CSIR-CLRI PUBLICATIONS INDEXED IN SCI-E FOR THE YEAR 2022

Sl. No.	AUTHORS	TITLE	*SOURCE*	VL*	IS*	BP*	EP*	PY*	DOI*
1.	Ramya, V; Murugan, D; Lajapathirai, C; Meenatchisundaram, S; Arumugam, S	A composite adsorbent of superparamagnetic nanoparticles with sludge biomass derived activated carbon for the removal of chromium (VI)	*Journal of Cleaner Production*	366				2022	10.1016/j.jclepro.2022.132853
2.	Vedhanayagam, M; Kumar, AS; Nair, BU; Sreeram, KJ	Dendrimer-Functionalized Metal Oxide Nanoparticle-Mediated Self-Assembled Collagen Scaffold for Skin Regenerative Application: Function of Metal in Metal Oxides	*Applied Biochemistry and Biotechnology*	194	1	266	290	2022	10.1007/s12010-021-03764-w
3.	Madhu, V; Sivakalai, M; Janardhanan, SK; Madurai, SL	A new-fangled horizon in leather process to sidestep toxic chrome and formaldehyde using hyperbranched polymer	*Chemosphere*	304				2022	10.1016/j.chemosphere.2022.135355
4.	Velappan, B; Gnanasekaran, S; Victor, JS; Alagumuthu, T; Nagarajan, V; Chinnaraj, VK; Chellappa, M	Characterization and application of dried neem leaf powder as a bio-additive for salt less animal skin preservation for tanneries	*Environmental Science and Pollution Research*	29	3	3763	3772	2022	10.1007/s11356-021-15653-0
5.	Ramesh, RR; Jonnalagadda, RR	Fabrication of zirconium based coordination polymers for fluorine/silane free superhydrophobic coatings	*Chemical Engineering Journal*	431				2022	10.1016/j.cej.2021.134262
6.	Choutipalli, VSK; Esackraj, K; Subramanian, V	Nitrogen Fixation at the Edges of Boron Nitride Nanomaterials: Synergy of Doping	*Frontiers In Chemistry*	9				2022	10.3389/fchem.2021.799903

7.	Meganathan, I; Sundarapandian, A; Shanmugam, G; Ayyadurai, N	Three-dimensional tailor-made collagen-like proteins hydrogel for tissue engineering applications	*Biomaterials Advances*	139				2022	10.1016/j.bioadv.2022.212997
8.	Devi, MV; Poornima, V; Sivagnanam, UT	Wound healing in second-degree burns in rats treated with silver sulfadiazine: a systematic review and meta analysis	*Journal of Wound Care*	31	4	S31	S45	2022	10.12968/jowc.2022.31.Sup4.S31
9.	Sivakumar, V; Mohan, R	Measurement and mapping of cavitation energy in leather and Material Processing vessels using an ultrasonic horn	*Applied Physics A-Materials Science & Processing*	128	1			2022	10.1007/s00339-021-04977-w
10.	Mohan, R; Muthukumar, R; Ganesan, RS; Shrividhya, S; Sivakumar, V	Remediation of Spent Vegetable Tannins from Waste Tanning Liquor through Coagulation and Ultrasound Pre-Treatment: A Sustainable Approach	*Journal of the American Leather Chemists Association*	117	9	367	378	2022	
11.	Hemalatha, T; Aarthy, M; Pandurangan, S; Kamini, NR; Ayyadurai, N	A deep dive into the darning effects of biomaterials in infarct myocardium: current advances and future perspectives	*Heart Failure Reviews*	27	4	1443	1467	2022	10.1007/s10741-021-10144-3
12.	Saranya, K; Jayakumar, GC; Usharani, N; Sundaramanickam, A; Kanth, SV	Tannin-Capped Silver Nanoparticles: Mechanistic Insight on Biocidal Activities for Leather Processing	*Chemistryselect*	7	48			2022	10.1002/slct.202203787
13.	Mukherjee, M; Mandal, S; Gnanasundaram, S; Das, BN	Polyurethane-layered double hydroxide nanocomposite foam: in situ synthesis by reaction injection molding and characterization	*Polymer International*	71	9	1072	1081	2022	10.1002/pi.6365
14.	Athira, M; Smile, SS; Shanmugam, P	BF3OEt2 catalyzed synthesis of functionalized 9-fluorene-9-ylidene appended quinazolin-4-ones	*New Journal of Chemistry*	46	6	2952	2961	2022	10.1039/d1nj05379e

15.	Mala, R; Divya, D; Vijayan, P; Narayanasamy, M; thennarasu, S	Two Imidazo[1,2-a]pyridine Congeners Show Aggregation-Induced Emission (AIE): Exploring AIE Potential for Sensor and Imaging Applications	*Chemistryselect*	7	5			2022	10.1002/slct.202103408
16.	Gorli, VNR; Srinivasan, R	Synthesis of dihydro-2H-spiro [acenaphthylene-1,3′-pyrazole]: An approach toward apixaban moeity	*Synthetic Communications*	52	2	280	290	2022	10.1080/00397911.2021.2023574
17.	Fathima, NN; Tarannum, A; Rao, JR	Insights into protein-ionic liquid interaction: A comprehensive overview on theoretical and experimental approaches	*International Journal of Biological Macromolecules*	209		498	505	2022	10.1016/j.ijbiomac.2022.04.050
18.	Unnikrishnan, AC; Shanmugam, G	Isotope-edited vibrational circular dichroism study reveals a flexible N-terminal structure of islet amyloid peptide (NFGAIL) in amyloid fibril form: A site-specific local structural analysis	*Journal of Structural Biology*	214	4			2022	10.1016/j.jsb.2022.107910
19.	Mandal, S; Johri, S; Govind, M	Aluminium hydroxide impregnated sawdust adsorbent: An eco-friendly and low-cost strategy for defluoridation of water	*Indian Journal of Chemical Technology*	29	2	139	148	2022	
20.	Dayanidhi, PD; Vaidyanathan, VG	Understanding the role of ancillary ligands in the interaction of Ru(II) complexes with covalent arylamine-DNA adducts	*Inorganica Chimica Acta*	530				2022	10.1016/j.ica.2021.120681
21.	Sathish, M; Aravindhan, R; Rao, JR	Salt-free Chromium Tanning: Practical Approaches	*Journal of the American Leather Chemists Association*	117	1	3	9	2022	

22.	Jayaraman, N; Palani, Y; Jonnalagadda, RR; Shanmugam, E	Covalently dual functionalized graphene oxide-based multiplex electrochemical sensor for Hg(II) and Cr(VI) detection	*Sensors and Actuators B-Chemical*	367				2022	10.1016/j.snb.2022.132165
23.	Annadurai, A; Samanta, D; Alam, MS	Investigation of physicochemical, thermophysical and surface properties of fatliquors	*Journal of Molecular Liquids*	355				2022	10.1016/j.molliq.2022.118976
24.	Manimegalai, NP; Ramanathan, G; Gunasekaran, D; Jeyakumar, GFS; Sivagnanam, UT	Cardinal acuity on the extraction and characterization of soluble collagen from the underutilized abattoir junks for clinical demands	*Process Biochemistry*	122		29	37	2022	10.1016/j.procbio.2022.08.011
25.	Choutipalli, VSK; Venkataramanan, SSA; Subramanian, V	High throughput computational screening of tantalum based small metal clusters for nitrogen fixation	*Inorganica Chimica Acta*	530				2022	10.1016/j.ica.2021.120700
26.	Gayathri, V; Sheyara, RTB; Devassy, N; Samanta, D	Investigating the degradation of PET utilizing NHC-based catalysts and effective reuse of the degradation product as an additive with polyurethane adhesive material	*Journal of Applied Polymer Science*	139	27			2022	10.1002/app.52474
27.	Aaron, KP; Rose, ZS; Kaliappa, K	Study on the Amalgamation of Jute Fabric and Leather for Lifestyle Applications	*Journal of Natural Fibers*	19	15	11666	11678	2022	10.1080/15440478.2022.2036290
28.	Samidurai, S; Khambhaty, Y; Alagamuthu, TS	Bio-preservation of raw hides/skins: A review on greener substitute to conventional salt curing	*Environmental Science and Pollution Research*	29	43	64513	64535	2022	10.1007/s11356-022-22027-7
29.	Jayakumar, GC; Niklesh, C; Kandhan, SJ; Aaron, KP; Krishnaraj, K	Physico-Insight on Sewability Properties of Crust Leathers Using Melamine Syntan and Synthetic Fatliquor	*Journal of the American Leather Chemists Association*	117	10	407	411	2022	

