List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effective utilization of tannery hair waste to develop a high-performing re-tanning agent for cleaner leather manufacturing. Journal of Environmental Management, 2022, 302, 114029.	7.8	13
2	Fabrication of hybrid povidone-iodine impregnated collagen-hydroxypropyl methylcellulose composite scaffolds for wound-healing application. Journal of Drug Delivery Science and Technology, 2022, 70, 103247.	3.0	7
3	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, 2022, 207, 222-231.	7.5	3
4	Collagen - Annona polysaccharide scaffolds with tetrahydrocurcumin loaded microspheres for antimicrobial wound dressing. Carbohydrate Polymer Technologies and Applications, 2022, 3, 100204.	2.6	2
5	Cyclic carbonate: A green multifunctional agent for sustainable leather manufacture. Journal of Cleaner Production, 2022, 356, 131818.	9.3	9
6	Turning problem into possibility: A comprehensive review on leather solid waste intra-valorization attempts for leather processing. Journal of Cleaner Production, 2022, 367, 133021.	9.3	37
7	Ferulic acid loaded microspheres reinforced in 3D hybrid scaffold for antimicrobial wound dressing. International Journal of Biological Macromolecules, 2021, 177, 463-473.	7.5	21
8	Chromium-free and waterless vegetable-aluminium tanning system for sustainable leather manufacture. Chemical Engineering Journal Advances, 2021, 7, 100108.	5.2	15
9	N-VanillyInonanamide, a natural product from capsicum oleoresin, as potential inhibitor of collagen fibrillation. International Journal of Biological Macromolecules, 2020, 156, 1146-1152.	7.5	9
10	Comparative analysis of the chemical treatments used in keratin extraction from red sheep's hair and the cell viability evaluations of this keratin for tissue engineering applications. Process Biochemistry, 2020, 90, 223-232.	3.7	31
11	Targeted delivery and apoptosis induction of trans-resveratrol-ferulic acid loaded chitosan coated folic acid conjugate solid lipid nanoparticles in colon cancer cells. Carbohydrate Polymers, 2020, 231, 115682.	10.2	111
12	Development of bio-acceptable leather using bagasse. Journal of Cleaner Production, 2020, 250, 119441.	9.3	29
13	Tannery trimming waste based biodegradable bioplastic: Facile synthesis and characterization of properties. Polymer Testing, 2020, 81, 106250.	4.8	16
14	Chemical/Water-Free Deliming Process Using Supercritical Carbon Dioxide: A Step toward Greener Leather Manufacture. ACS Sustainable Chemistry and Engineering, 2020, 8, 11747-11754.	6.7	10
15	Rumex abyssinicus (mekmeko): A newer alternative for leather manufacture. Environmental Progress and Sustainable Energy, 2020, 39, e13453.	2.3	5
16	Ferulic acidâ€loaded collagen hydrolysate and polycaprolactone nanofibres for tissue engineering applications. IET Nanobiotechnology, 2020, 14, 202-209.	3.8	12
17	Investigations on the antimicrobial activity and wound healing potential of ZnO nanoparticles. Applied Surface Science, 2019, 479, 1169-1177.	6.1	160
18	Leather solid waste: An eco-benign raw material for leather chemical preparation – A circular economy example. Waste Management, 2019, 87, 357-367.	7.4	76

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19	5 Fluorouracilâ€loaded biosynthesised gold nanoparticles for the in vitro treatment of human pancreatic cancer cell. IET Nanobiotechnology, 2019, 13, 824-828.	3.8	15
20	Counterion coupled (COCO) gemini surfactant capped Ag/Au alloy and core–shell nanoparticles for cancer therapy. RSC Advances, 2019, 9, 37830-37845.	3.6	19
21	Type I collagen peptides and nitric oxide releasing electrospun silk fibroin scaffold: A multifunctional approach for the treatment of ischemic chronic wounds. Colloids and Surfaces B: Biointerfaces, 2019, 175, 636-643.	5.0	48
22	Ferulic acid, a natural phenolic compound, as a potential inhibitor for collagen fibril formation and its propagation. International Journal of Biological Macromolecules, 2018, 113, 277-284.	7.5	16
23	Selective binding and dynamics of imidazole alkyl sulfate ionic liquids with human serum albumin and collagen – a detailed NMR investigation. Physical Chemistry Chemical Physics, 2018, 20, 9256-9268.	2.8	28
24	<scp><i>Rumex abyssinicus</i></scp> (mekmeko) extract as cleaner approach for dyeing in product manufacture: Optimization and modeling studies. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2165.	1.5	6
25	Disintegration of collagen fibrils by Glucono-δ-lactone: An implied lead for disintegration of fibrosis. International Journal of Biological Macromolecules, 2018, 107, 175-185.	7.5	8
26	Collagen-fucoidan blend film with the potential to induce fibroblast proliferation for regenerative applications. International Journal of Biological Macromolecules, 2018, 106, 1032-1040.	7.5	48
