507

179.	Sudhakar, M; Sasikumar, S; Natarajan, D; Ramakrishnan, R; Kiran, M	Opposing effect of chlorogenic acid on induction of beige adipocyte phenotype in 3t3-l1 adipocytes and angiogenic phenotype in endothelial cells	*Atherosclerosis*	379				2023	
180.	Gajula, P; Muhammad, FM; Reza, MS; Jaisankar, SN; Kim, KJ; Kim, H	Fabrication of a Silicon Elastomer-Based Self-Powered Flexible Triboelectric Sensor for Wearable Energy Harvesting and Biomedical Applications	*ACS Applied Electronic Materials*	5	3	1750	1760	2023	10.1021/acsaelm.2c01773

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