30.	Sathish, M; Thaikaivelan, P; Rao, JR	Application of GSK?s Model in Leather Making: Quantification of theEnvironmental Efficiency of a Green Solvent Based Deliming Process	*ACS Sustainable Chemistry & Engineering*	10	15	4943	4953	2022	10.1021/acssuschemeng.1c08276
31.	Ariram, N; Pradeep, S; Sundaramoorthy, S; Madhan, B	Single pot low float chromium tanning: Cleaner pathway approach to environment friendly leather manufacturing	*Process Safety and Environmental Protection*	167		434	442	2022	10.1016/j.psep.2022.09.024
32.	Kanemoto, SO; Gouthaman, S; Venkatesh, M; Yona, AMC; Ndikontar, MK; Lakshmi, MS	thermal stability of phosphorus-based epoxy/clay composites and its effect on flame-retardation properties of leather	*Iranian Polymer Journal*	31	12	1583	1594	2022	10.1007/s13726-022-01100-5
33.	Rajendran, SK; Mondal, JH; Alam, MS	the Interaction of Sodium Dodecyl Sulfate with 4,5-Dihydroxy-1,3-Benzenedisulfonate Hydrotrope: Micellization, Surface Properties, and thermodynamics	*Russian Journal of Physical Chemistry A*	96	2	412	424	2022	10.1134/S0036024422020261
34.	Puhazhselvan, P; Pandi, A; Sujiritha, PB; Antony, GS; Jaisankar, SN; Ayyadurai, N; Saravanan, P; Kamini, NR	Recycling of tannery fleshing waste by a two step process for preparation of retanning agent	*Process Safety and Environmental Protection*	157				2022	10.1016/j.psep.2021.11.003
35.	Mozhiarasi, V	Overview of pretreatment technologies on vegetable, fruit and flower market wastes disintegration and bioenergy potential: Indian scenario	*Chemosphere*	288				2022	10.1016/j.chemosphere.2021.132604

36.	Rathore, HS; Sivagnanam, UT; Abraham, LS; Prakash, D; Panda, RC; Senthilvelan, T	Green synthesized silver nanoparticles-impregnated novel gum kondagogu-chitosan biosheet for tissue engineering and wound healing applications	*Polymer Bulletin*	79	9	7215	7227	2022	10.1007/s00289-021-03832-5
37.	Saranya, K; Sundaramanickam, A; Manupoori, S; Kanth, SV	Screening of multi-faceted phosphate-solubilising bacterium from seagrass meadow and their plant growth promotion under saline stress condition	*Microbiological Research*	261				2022	10.1016/j.micres.2022.127080
38.	Sharma, R; Venkatesan, N; Fathima, NN	Engineered leathers for extreme cold weather application	*Materials Letters*	329				2022	10.1016/j.matlet.2022.133166
39.	Morajkar, RV; Fatrekar, AP; Mohanty, A; Vernekar, AA	A Review on the Role of Transition Metals in Selenylation Reactions	*Current Organic Synthesis*	19	3	366	392	2022	10.2174/1570179418666210920150142
40.	Vijayan, V; Lakra, R; Korrapati, PS; Kiran, MS	Lanthanum oxide nanoparticle-collagen bio matrix induced endothelial cell activation for sustained angiogenic response for biomaterial integration	*Colloids and Surfaces B-Biointerfaces*	216				2022	10.1016/j.colsurfb.2022.112589
41.	Lakra, R; Kiran, MS; Korrapati, PS	Collagen scaffold reinforced with furfural for wound healing application	*Materials Letters*	315				2022	10.1016/j.matlet.2022.131956
42.	Mohan, R; Deevakar, L; Sivakumar, V	Towards holistic technology solution to chromite ore processing residue (COPR) challenge; global issue: review and analysis	*International Journal of Environmental Science and Technology*	19	1	665	676	2022	10.1007/s13762-020-03097-x
43.	Sujiritha, PB; Vikash, VL; Antony, GS; Ponesakki, G; Ayyadurai, N; Nakashima, K; Kamini, NR	Valorization of tannery solid wastes for sustainable enzyme induced carbonate precipitation process	*Chemosphere*	308				2022	10.1016/j.chemosphere.2022.136533

44.	Venkatachalam, M; Rathinam, A; Rao, JR; Krishnan, C	Bioconversion of animal hair waste using salt- and sulphide-tolerant Bacillus sp. KLP1 and depilation using keratinase	*International Journal of Environmental Science and Technology*	19	7	6389	6398	2022	10.1007/s13762-021-03437-5
45.	Banerjee, K; Radhakrishnan, J; Ayyadurai, N; Ganesan, P; Kamini, NR	Advances in neoteric modular tissue engineering strategies for regenerative dentistry	*Journal of Science-Advanced Materials and Devices*	7	4			2022	10.1016/j.jsamd.2022.100491
46.	Murali, A; Jaisankar, SN	Viscoelastic behavior of carbon nanotubes impregnated polyurethane: A detailed study of Structural, Mechanical, thermal and hydrophobic properties	*Materials Letters*	312				2022	10.1016/j.matlet.2022.131722
47.	Vijayan, AN; Solaimuthu, A; Murali, P; Gopi, J; Madhan, TY; Akshaya, PR; Korrapati, PS	Decorin mediated biomimetic PCL-gelatin nano-framework to impede scarring	*International Journal of Biological Macromolecules*	219		907	918	2022	10.1016/j.ijbiomac.2022.08.029
48.	George, K; Elavarasan, P; Ponnusamy, S; Sathananthan, K	Facile One-Pot Synthesis of Functionalized Quinoline-Fused Fluorescent Dihydro/Spiro-quinazolinone Derivatives	*ACS Omega*	7	24	20605	20618	2022	10.1021/acsomega.2c00674
49.	Selvakumar, G; Lonchin, S	Bioactive functional collagen-oxidized pullulan scaffold loaded with polydatin for treating chronic wounds	*Biomaterials Advances*	140				2022	10.1016/j.bioadv.2022.213078
50.	Sharma, S; Sudhakara, P; Petru, M; Singh, J; Rajkumar, S	Effect of nanoadditives on the novel leather fiber/recycled poly(ethylene-vinyl-acetate) polymer composites for multifunctional applications: Fabrication, characterizations, and multiobjective optimization using central composite design	*Nanotechnology Reviews*	11	1	2366	2432	2022	10.1515/ntrev-2022-0067

51.	Vasagam, SN; Sornam, M	Assessment of Intermittent Leather based on Image Score Pattern	*Indian Journal of Engineering and Materials Sciences*	29	5	605	614	2022	10.56042/ijems.v29i5.50542
52.	Prabhakaran, N; Murugan, KP; Jothieswari, M; Swarnalatha, S; Sekaran, G	Tannery wastewater treatment process to minimize residual organics and generation of primary chemical sludge	*International Journal of Environmental Science and Technology*	19	9	8857	8870	2022	10.1007/s13762-021-03634-2
53.	Mohan, V; Sivagnanam, UT	Resorbable Layered Double Hydroxides-Based Composite Implants Synergistically Acclerates Critical-sized Defect Closure Using Preclinical Rabbit Model	*Tissue Engineering Part A*	28		369	370	2022	
54.	Athira, M; Shanmugam, P	BF3OEt2 catalysed synthesis of diverse 9 fluorenlidene appended indole-1-oxides and spiro[fluorene-9,10'-indeno[1,2-b]indol]-5'-yl) ethanones from 9-(phenylethynyl)-fluoren-9-ol and nitrosobenzene	*Tetrahedron Letters*	112				2022	10.1016/j.tetlet.2022.154218
55.	Muralidharan, V; Janardhanam, S; Palanivel, S; Madhan, B	Sustainable fabrication of bio-derived hybrid films using biomolecules extracted from animal skin	*Process Biochemistry*	119		13	28	2022	10.1016/j.procbio.2022.04.012
56.	Venkatesan, N; Kesavan, T; Raja, M; Ramanujam, K; Fathima, NN	Efficient electrochemical performance of nitrogen-doped porous activated carbon for high energy symmetric pouch cell supercapacitors	*Journal of Energy Storage*	55				2022	10.1016/j.est.2022.105698
57.	Meenakshi, G; Sivasamy, A	Enhanced photocatalytic activities of CeO2@ZnO core-shell nanostar particles through delayed electron hole recombination process	*Colloids and Surfaces A-Physicochemical and Engineering Aspects*	645				2022	10.1016/j.colsurfa.2022.128920