27	Collagen-silica bio-composite enriched with Cynodon dactylon extract for tissue repair and regeneration. Materials Science and Engineering C, 2018, 92, 297-306.	7.3	11
28	Leprosy-associated chronic wound management using biomaterials. Journal of Global Infectious Diseases, 2018, 10, 99.	0.5	3
29	Synthesis and Fabrication of Collagen-Coated Ostholamide Electrospun Nanofiber Scaffold for Wound Healing. ACS Applied Materials & Interfaces, 2017, 9, 8556-8568.	8.0	103
30	Differential behavior of native and denatured collagen in the presence of alcoholic solvents: A gateway to instant structural analysis. International Journal of Biological Macromolecules, 2017, 102, 1156-1165.	7.5	11
31	Extraction of bio-active compounds from Ethiopian plant material Rumex abyssinicus (mekmeko) root—A study on kinetics, optimization, antioxidant and antibacterial activity. Journal of the Taiwan Institute of Chemical Engineers, 2017, 75, 228-239.	5.3	10
32	κ-Carrageenan: An effective drug carrier to deliver curcumin in cancer cells and to induce apoptosis. Carbohydrate Polymers, 2017, 160, 184-193.	10.2	54
33	Sustainable packaging materials from tannery trimming solid waste: A new paradigm in wealth from waste approaches. Journal of Cleaner Production, 2017, 164, 885-891.	9.3	39
34	Phenotypic Screening Identifies Synergistically Acting Natural Product Enhancing the Performance of Biomaterial Based Wound Healing. Frontiers in Pharmacology, 2017, 8, 433.	3.5	2
35	Fabrication of keratin-silica hydrogel for biomedical applications. Materials Science and Engineering C, 2016, 66, 178-184.	7.3	53
36	Type I collagen and its daughter peptides for targeting mucosal healing in ulcerative colitis: A new treatment strategy. European Journal of Pharmaceutical Sciences, 2016, 91, 216-224.	4.0	22

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37	Preserving the longevity of long-lived type II collagen and its implication for cartilage therapeutics. Ageing Research Reviews, 2016, 28, 62-71.	10.9	30
38	Transient structures of keratins from hoof and horn influence their self association and supramolecular assemblies. International Journal of Biological Macromolecules, 2016, 93, 172-178.	7.5	6
39	Rumex abyssinicus (mekmeko) Ethiopian plant material for preservation of goat skins: Approach for cleaner leather manufacture. Journal of Cleaner Production, 2016, 133, 1043-1052.	9.3	39
40	Extraction of collagen from raw trimming wastes of tannery: a waste to wealth approach. Journal of Cleaner Production, 2016, 113, 338-344.	9.3	66
41	Alternative carrier medium for sustainable leather manufacturing – a review and perspective. Journal of Cleaner Production, 2016, 112, 49-58.	9.3	47
42	Capsaicin inhibits collagen fibril formation and increases the stability of collagen fibers. European Biophysics Journal, 2015, 44, 69-76.	2.2	24
43	Altering the concentration of silica tunes the functional properties of collagen–silica composite scaffolds to suit various clinical requirements. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 52, 131-138.	3.1	13
44	Molecular Level Insights on Collagen–Polyphenols Interaction Using Spin–Relaxation and Saturation Transfer Difference NMR. Journal of Physical Chemistry B, 2015, 119, 14076-14085.	2.6	32
45	High concentration of propanol does not significantly alter the triple helical structure of type I collagen. Colloid and Polymer Science, 2015, 293, 2655-2662.	2.1	5
46	NMR Studies Demonstrate a Unique AAB Composition and Chain Register for a Heterotrimeric Type IV Collagen Model Peptide Containing a Natural Interruption Site. Journal of Biological Chemistry, 2015, 290, 24201-24209.	3.4	19
47	Paclitaxel/Epigallocatechin gallate coloaded liposome: A synergistic delivery to control the invasiveness of MDA-MB-231 breast cancer cells. Colloids and Surfaces B: Biointerfaces, 2015, 125, 65-72.	5.0	77
48	Intra-Articular Injections of Polyphenols Protect Articular Cartilage from Inflammation-Induced Degradation: Suggesting a Potential Role in Cartilage Therapeutics. PLoS ONE, 2015, 10, e0127165.	2.5	45
49	Effect of aqueous ethanol on the tripleÂhelical structure of collagen. European Biophysics Journal, 2014, 43, 643-652.	2.2	35
50	Extraction and characterization of keratin from bovine hoof: A potential material for biomedical applications. SpringerPlus, 2014, 3, 596.	1.2	86
51	Method of addition of acetonitrile influences the structure and stability of collagen. Process Biochemistry, 2014, 49, 210-216.	3.7	14
52	Sol–gel processed mupirocin silica microspheres loaded collagen scaffold: A synergistic bio-composite for wound healing. European Journal of Pharmaceutical Sciences, 2014, 52, 26-33.	4.0	76
53	Sol–Gel Assisted Fabrication of Collagen Hydrolysate Composite Scaffold: A Novel Therapeutic Alternative to the Traditional Collagen Scaffold. ACS Applied Materials & Interfaces, 2014, 6, 15015-15025.	8.0	54
