List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Bioaccumulation of Chromium from Tannery Wastewater:Â An Approach for Chrome Recovery and Reuse. Environmental Science & Technology, 2004, 38, 300-306.	10.0	249
2	Stabilization of collagen using plant polyphenol: Role of catechin. International Journal of Biological Macromolecules, 2005, 37, 47-53.	7.5	169
3	Tripleâ€helical peptides: An approach to collagen conformation, stability, and selfâ€association. Biopolymers, 2008, 89, 345-353.	2.4	165
4	Investigations on the antimicrobial activity and wound healing potential of ZnO nanoparticles. Applied Surface Science, 2019, 479, 1169-1177.	6.1	160
5	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
6	Formulation and Evaluation of Quercetin Polycaprolactone Microspheres for the Treatment of Rheumatoid Arthritis. Journal of Pharmaceutical Sciences, 2011, 100, 195-205.	3.3	132
7	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
8	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
9	Synthesis and Fabrication of Collagen-Coated Ostholamide Electrospun Nanofiber Scaffold for Wound Healing. ACS Applied Materials & Interfaces, 2017, 9, 8556-8568.	8.0	103
10	Development of keratin–chitosan–gelatin composite scaffold for soft tissue engineering. Materials Science and Engineering C, 2014, 45, 343-347.	7.3	99
11	Interaction of aldehydes with collagen: effect on thermal, enzymatic and conformational stability. International Journal of Biological Macromolecules, 2004, 34, 241-247.	7.5	93
12	Extraction and characterization of keratin from bovine hoof: A potential material for biomedical applications. SpringerPlus, 2014, 3, 596.	1.2	86
13	Uv damage of collagen: Insights from model collagen peptides. Biopolymers, 2012, 97, 189-198.	2.4	80
14	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
15	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
16	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
17	Leather solid waste: An eco-benign raw material for leather chemical preparation $\hat{a} \in A$ circular economy example. Waste Management, 2019, 87, 357-367.	7.4	76
18	Study on the stabilisation of collagen with vegetable tannins in the presence of acrylic polymer. Biomaterials, 2002, 23, 2841-2847.	11.4	70

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19	Predicting the Clinical Lethality of Osteogenesis Imperfecta from Collagen Glycine Mutations. Biochemistry, 2008, 47, 5424-5432.	2.5	68
20	Recovery and reuse of chromium from tannery wastewaters usingTurbinaria ornata seaweed. Journal of Chemical Technology and Biotechnology, 2004, 79, 1251-1258.	3.2	67
21	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
22	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
23	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
24	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
25	Fabrication of keratin-silica hydrogel for biomedical applications. Materials Science and Engineering C, 2016, 66, 178-184.	7.3	53
26	Studies on the influence of bacterial collagenase in leather dyeing. Dyes and Pigments, 2008, 76, 338-347.	3.7	52
27	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
28	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
29	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
30	Alternative carrier medium for sustainable leather manufacturing – a review and perspective. Journal of Cleaner Production, 2016, 112, 49-58.	9.3	47
31	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
32	Type I Collagen Immobilized Poly(caprolactone) Nanofibers: Characterization of Surface Modification and Growth of Fibroblasts. Advanced Engineering Materials, 2012, 14, B149.	3.5	43
33	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
34	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
35	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
36	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

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37	Effect of aqueous ethanol on the tripleÂhelical structure of collagen. European Biophysics Journal, 2014, 43, 643-652.	2.2	35
38	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
39	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
40	NMR Monitoring of Chain-Specific Stability in Heterotrimeric Collagen Peptides. Journal of the American Chemical Society, 2008, 130, 13520-13521.	13.7	31
41	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
42	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
43	Development of bio-acceptable leather using bagasse. Journal of Cleaner Production, 2020, 250, 119441.	9.3	29
44	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
45	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
46	Capsaicin inhibits collagen fibril formation and increases the stability of collagen fibers. European Biophysics Journal, 2015, 44, 69-76.	2.2	24
47	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
48	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
49	Collagen adsorption on quercetin loaded polycaprolactone microspheres: Approach for "stealth― implant. International Journal of Biological Macromolecules, 2012, 50, 1091-1094.	7.5	20
50	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
51	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
52	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
53	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
54	Tannery trimming waste based biodegradable bioplastic: Facile synthesis and characterization of properties. Polymer Testing, 2020, 81, 106250.	4.8	16

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55	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
56	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
57	Chromium-free and waterless vegetable-aluminium tanning system for sustainable leather manufacture. Chemical Engineering Journal Advances, 2021, 7, 100108.	5.2	15
58	Dry ice – an eco-friendly alternative for ammonium reduction inÂleather manufacturing. Journal of Cleaner Production, 2013, 54, 289-295.	9.3	14
59	Method of addition of acetonitrile influences the structure and stability of collagen. Process Biochemistry, 2014, 49, 210-216.	3.7	14
60	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
61	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
62	Cleaner tanning process for the manufacture of upper leathers. Clean Technologies and Environmental Policy, 2010, 12, 381-388.	4.1	12
63	Ferulic acidâ€loaded collagen hydrolysate and polycaprolactone nanofibres for tissue engineering applications. IET Nanobiotechnology, 2020, 14, 202-209.	3.8	12
64	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
65	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
66	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
67	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
68	N-Vanillylnonanamide, a natural product from capsicum oleoresin, as potential inhibitor of collagen fibrillation. International Journal of Biological Macromolecules, 2020, 156, 1146-1152.	7.5	9
69	Cyclic carbonate: A green multifunctional agent for sustainable leather manufacture. Journal of Cleaner Production, 2022, 356, 131818.	9.3	9
70	Ab initio and density functional theory based studies on collagen triplets. Theoretical Chemistry Accounts, 2003, 110, 19-27.	1.4	8
71	Density functional theory calculations on dipeptide–gallic acid interaction. Chemical Physics Letters, 2003, 369, 131-138.	2.6	8
72	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

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73	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
74	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
75	<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
76	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
77	Rumex abyssinicus (mekmeko): A newer alternative for leather manufacture. Environmental Progress and Sustainable Energy, 2020, 39, e13453.	2.3	5
78	Stabilization of Natural Fiber Collagen Using Vegetable Tannins: An Effective Enzyme Assisted Process. Journal of Natural Fibers, 2008, 5, 404-428.	3.1	3
79	Leprosy-associated chronic wound management using biomaterials. Journal of Global Infectious Diseases, 2018, 10, 99.	0.5	3
80	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
81	Phenotypic Screening Identifies Synergistically Acting Natural Product Enhancing the Performance of Biomaterial Based Wound Healing. Frontiers in Pharmacology, 2017, 8, 433.	3.5	2
82	Collagen - Annona polysaccharide scaffolds with tetrahydrocurcumin loaded microspheres for antimicrobial wound dressing. Carbohydrate Polymer Technologies and Applications, 2022, 3, 100204.	2.6	2
83	Supercritical carbon dioxide fiber opening: a new paradigm for cleaner leather manufacture. Clean Technologies and Environmental Policy, 0, , 1.	4.1	0