58.	Sundar, J; Aaron, KP	A Novel Stabilization of Skin Protein Using Replenishable Tanning Agents - Mineral-free Fragrant Garment Leathers	*Journal of Natural Fibers*	19	15	10356	10366	2022	10.1080/15440478.2021.1993503
59.	Vijayan, AN; Indrakumar, J; Gomathinayagam, S; Gothandam, KM; Korrapati, PS	Bi-Functional Aspects of Peptide Decorated PLGA Nanocarriers for Enhanced Translocation Across the Blood-Brain Barrier through Macropinocytosis	*Macromolecular Research*	30	8	557	570	2022	10.1007/s13233-022-0061-5
60.	Dayanidhi, PD; Vaidyanathan, VG	Understanding the ancillary ligand effect on luminescent cyclometalated Ir(III) complex as a reporter for 2-acetylaminofluorene DNA(AAF-dG) adduct	*Journal of Biological Inorganic Chemistry*	27	1	189	199	2022	10.1007/s00775-021-01920-5
61.	Sisila, V; Janeena, A; Prem, S; Mohandass, P; Narayanan, J; Easwaramoorthi, S; Ganesh, S; Kamini, NR; Ayyadurai, N	Protein-based metal bio-cleaner for detoxification of wastewater	*Journal of Chemical Technology and Biotechnology*	97	9	2581	2591	2022	10.1002/jctb.7130
62.	Rajendran, SK; Mondal, JH; Alam, MS	Influence of an anionic hydrotrope on thermophysical properties of an anionic surfactant sodium dodecyl sulfate	*Chemical Physics Letters*	787				2022	10.1016/j.cplett.2021.139239
63.	Muralidharan, V; Palanivel, S; Balaraman, M	Turning problem into possibility: A comprehensive review on leather solid waste intra-valorization attempts for leather processing	*Journal of Cleaner Production*	367				2022	10.1016/j.jclepro.2022.133021
64.	Selvi, AT; Khambhaty, Y; Sugapriya, S; Jayakumar, GC	Vegetable wastes as a bio-additive for low-salt preservation of raw goat skin: An attempt to reduce salinity in leather manufacture	*Environmental Science and Pollution Research*	29	21	31374	31383	2022	10.1007/s11356-021-18001-4

65.	Mathivanan, S; Mohan, R; Panda, RC; Balachander, P	Studies on Compressive Loading-characteristics of PU Foam Materials Used in Footwear for Obese	*Journal of Polymer Materials*	39	03-Apr	195	204	2022	10.32381/JPM.2022.39.3-4.2
66.	Ramar, P; Samanta, D	Functionalization of Nitrocellulose Film by AB-Type Click Polymerization: Methods and Property Enhancements	*ACS Applied Polymer Materials*	4	12	8900	8912	2022	10.1021/acsapm.2c01305
67.	Pan, A; Kumar, BVNP; Mati, SS; Mal, A; Prameela, GKS; Aswal, VK; Moulik, SP	Condition dependent self-aggregation behavior of aerosol-OT in mixed water-alcohol media: Physicochemical investigation	*Journal of Molecular Liquids*	354				2022	10.1016/j.molliq.2022.118893
68.	Mandal, S; Suresh, S; Priya, N; Banothu, R; Mohan, R; Sreeram, KJ	Phthalate migration and its effects on poly(vinyl chloride)-based footwear: pathways, influence of environmental conditions, and the possibility of human exposure	*Environmental Science-Processes & Impacts*	24	10	1844	1854	2022	10.1039/d2em00059h
69.	Ariram, N; Gopinath, A; Madhan, B; Rao, JR	Supercritical carbon dioxide fiber opening: a new paradigm for cleaner leather manufacture	*Clean Technologies and Environmental Policy*	24	6	1781	1791	2022	10.1007/s10098-022-02286-1
70.	Bhavani, R; Sivasamy, A	Sonocatalytic degradation of direct blue dye using semiconductor nanocatalyst	*Indian Journal of Chemical Technology*	29	6	599	615	2022	10.56042/ijct.v29i6.67432
71.	Ramesh, RR; Ponnuvel, M; Ramalingam, S; Rathinam, A	Compact glyoxal tanning system: a chrome-free sustainable and green approach towards tanning-cum-upgradation of low-grade raw materials in leather processing	*Environmental Science and Pollution Research*	29	23	35382	35395	2022	10.1007/s11356-022-18660-x
72.	Venkatramani, J; Sahu, B	A Mini Review Role of Natural Binders in Leather Finishing- A Comparative Approach	*Journal of the American Leather Chemists Association*	117	6	223	231	2022	

73.	Inbasekar, C; Akshaya, A; Fathima, NN	Facile Synthesis of Copper-5-Aminoisophthalic Acid Metal Organic Framework as a Potential Drug Carrier for Ibuprofen	*Chemistryselect*	7	37			2022	10.1002/slct.202202253
74.	Shapterhasmi, T; Palani, N; Velusamy, M; Bhuvanesh, NSP; Sundaravel, K; Easwaramoorthi, S	Iron(III) complexes of pyrrolidine and piperidine appended tridentate 3N donor ligands as models for catechol dioxygenase enzymes	*Inorganica Chimica Acta*	537				2022	10.1016/j.ica.2022.120924
75.	Sivaraman, M; Mayakrishnan, S; Balachandran, C; Aoki, S; Maheswari, NU; Perumal, PT	Potassium tert Butoxide Promoted Intramolecular Mizoroki-Heck-Type Radical Cyclization: Photoluminescence Properties and Application in Live Cancer-Cell Imaging	*Synlett*	33	8	785	790	2022	10.1055/a-1782-7150
76.	Jeyakumar, GS; Ramanathan, G; Sivagnanam, UT	Thymoquinone Intercalated Strontium-iron Layered Double Hydroxides For Bone Regeneration	*Tissue Engineering Part A*	28		171	172	2022	
77.	Navya, PV; Gayathri, V; Samanta, D; Sampath, S	Bacterial cellulose: A promising biopolymer with interesting properties and applications	*International Journal of Biological Macromolecules*	220		435	461	2022	10.1016/j.ijbiomac.2022.08.056
78.	Kailasam, S; Arumugam, S; Balaji, K; Kanth, SV	Adsorption of chromium by exopolysaccharides extracted from lignolytic phosphate solubilizing bacteria	*International Journal of Biological Macromolecules*	206		788	798	2022	10.1016/j.ijbiomac.2022.03.047
79.	Vedakumari, SW; Prabu, P; Jancy, SJV; Pravin, YR; Manickavasagam, K; Sastry, TP	Radiopaque fibrin nanocomplex as a promising tool for X-ray imaging applications	*International Journal of Biological Macromolecules*	200		285	292	2022	10.1016/j.ijbiomac.2021.12.164
80.	Venkatesan, N; Yuvaraj, P; Fathima, NN	Fabrication of non-fluorinated superhydrophobic and flame retardant porous material for efficient oil/water separation	*Materials Chemistry and Physics*	286				2022	10.1016/j.matchemphys.2022.126190