54	Development of keratin–chitosan–gelatin composite scaffold for soft tissue engineering. Materials Science and Engineering C, 2014, 45, 343-347.	7.3	99

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55	Studies on the application of natural dye extract from Bixa orellana seeds for dyeing and finishing of leather. Industrial Crops and Products, 2013, 43, 84-86.	5.2	48
56	2,2,2-Trifluoroethanol disrupts the triple helical structure and self-association of type I collagen. International Journal of Biological Macromolecules, 2013, 54, 155-159.	7.5	20
57	Preparation and evaluation of mesalamine collagen in situ rectal gel: A novel therapeutic approach for treating ulcerative colitis. European Journal of Pharmaceutical Sciences, 2013, 48, 104-110.	4.0	33
58	Dry ice – an eco-friendly alternative for ammonium reduction inÂleather manufacturing. Journal of Cleaner Production, 2013, 54, 289-295.	9.3	14
59	Preparation and properties of tannic acid crossâ€linked collagen scaffold and its application in wound healing. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 560-567.	3.4	114
60	Collagen adsorption on quercetin loaded polycaprolactone microspheres: Approach for "stealth― implant. International Journal of Biological Macromolecules, 2012, 50, 1091-1094.	7.5	20
61	Type I Collagen Immobilized Poly(caprolactone) Nanofibers: Characterization of Surface Modification and Growth of Fibroblasts. Advanced Engineering Materials, 2012, 14, B149.	3.5	43
62	Uv damage of collagen: Insights from model collagen peptides. Biopolymers, 2012, 97, 189-198.	2.4	80
63	Osteogenesis Imperfecta Model Peptides: Incorporation of Residues Replacing Gly within a Triple Helix Achieved by Renucleation and Local Flexibility. Biophysical Journal, 2011, 101, 449-458.	0.5	24
64	Formulation and Evaluation of Quercetin Polycaprolactone Microspheres for the Treatment of Rheumatoid Arthritis. Journal of Pharmaceutical Sciences, 2011, 100, 195-205.	3.3	132
65	Cleaner tanning process for the manufacture of upper leathers. Clean Technologies and Environmental Policy, 2010, 12, 381-388.	4.1	12
66	Cleaner tanning practices for tannery pollution abatement: Role of enzymes in eco-friendly vegetable tanning. Journal of Cleaner Production, 2009, 17, 507-515.	9.3	79
67	Tripleâ€helical peptides: An approach to collagen conformation, stability, and selfâ€association. Biopolymers, 2008, 89, 345-353.	2.4	165
68	Stabilization of collagen by the plant polyphenolics <i>Acacia mollissima</i> and <i>Terminalia chebula</i> . Journal of Applied Polymer Science, 2008, 108, 199-205.	2.6	15
69	Studies on the influence of bacterial collagenase in leather dyeing. Dyes and Pigments, 2008, 76, 338-347.	3.7	52
70	NMR Monitoring of Chain-Specific Stability in Heterotrimeric Collagen Peptides. Journal of the American Chemical Society, 2008, 130, 13520-13521.	13.7	31
71	Predicting the Clinical Lethality of Osteogenesis Imperfecta from Collagen Glycine Mutations. Biochemistry, 2008, 47, 5424-5432.	2.5	68
72	Stabilization of Natural Fiber Collagen Using Vegetable Tannins: An Effective Enzyme Assisted Process. Journal of Natural Fibers, 2008, 5, 404-428.	3.1	3

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73	Role of green tea polyphenols in the inhibition of collagenolytic activity by collagenase. International Journal of Biological Macromolecules, 2007, 41, 16-22.	7.5	133
74	Stabilization of collagen using plant polyphenol: Role of catechin. International Journal of Biological Macromolecules, 2005, 37, 47-53.	7.5	169
75	Recovery and reuse of chromium from tannery wastewaters usingTurbinaria ornata seaweed. Journal of Chemical Technology and Biotechnology, 2004, 79, 1251-1258.	3.2	67
76	Bioaccumulation of Chromium from Tannery Wastewater:Â An Approach for Chrome Recovery and Reuse. Environmental Science & Technology, 2004, 38, 300-306.	10.0	249
77	Interaction of aldehydes with collagen: effect on thermal, enzymatic and conformational stability. International Journal of Biological Macromolecules, 2004, 34, 241-247.	7.5	93
78	Ab initio and density functional theory based studies on collagen triplets. Theoretical Chemistry Accounts, 2003, 110, 19-27.	1.4	8
79	Density functional theory calculations on dipeptide–gallic acid interaction. Chemical Physics Letters, 2003, 369, 131-138.	2.6	8
80	Effect of zirconium(IV) complexes on the thermal and enzymatic stability of type I collagen. Journal of Inorganic Biochemistry, 2003, 95, 47-54.	3.5	61
81	Study on the stabilisation of collagen with vegetable tannins in the presence of acrylic polymer. Biomaterials, 2002, 23, 2841-2847.	11.4	70
82	Molecular mechanics and dynamics studies on the interaction of gallic acid with collagen-like peptides. Chemical Physics Letters, 2001, 346, 334-340.	2.6	40
83	Supercritical carbon dioxide fiber opening: a new paradigm for cleaner leather manufacture. Clean Technologies and Environmental Policy. 0 – 1	4.1	0