81.	Vijayan, AN; Satish, A; Balan, P; Korrapati, PS	Regulatory significance of CULLIN2 in neuronal differentiation and regeneration	*Neurochemistry International*	159				2022	10.1016/j.neuint.2022.105386
82.	Mallick, S; Choutipalli, VSK; Bag, S; Subramanian, V; Raj, CR	Defect Engineered Ternary Spinel: An Efficient Cathode for an Aqueous Rechargeable Zinc-Ion Battery of Long-Term Cyclability	*ACS Applied Materials & Interfaces*	14	33	37577	37586	2022	10.1021/acsami.2c04596
83.	Kariuki, PN; Arjunan, Y; Nagarajan, U; Kanth, SV	the combined effect of thermal-acid hydrolysis, periodate oxidation, and iodine species removal on the properties of native tapioca (Manihot esculenta Crantz) starch	*International Journal of Biological Macromolecules*	196		107	119	2022	10.1016/j.ijbiomac.2021.11.211
84.	Balan, P; Khanam, A; Indrakumar, J; Solaimuthu, A; Murali, P; Vijayan, AN; Korrapati, PS	Electrospun multifaceted nanocomposites for promoting angiogenesis in curing burn wound	*Journal of Drug Delivery Science and Technology*	73				2022	10.1016/j.jddst.2022.103425
85.	Anithabanu, P; Balasubramanian, S; Dayanidhi, PD; Nandhini, T; Vaidyanathan, VG	Physico-chemical characterization studies of collagen labelled with Ru(II) polypyridyl complex	*Heliyon*	8	8			2022	10.1016/j.heliyon.2022.e10173
86.	Fahad, MM; Reza, MS; Prasad, G; Jaisankar, SN; Kim, KJ; Kim, H	Polysomnographic Observation Using Triboelectric Pressure Sensor Composed of Polymer-Pairs Having Coarse Surface	*Fibers and Polymers*	23	6	1490	1499	2022	10.1007/s12221-022-4969-3
87.	Saravanaraj, A; Sivanesh, NE; Anusha, SM; Surianarayanan, M	Metabolic behaviour of Halomanasvariabilis in a bio-reaction calorimeter during batch production of extracellular polymeric substances	*Biochemical Engineering Journal*	188				2022	10.1016/j.bej.2022.108684

88.	Ayyappan, VG; Vhatkar, SS; Bose, S; Sampath, S; Das, SK; Samanta, D; Mandal, AB	Incorporations of gold, silver and carbon nanomaterials to kombucha-derived bacterial cellulose: Development of antibacterial leather-like materials	*Journal of the Indian Chemical Society*	99	1			2022	10.1016/j.jics.2021.100278
89.	Gayathri, V; Jaisankar, SN; Samanta, D	Temperature and pH responsive polymers: sensing applications	*Journal of Macromolecular Science Part A-Pure and Applied Chemistry*	59	2	98	126	2022	10.1080/10601325.2021.1988636
90.	Josephine, GAS; Jayaprakash, K; Sivasamy, A	Flower-shaped ZnO-CeO2nanorectangulates: an efficient photocatalyst for degradation of endocrine disruptor 2,4-dichlorophenoxy acetic acid under visible light	*Bulletin of Materials Science*	45	3			2022	10.1007/s12034-022-02687-4
91.	Ghosh, S; Tsutsui, Y; Kawaguchi, T; Matsuda, W; Nagano, S; Suzuki, K; Kaji, H; Seki, S	Band-like Transport of Charge Carriers in Oriented Two-Dimensional Conjugated Covalent Organic Frameworks	*Chemistry of Materials*	34	2	736	745	2022	10.1021/acs.chemmater.1c03533
92.	Ghorai, S; Jana, B; Pan, D; Ramasamy, T; Parshi, N; Arumugam, G; Ganguly, J	Evaluation of nanofibril chitosan@8-formyl-7-hydroxy-coumarin hydrogel having distinct auto-fluorescence efficiency: Structure-properties relation, improved antioxidant, and cellular imaging	*Journal of Applied Polymer Science*	139	38			2022	10.1002/app.52908
93.	Chaitanya, NK; Rao, YNS; Choutipalli, VSK; Mainkar, PS; Subramanian, V; Chandrasekhar, S	Cascade aryne insertion/vinylogous aldol reaction of vinyl-substituted β-keto/enol carbonyls	*Chemical Communications*	58	19	3178	3181	2022	10.1039/d1cc06810e
94.	Sathish, M; Gobinath, T; Sundaramanickam, A; Saranya, K; Nithin, A; Surya, P	Biomedical applications of carrageenan hydrogel impregnated with zinc oxide nanoparticles	*Inorganic and Nano-Metal Chemistry*	52	5	734	745	2022	10.1080/24701556.2021.1952243

95.	Indrakumar, J; Balan, P; Murali, P; Solaimuthu, A; Vijayan, AN; Korrapati, PS	Applications of molybdenum oxide nanoparticles impregnated collagen scaffolds in wound therapeutics	*Journal of Trace Elements In Medicine and Biology*	72				2022	10.1016/j.jtemb.2022.126983
96.	Pavithra, E; Kannadasan, S; Shanmugam, P	Synthesis of 5-aryl-3,3′-bis-indolyl and bis-7-aza-indolyl methanone derivatives from 5-bromo-7-azaindoles viasequential methylenation using microwave irradiation, CAN oxidation, and Suzuki coupling reactions	*RSC Advances*	12	47	30712	30721	2022	10.1039/d2ra05849a
97.	Gunasekaran, D; Sivagnanam, UT	Biomimetic Umbilical Cord Collagen Hydrogel Patch For Corneal Stroma Reconstruction	*Tissue Engineering Part A*	28		20	21	2022	
98.	Sahu, B; Jayakumar, GC; Alla, JP	Recent trends in oil tanning and its applications-A way forward towards cleaner approach in chamois leather making	*Journal of Cleaner Production*	356				2022	10.1016/j.jclepro.2022.131755
99.	Sureshbabu, P; Bhajammanavar, V; Choutipalli, VSK; Subramanian, V; Baidya, M	Unorthodox cascade reaction of arynes and N nitrosamides leading to indazole scaffolds	*Chemical Communications*	58	8	1187	1190	2022	10.1039/d1cc05655g
100.	Sivakumar, V	Towards environmental protection and process safety in leather processing - A comprehensive analysis and review	*Process Safety and Environmental Protection*	163		703	726	2022	10.1016/j.psep.2022.05.062
101.	George, B; Bhatia, N; Kumar, A; Gnanamani, A; Thilagam, R; Shanuja, SK; Meethal, KV; Shiji, TM; Suchithra, TV	Bioinspired gelatin based sticky hydrogel for diverse surfaces in burn wound care	*Scientific Reports*	12	1			2022	10.1038/s41598-022-17054-w

102.	Indumathy, R; Senthilrajkapoor, P; Kalaiarasi, G; Sathyaraj, G; Uma, V	Synthesis, spectral characterization, protein binding and cytotoxic evaluation of new cobalt(II) and cobalt(III) complexes containing benzimidazolylterpyridine as ligand	*Journal of Coordination Chemistry*	75	19-24	2858	2876	2022	10.1080/00958972.2022.2141116
103.	Kumar, ETD; Easwaramoorthi, S; Rao, JR	Cd2V2O7ZnO mixed oxide for extended wavelength absorption with suppressed charge carrier recombination: A photocatalytic material	*Materials Chemistry and Physics*	289				2022	10.1016/j.matchemphys.2022.126484
104.	Kalirajan, C; Behera, H; Selvaraj, V; Palanisamy, T	In vitro probing of oxidized inulin cross-linked collagen-ZrO2 hybrid scaffolds for tissue engineering applications	*Carbohydrate Polymers*	289				2022	10.1016/j.carbpol.2022.119458
105.	Gouthaman, S; Jayaraj, A; Sugunalakshmi, M; Sivaraman, G; Swamy, PCA	Supramolecular self-assembly mediated aggregation-induced emission of fluorene-derived cyanostilbenes: multifunctional probes for live cell-imaging	*Journal of Materials Chemistry B*	10	13	2238	2250	2022	10.1039/d1tb02322e
106.	Sahu, B; Jayakumar, GC; Madhan, B	the Impact of Potassium Persulfate on Linseed Oil Tanning	*Journal of the American Leather Chemists Association*	117	8	338	343	2022	
107.	Subbiah, N; Palanisamy, T	Collagen-Supported Amino-Functionalized Ag@SiO2 Core-Shell Nanoparticles for Visible-Light-Driven Water Remediation	*ACS Applied Nano Materials*	5	10	14408	14424	2022	10.1021/acsanm.2c02751
108.	Selvakumar, G; Venu, D; Kuttalam, I; Lonchin, S	Inhibition of Advanced Glycation End Product Formation in Rat Tail Tendons by Polydatin and p-Coumaric acid: an In Vitro Study	*Applied Biochemistry and Biotechnology*	194	1	339	353	2022	10.1007/s12010-021-03762-y

109.	Borah, RK; Fatrekar, AP; Bakre, P; Tilve, SG; Vernekar, AA	Fe hotspots in the Ni-Ni₃B nanocatalyst unravel remarkable cooperativity to boost hydrogen production from ammonia borane with enzyme-like catalysis	*Journal of Materials Chemistry A*	10	48	25490	25499	2022	10.1039/d2ta05465e
110.	Gopal, SS; Kasiappan, R; Vallikannan, B; Ponesakki, G	Effective inhibition of adipogenesis-mediated inflammation by a macular carotenoid, lutein in vitro	*Journal of Food Biochemistry*	46	9			2022	10.1111/jfbc.14211
111.	Choutipalli, VSK; Esackraj, K; Varathan, E; Subramanian, V	Vacancy defect assisted enhanced nitrogen fixation in boron nitride nanomaterials	*Applied Surface Science*	602				2022	10.1016/j.apsusc.2022.154406
112.	Khambhaty, Y; Bondada, S; Mandal, S	Kinetics and in vitrorelease studies of drug loaded silver nanoparticles from Indigofera tinctoriaextract	*Indian Journal of Chemical Technology*	29	5	473	484	2022	10.56042/ijct.v29i5.62741
113.	Thilagam, R; Mubeena, S; Punnose, AM; Gnanamani, A	Fibrous protein composite scaffolds (3D) for tissue regeneration: An in vitro study on skeletal muscle regeneration	*Colloids and Surfaces B-Biointerfaces*	217				2022	10.1016/j.colsurfb.2022.112656
114.	Sathish, M; Gopinath, A; Madhan, B; Subramanian, V; Rao, JR	Cyclic carbonate: A green multifunctional agent for sustainable leather manufacture	*Journal of Cleaner Production*	356				2022	10.1016/j.jclepro.2022.131818
115.	Rathinavel, S; Indrakumar, J; Korrapati, PS; Dharmalingam, S	Synthesis and fabrication of amine functionalized SBA-15 incorporated PVA/Curcumin nanofiber for skin wound healing application	*Colloids and Surfaces A-Physicochemical and Engineering Aspects*	637				2022	10.1016/j.colsurfa.2021.128185
116.	Ramya, KR; Sathish, M; Madhan, B; Jaisankar, SN; Saravanan, P	Effective utilization of tannery hair waste to develop a high-performing re-tanning agent for cleaner leather manufacturing	*Journal of Environmental Management*	302				2022	10.1016/j.jenvman.2021.114029

117.	Shivarudrappa, AH; Sharan, K; Ponesakki, G	Lutein activates downstream signaling pathways of unfolded protein response in hyperglycemic ARPE-19 cells	*European Journal of Pharmacology*	914				2022	10.1016/j.ejphar.2021.174663
118.	Easwaran, SN; Mohanakrishnan, AS; Santharam, L; Adimoolam, SR; Mahadevan, S	Metabolic heat responses of Kluyveromyces marxianus and Saccharomyces cerevisiae during Carboxypeptidase Y Enzyme production	*Process Biochemistry*	112		71	79	2022	10.1016/j.procbio.2021.11.015
119.	Pathmanapan, S; Sekar, M; Pandurangan, AK; Anandasadagopan, SK	Fabrication of Mesoporous Silica Nanoparticle-Incorporated Coaxial Nanofiber for Evaluating the In Vitro Osteogenic Potential	*Applied Biochemistry and Biotechnology*	194	1	302	322	2022	10.1007/s12010-021-03741-3
120.	Sowndarya, AAG; Mandal, S; Prasanna, R	Phosphate intercalated Mg/Al layered double hydroxide nanosheets as a novel flame retardant for leather: Synthesis, characterization, and application studies	*Applied Clay Science*	230				2022	10.1016/j.clay.2022.106714
121.	Jamir, E; Sarma, H; Priyadarsinee, L; Nagamani, S; Kiewhuo, K; Gaur, AS; Rawal, RK; Murugan, NA; Subramanian, V; Sastry, GN	Applying polypharmacology approach for drug repurposing for SARS-CoV2	*Journal of Chemical Sciences*	134	2			2022	10.1007/s12039-022-02046-0
122.	Natarajan, P; Karmegam, PM; Madasamy, J; Somasundaram, S	Molybdenum based nanoporous carbon silica matrix for the oxidation of volatile organic compounds present in the pharmaceutical wastewater	*Journal of Water Process Engineering*	48				2022	10.1016/j.jwpe.2022.102886

123.	Mahendiran, B; Muthusamy, S; Sampath, S; Jaisankar, SN; Selvakumar, R; Krishnakumar, GS	In vitro and in vivo biocompatibility of decellularized cellulose scaffolds functionalized with chitosan and platelet rich plasma for tissue engineering applications	*International Journal of Biological Macromolecules*	217		522	535	2022	10.1016/j.ijbiomac.2022.07.052
124.	Kasthuri, J; Sivasamy, A; Rajendiran, N	Green Chemical Synthesis of N Cholyl-L-Cysteine Encapsulated Gold Nanoclusters for Fluorometric Detection of Mercury Ions	*Journal of Fluorescence*	32	4	1347	1356	2022	10.1007/s10895-022-02935-0
125.	Anthoni, SJG; Kuppan, J; Arumugam, S; Govindan, ND; Nadar, VR	rGO supported CeO 2 ZnO ternary nanocomposites for enhanced photocatalytic activity under solar light irradiation for environmental remediation	*Applied Physics A-Materials Science & Processing*	128	5			2022	10.1007/s00339-022-05561-6
126.	Kadirvelu, K; Fathima, NN	Keratin functionalized electrospun PEI/PAN microfiltration system as a simple and sustainable approach for anionic dye removal	*Journal of Environmental Chemical Engineering*	10	3			2022	10.1016/j.jece.2022.107791
127.	Chakladar, S; Mohanty, A; Patar, PK; Chakravarty, S; Mandal, S; Mallick, S; Jha, BC; Singh, NK; Shukla, BN	Demineralization of high ash non-coking coal fines of Indian origin using Castor oil: Implications of wet milling	*International Journal of Coal Preparation and Utilization*	42	11	3213	3234	2022	10.1080/19392699.2021.1946800
128.	Kanagaraj, J; Panda, RC; Prasanna, R	Sustainable chrome tanning system using protein-based product developed from leather waste: wealth from waste	*Polymer Bulletin*	79	11	10201	10228	2022	10.1007/s00289-021-04060-7

129.	Ramanathan, G; Thangavelu, M; Felciya, SJG; Sivagnanam, UT	Dual drug loaded polyhydroxy butyric acid/gelatin nanofibrous scaffold for possible post-surgery cancer treatment	*Materials Letters*	323				2022	10.1016/j.matlet.2022.132597
130.	Benny, AT; Arikkatt, SD; Vazhappilly, CG; Kannadasan, S; Thomas, R; Leelabaiamma, MSN; Radhakrishnan, EK; Shanmugam, P	Chromone, A Privileged Scaffold in Drug Discovery: Developments in the Synthesis and Bioactivity	*Mini-Reviews In Medicinal Chemistry*	22	7	1030	1063	2022	10.2174/1389557521666211124141859
131.	Biswas, C; Chatterjee, A; Vijayan, V; Purohit, CS; Kiran, MS; Ghosh, R	Synthesis, structural characterization and selective anticancer activity of [AgIL)(PPh3)] 2(NO3 2 [L = N(4)-substituted 2-acetylpyridine-N (4)-methyl-3-thiosemicarbazone]	*Inorganic Chemistry Communications*	136				2022	10.1016/j.inoche.2021.109178
132.	Maradagi, T; Kumar, R; Ponesakki, G	Hyperglycaemia-induced human hepatocellular carcinoma (HepG2) cell proliferation through ROS-mediated P38 activation is effectively inhibited by a xanthophyll carotenoid, lutein	*Diabetic Medicine*	39	2			2022	10.1111/dme.14713
133.	Nawabjohn, MS; Sivaprakasam, P; Anandasadagopan, SK; Begum, AA; Pandurangan, AK	Green Synthesis and Characterisation of Silver Nanoparticles Using Cassia tora Seed Extract and Investigation of Antibacterial Potential	*Applied Biochemistry and Biotechnology*	194	1	464	478	2022	10.1007/s12010-021-03651-4
134.	Selvakumar, P	Effect of stimulating footwear on gait and posture in people with Diabetes and foot complications	*Diabetes Research and Clinical Practice*	186				2022	10.1016/j.diabres.2022.109423

135.	Kesavan, SK; Selvaraj, D; Perumal, S; Arunachalakasi, A; Ganesan, N; Chinnaiyan, SK; Balaraman, M	Fabrication of hybrid povidone-iodine impregnated collagen-hydroxypropyl methylcellulose composite scaffolds for wound-healing application	*Journal of Drug Delivery Science and Technology*	70				2022	10.1016/j.jddst.2022.103247
136.	Jebakumar, M; Pachaiyappan, M; Ayyadurai, N; Kamini, NR; Radhakrishnan, J	Engineered silk protein-based core-shell electrospun immunomodulatory fibrous scaffold for tissue regeneration with angiogenesis	*Tissue Engineering Part A*	28		655	655	2022	
137.	Thada, R; Gunasekaran, D; Sivagnanam, UT	Amniotic Membrane Nanoparticles: An Ingenious Approach Towards Regenerative Medicine and Ocular Wound Healing	*Tissue Engineering Part A*	28		154	154	2022	
138.	Smile, SS; Novanna, M; Kannadasan, S; Shanmugam, P	DMSO-allyl bromide: a mild and efficient reagent for atom economic one-pot N-allylation and bromination of 2°-aryl amines, 2-aryl aminoamides, indoles and 7-aza indoles	*RSC Advances*	12	3	1834	1839	2022	10.1039/d1ra08588c
139.	Jawahar, M; Prassanna, J; Ravi, V; Anbarasi, LJ; Jasmine, SG; Manikandan, R; Sekaran, R; Kannan, S	Computer-aided diagnosis of COVID-19 from chest X-ray images using histogram-oriented gradient features and Random Forest classifier	*Multimedia Tools and Applications*	81	28	40451	40468	2022	10.1007/s11042-022-13183-6
140.	Sreekumar, S; Vijayan, V; Singh, F; Sudhakar, M; Lakra, R; Korrapati, PS; Kiran, MS	White to brown adipocyte transition mediated by Apigenin via VEGF-PRDM16 signaling	*Journal of Cellular Biochemistry*	123	11	1793	1807	2022	10.1002/jcb.30316
141.	Vedhanayagam, M; andra, S; Muthalagu, M; Sreeram, KJ	Influence of Functionalized Gold Nanorods on the Structure of Cytochrome -C: An Effective Bio-nanoconjugate for Biomedical Applications	*Inorganic Chemistry Communications*	146				2022	10.1016/j.inoche.2022.110182

142.	Jayakumar, GC; Karthik, V; Kandhan, SJ; Kanagaraj, J	Effect of Enzymatic Treatment in Leather Manufacture at Different Processing Stage	*Journal of the American Leather Chemists Association*	117	12	534	541	2022	
143.	Rasheeda, K; Inbasekar, C; Fathima, NN	Trigonelline hydrochloride conjugated onto PEGylated nanodiamonds for a selective encapsulation efficiency and controlled release for the inhibition of collagen fibrillation	*New Journal of Chemistry*	46	7	3338	3347	2022	10.1039/d1nj04746a
144.	Singh, PK; Chakrabarty, D; Dwivedi, S; Kumar, A; Singh, SP; Sinam, G; Niranjan, A; Singh, PC; Chatterjee, S; Majumdar, D; Tiwari, M; Tripathi, RD	Nitric oxide-mediated alleviation of arsenic stress involving metalloid detoxification and physiological responses in rice (Oryza sativa L.)	*Environmental Pollution*	297				2022	10.1016/j.envpol.2021.118694
145.	Duraisamy, DK; Sureshbhai, PD; Saveri, P; Deshpande, AP; Shanmugam, G	A "self-shrinking" supramolecular hydrogel with a 3D shape memory performance from an unnatural amino acid derivative	*Chemical Communications*	58	96	13377	13380	2022	10.1039/d2cc05507d
146.	Yang, J; Ghosh, S; Roeser, J; Acharjya, A; Penschke, C; Tsutsui, Y; Rabeah, J; Wang, TY; Tameu, SYD; Ye, MY; Grüneberg, J; Li, S; Li, CX; Schomäcker, R; Van de Krol, R; Seki, S; Saalfrank, P; Thomas, A	Constitutional isomerism of the linkages in donor-acceptor covalent organic frameworks and its impact on photocatalysis	*Nature Communications*	13	1			2022	10.1038/s41467-022-33875-9

147.	Muni, RN; Singh, J; Kumar, V; Sharma, S; Sudhakara, P; Aggarwal, V; Rajkumar, S	Multiobjective Optimization of EDM Parameters for Rice Husk Ash/Cu/Mg-Reinforced Hybrid Al-0.7Fe-0.6Si-0.375Cr-0.25Zn Metal Matrix Nanocomposites for Engineering Applications: Fabrication and Morphological Analysis	*Journal of Nanomaterials*	2022				2022	10.1155/2022/2188705
148.	Essomba, JS; Alla, JP; Belibi, PDB; Fathima, NN	Clay/polymer nanocomposite material: a sustainable approach of leather industries wastewater treatment	*International Journal of Environmental Science and Technology*	19	6	5181	5194	2022	10.1007/s13762-021-03376-1
149.	Alam, MS; Siddiq, AM; Ali, M	the micellization studies of cationic gemini surfactant, hexanediyl-1,6-bis(dimethylcetylammonium bromide solutions by conductometric, tensiometric, dye solubilisation, FTIR and 1H NMR: the influence of adenosine and temperature	*Journal of Molecular Liquids*	349				2022	10.1016/j.molliq.2021.118386
150.	Ghosh, S; Prasanthkumar, S; Das, S; Saeki, A; Seki, S; Ajayaghosh, A	Structurally directed thienylenevinylene self-assembly for improved charge carrier mobility: 2D sheets vs. 1D fibers	*Chemical Communications*	58	48	6837	6840	2022	10.1039/d2cc02111k
151.	Govindammal, M; Kannan, S; Srinivasan, P; Prasath, M	Quantum chemical calculations, spectroscopic studies and molecular docking investigations of the anti-cancer drug quercitrin with B-RAF inhibitor	*Heliyon*	8	5			2022	10.1016/j.heliyon.2022.e09539

152.	Talele, P; Jadhav, A; Tayade, S; Sahu, S; Sharma, KK; Shimpi, N	Hydroquinone loaded solid lipid nanoparticles comprised of stearic acid and ionic emulsifiers: Physicochemical characterization and in vitro release study	*Journal of Molecular Liquids*	368				2022	10.1016/j.molliq.2022.120590
153.	Manimegalai, NP; Sivagnanam, UT	A Quantitative Tack On the Nano Construct For the Modulation of Inflammatory Cytokines In Burn Scars	*Tissue Engineering Part A*	28		157	158	2022	
154.	Kumar, S; Koo, YH; Higashino, T; Matsuda, W; Ghosh, S; Tsutsui, Y; Suda, M; Imahori, H; Suzuki, K; Kaji, H; Seki, S	Truxenone Triimide: Two-Dimensional Molecular Arrangements of Triangular Molecules for Air Stable n-Type Semiconductors	*Advanced Electronic Materials*	8	7			2022	10.1002/aelm.202101390
155.	Raghavan, SS; Iqbal, S; Niraikulam, A; Gunasekaran, K	Insights in the structural understanding of amyloidogenicity and mutation-led conformational dynamics of amyloid beta (Aβ) through molecular dynamics simulations and principal component analysis	*Journal of Biomolecular Structure & Dynamics*	40	12	5577	5587	2022	10.1080/07391102.2021.1871955
156.	Vasanth, S; Muthuramalingam, T; Gupta, S	Carbonization Region Measurement in Vegetable Tanned Goat Leather using Machine Vision System for Evaluating Performance Measures of Leather Cut Contour Edges	*Journal of the American Leather Chemists Association*	117	2	54	61	2022	
157.	Vinodhini, C; Kiruthika, SE; Perumal, PT; Chitra, K	Neat multicomponent assembly of highly functionalized Acenaphtho[1,2-b]pyrroles, in vitro evaluation for antioxidant and cytotoxic activities	*Journal of Heterocyclic Chemistry*	59	11	1996	2005	2022	10.1002/jhet.4536

158.	Sadananda, D; Mallikarjunaswamy, AMM; Prashantha, CN; Mala, R; Gouthami, K; Lakshminarayana, L; Ferreira, LFR; Bilal, M; Rahdar, A; Mulla, SI	Recent development in chemosensor probes for the detection and imaging of zinc ions: a systematic review	*Chemical Papers*	76	10	5997	6015	2022	10.1007/s11696-022-02284-z
159.	Priyadarshini, M; Das, I; Ghangrekar, MM; Blaney, L	Advanced oxidation processes: Performance, advantages, and scale-up of emerging technologies	*Journal of Environmental Management*	316				2022	10.1016/j.jenvman.2022.115295
160.	Maanvizhi, S; Radhakrishnan, N; Krishnan, C; Gnanamani, A	Pharmacological evaluation of embelin - chitosan nanoparticles as an antidiabetic agent	*Indian Journal of Pharmacology*	54	2	126	130	2022	10.4103/ijp.ijp_47_20
161.	Bhajammanavar, V; Mallik, S; Choutipalli, VSK; Subramanian, V; Baidya, M	Diastereoselective access to [4,4]-carbospirocycles: governance of thermodynamic enolates with an organocatalyst in vinylogous cascade annulation	*Chemical Communications*	58	13	2188	2191	2022	10.1039/d1cc06544k
162.	Hithamani, G; Ganesan, P	Polyphenols from Indian cereal grains inhibit 3T3-L1 adipogenesis through modulating early and late phase adipogenic markers	*Food Bioscience*	50				2022	10.1016/j.fbio.2022.102075
163.	Sharma, S; Patyal, V; Sudhakara, P; Singh, J; Petru, M; Ilyas, RA	Mechanical, morphological, and fracture-deformation behavior of MWCNTs-reinforced (Al-Cu-Mg-T351) alloy cast nanocomposites fabricated by optimized mechanical milling and powder metallurgy techniques	*Nanotechnology Reviews*	11	1	65	85	2022	10.1515/ntrev-2022-0005

164.	Vellingiri, B; Suriyanarayanan, A; Selvaraj, P; Abraham, KS; Pasha, MY; Winster, H; Gopalakrishnan, AV; Singaravelu, G; Reddy, JK; Ayyadurai, N; Kumar, N; Giridharan, B; Sivaprakash, P; Rao, KRSS; Nachimuthu, SK; Mahalaxmi, I; Venkatesan, D; Narayanasamy, A	Role of heavy metals (copper (Cu), arsenic (As), cadmium (Cd), iron (Fe) and lithium (Li)) induced neurotoxicity	*Chemosphere*	301				2022	10.1016/j.chemosphere.2022.134625
165.	Poonkodi, B; Lakshmi, MS; Tamilselvi, A; Jones, CS; Deepa, K; Pattabi, S; Bakrudeen, HB; Prabhu, K; Kim, SC; Ranjith, MS	Bio-nanocomposite films loaded with lemon leaf extract for bio packaging application	*Journal of King Saud University Science*	34	8			2022	10.1016/j.jksus.2022.102333
166.	Mayakrishnan, S; Kathirvelan, D; Arun, Y; Saranraj, K; Balachandran, C; Aoki, S; Yuvaraj, P; Maheswarai, NU	Design and synthesis of spirooxindole-pyrrolidines embedded with indole and pyridine heterocycles by multicomponent reaction: anticancer and in silico studies	*New Journal of Chemistry*	46	21	10089	10106	2022	10.1039/d1nj05839h
167.	Jawahar, M; Sharen, H; Anbarasi, LJ; Gandomi, AH	ALNett: A cluster layer deep convolutional neural network for acute lymphoblastic leukemia classification	*Computers In Biology and Medicine*	148				2022	10.1016/j.compbiomed.2022.105894
168.	Ramesh, S; Karuppasamy, K; Vikraman, D; Yadav, HM; Kim, HS; Sivasamy, A; Kim, HS	Fabrication of NiCo2S4 accumulated on metal organic framework nanostructured with multiwalled carbon nanotubes composite material for supercapacitor application	*Ceramics International*	48	19	29102	29110	2022	10.1016/j.ceramint.2022.05.048

169.	Senthil, R; Kavukcu, SB; Cakir, S; Türkmen, H; Basaran, B; Alagumuthu, T	Utilization of various solid leather wastes for the production of blended bricks	*Clean Technologies and Environmental Policy*	24	6	1889	1901	2022	10.1007/s10098-022-02295-0
170.	Ramalingam, G; Dhanasezhian, A; Murugesan, A; Saminathan, G; Sivathanu, L	A comparative study on the efficiency of commercial reverse transcriptase-Polymerase chain reaction kits for the detection of severe acute respiratory syndrome coronavirus 2 infections	*Indian Journal of Public Health*	66	3	276	281	2022	10.4103/ijph.ijph_2042_21
171.	Palapetta, SC; Gurusamy, H; Krishnan, S; Ponnusamy, S	Facile Multicomponent Synthesis, Computational, and Docking Studies of Spiroindoloquinazoline Compounds	*ACS Omega*	7	9	7874	7884	2022	10.1021/acsomega.1c06781
172.	Ramesh, S; Yadav, HM; Bathula, C; Palem, RR; Arumugam, S; Kathalingam, A; Kim, HS; Kim, HS	V2O5 nano sheets assembled on nitrogen doped multiwalled carbon nanotubes/carboxy methyl cellulose composite for two-electrode configuration of supercapacitor applications	*Ceramics International*	48	19	29247	29256	2022	10.1016/j.ceramint.2022.05.200
173.	Nair, RR; Mondal, MM; Srinivasan, SV; Weichgrebe, D	Biochar Synthesis from Mineral- and Ash-Rich Waste Biomass, Part 1: Investigation of thermal Decomposition Mechanism during Slow Pyrolysis	*Materials*	15	12			2022	10.3390/ma15124130
174.	Gupte, T; Pandurangan, S; Islam, MR; Srikrishnarka, P; Nagar, A; Ayyadurai, N; Thomas, T; Pradeep, T	Human Skin-Cell-Based Sensor for Environmental Arsenic Detection and for Creating Social Awareness	*ACS Sustainable Chemistry & Engineering*	10	51	17124	17133	2022	10.1021/acssuschemeng.2c04586
175.	Sahu, S; Banu, S; Sahu, AK; Kumar, BVNP; Mishra, AK	Molecular-level insights into inherent heterogeneity of maline deep eutectic system	*Journal of Molecular Liquids*	350				2022	10.1016/j.molliq.2022.118478

176.	Parthasarathy, PR; Manikandamathavan, VM; Chandronitha, C; Vasanthi, HR; Mohan, VK; Vijayakumar, V; Shanmugam, R; Sekaran, S; Nair, BU; Chamundeeswari, D; Thyagarajan, SP	Synthesis, Characterization, and In Vivo Toxicological Evaluation of Copper (II) Oxide Containing Herbometallic Siddha Nanocomplex "Thamira Parpam"	*Frontiers In Bioengineering and Biotechnology*	10				2022	10.3389/fbioe.2022.849441
177.	Varadaraj, S; Kandhasamy, S; Kandoi, S; Radhakrishnan, J; Subramaniam, P; Verma, RS	Multiple cues in acellular amniotic membrane incorporated embelin for tissue engineering	*Materials Today Communications*	33				2022	10.1016/j.mtcomm.2022.104203
178.	Ezhilarasan, D; Mani, U	Valproic acid induced liver injury: An insight into molecular toxicological mechanism	*Environmental Toxicology and Pharmacology*	95				2022	10.1016/j.etap.2022.103967
179.	Senthil, R; Sumathi, V; Tamilselvi, A; Kavukcu, SB; Aruni, AW	Functionalized electrospun nanofibers for high efficiency removal of particulate matter	*Scientific Reports*	12	1			2022	10.1038/s41598-022-12505-w
180.	Cui, X; Li, CH; Ding, WF; Chen, Y; Mao, C; Xu, XF; Liu, B; Wang, DZ; Li, HN; Zhang, YB; Said, Z; Debnath, S; Jamil, M; Ali, HM; Sharma, S	Minimum quantity lubrication machining of aeronautical materials using carbon group nanolubricant: From mechanisms to application	*Chinese Journal of Aeronautics*	35	11	85	112	2022	10.1016/j.cja.2021.08.011
181.	Vimalanathan, S; Shehata, M; Sadasivam, K; Delbue, S; Dolci, M; Pariani, E; D'Alessandro, S; Pleschka, S	Broad Antiviral Effects of Echinacea purpurea against SARS-CoV-2 Variants of Concern and Potential Mechanism of Action	*Microorganisms*	10	11			2022	10.3390/microorganisms10112145

182.	Singh, P; Ujjainiya, R; Prakash, S; Naushin, S; Sardana, V; Bhatheja, N; Singh, AP; Barman, J; Kumar, K; Gayali, S; Khan, R; Rawat, BS; Tallapaka, KB; Anumalla, M; Lahiri, A; Kar, S; Bhosale, V; Srivastava, M; Mugale, MN; Pandey, CP; Khan, S; Katiyar, S; Raj, D; Ishteyaque, S; Khanka, S; Rani, A; Promila; Sharma, J; Seth, A; Dutta, M; Saurabh, N; Veerapandian, M; Venkatachalam, G; Bansal, D; Gupta, D; Halami, PM; Peddha, MS; Veeranna, RP; Pal, A; Singh, RK; Anandasadagopan, SK; Karuppanan, P; Rahman, SN; Selvakumar, G; Venkatesan, S; Karmakar, MK; Sardana, HK; Kothari, A; Parihar, DS; Thakur, A; Saifi, A; Gupta, N; Singh, Y; Reddu, R; Gautam, R; Mishra, A; Mishra, A; Gogeri, I; Rayasam, G; Padwad, Y; Patial, V; Hallan, V; Singh, D; Tirpude, N; Chakrabarti, P; Maity,	A machine learning-based approach to determine infection status in recipients of BBV152 (Covaxin) whole-virion inactivated SARS-CoV-2 vaccine for serological surveys	*Computers In Biology and Medicine*	146				2022	10.1016/j.compbiomed.2022.105419

	SK; Ganguly, D; Sistla, R; Balthu, NK; Kumar, AK; Ranjith, S; Kumar, BV; Jamwal, PS; Wali, A; Ahmed, S; Chouhan, R; Gandhi, SG; Sharma, N; Rai, G; Irshad, F; Jamwal, VL; Paddar, MA; Khan, SU; Malik, F; Ghosh, D; Thakkar, G; Barik, SK; Tripathi, P; Satija, YK; Mohanty, S; Khan, MT; Subudhi, U; Sen, P; Kumar, R; Bhardwaj, A; Gupta, P; Sharma, D; Tuli, A; Chaudhuri, SR; Krishnamurthi, S; Prakash, L; Rao, C; Singh, BN; Chaurasiya, A; Chaurasiya, M; Bhadange, M; Likhitkar, B; Mohite, S; Patil, Y; Kulkarni, M; Joshi, R; Pandya, V; Mahajan, S; Patil, A; Samson, R; Vare, T; Dharne, M; Giri, A; Mahajan, S; Paranjape, S; Sastry, GN; Kalita, J; Phukan, T; Manna, P; Romi, W; Bharali, P; Ozah, D; Sahu, R; Dutta, P; Singh, MG; Gogoi, G; Tapadar, YB; Babu, EVSSK; Sukumaran, RK; Nair, AR; Puthiyamadam, A; Valappil, PK;								

	Prasannakumari, AVP; Chodankar, K; Damare, S; Agrawal, VV; Chaudhary, K; Agrawal, A; Sengupta, S; Dash, D								
183.	Thirunavukarasu, N; Panda, RC	Performance analysis using economic model predictive control for hydrolysis of tallow fat	*Asian Journal of Control*	24	4	1965	1985	2022	10.1002/asjc.2665
184.	Meganathan, I; Pachaiyappan, M; Aarthy, M; Radhakrishnan, J; Mukherjee, S; Shanmugam, G; You, JJ; Ayyadurai, N	Recombinant and genetic code expanded collagen-like protein as a tailorable biomaterial	*Materials Horizons*	9	11	2698	2721	2022	10.1039/d2mh00652a
185.	Narayani, T; Panda, B; Panda, RC; Venkatakrishnan, B; Vedaraman, N	Characterization for Cleaner and Sustainable Production of Glycerol from Tallow Under Aqueous Media at High Pressure and Temperature	*Iranian Journal of Science and Technology Transaction A-Science*	46	4	1197	1210	2022	10.1007/s40995-022-01341-2
186.	Angeline, PD; Panda, RC; Saravanathamizhan, R	Synthesis and characterization of fat-liquor from waste tallow	*International Journal of Chemical Reactor Engineering*	20	8	855	871	2022	10.1515/ijcre-2021-0209
187.	Sujatha, V; Panda, RC	A control philosophy for complex Non-square chemical process	*Journal of Loss Prevention In the Process Industries*	80				2022	10.1016/j.jlp.2022.104900
188.	Veettil, SP; Gopinath, A; Madhan, B; Shanmugam, G	A cyclodextrin-based macrocyclic oligosaccharide cavitand with a dual functionality limits the collagen fibrillogenesis: A possible carbohydrate-based therapeutic molecule for fibrotic diseases	*International Journal of Biological Macromolecules*	207		222	231	2022	10.1016/j.ijbiomac.2022.03.005

189.	Ramar, P; Raghavendra, V; Murugan, P; Samanta, D	Immobilization of Polymers to Surfaces by Click Reaction for Photocatalysis with Recyclability	*Langmuir*	38	44	13344	13357	2022	10.1021/acs.langmuir.2c00809
190.	Mani, M; Deivasigamani, M; Panda, RC; Ramasami, RN	Modelling, control and supervisory optimization of generalized predictive control in catalytic cracking reactor	*International Journal of Chemical Reactor Engineering*	20	7	713	722	2022	10.1515/ijcre-2021-0172
191.	Rethinam, S; Kavukcu, SB; Hemalatha, T; Aruni, AW; Sendemir, A; Türkay, C	Cellulose based electrospun nanofilters: perspectives on tannery effluent waste water treatment	*Cellulose*	29	3	1969	1980	2022	10.1007/s10570-022-04420-0

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