

Changdao Mu

List of Publications by Year in descending order

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73
papers

4,048
citations

109264

35
h-index

118793

62
g-index

73
all docs

73
docs citations

73
times ranked

4600
citing authors

#	ARTICLE	IF	CITATIONS
1	Modification of collagen with a natural cross-linker, procyanidin. International Journal of Biological Macromolecules, 2011, 48, 354-359.	3.6	282
2	Preparation and properties of dialdehyde carboxymethyl cellulose crosslinked gelatin edible films. Food Hydrocolloids, 2012, 27, 22-29.	5.6	270
3	Gelatin Particle-Stabilized High Internal Phase Emulsions as Nutraceutical Containers. ACS Applied Materials & Interfaces, 2014, 6, 13977-13984.	4.0	227
4	Concomitant degradation in periodate oxidation of carboxymethyl cellulose. Carbohydrate Polymers, 2011, 84, 881-886.	5.1	187
5	Periodate oxidation of xanthan gum and its crosslinking effects on gelatin-based edible films. Food Hydrocolloids, 2014, 39, 243-250.	5.6	184
6	Biological properties of dialdehyde carboxymethyl cellulose crosslinked gelatin-PEG composite hydrogel fibers for wound dressings. Carbohydrate Polymers, 2016, 137, 508-514.	5.1	141
7	Facile Fabrication of Biocompatible Gelatin-Based Self-Healing Hydrogels. ACS Applied Polymer Materials, 2019, 1, 1350-1358.	2.0	120
8	Heteroaggregation in Binary Mixtures of Oppositely Charged Colloidal Particles. Langmuir, 2006, 22, 1038-1047.	1.6	112
9	Temperature induced denaturation of collagen in acidic solution. Biopolymers, 2007, 86, 282-287.	1.2	111
10	Fabrication of Antibacterial Collagen-Based Composite Wound Dressing. ACS Sustainable Chemistry and Engineering, 2018, 6, 9153-9166.	3.2	110
11	Gelatin Effects on the Physicochemical and Hemocompatible Properties of Gelatin/PAAm/Laponite Nanocomposite Hydrogels. ACS Applied Materials & Interfaces, 2015, 7, 18732-18741.	4.0	109
12	Collagen Cryogel Cross-Linked by Dialdehyde Starch. Macromolecular Materials and Engineering, 2010, 295, 100-107.	1.7	107
13	Development of active rosmarinic acid-gelatin biodegradable films with antioxidant and long-term antibacterial activities. Food Hydrocolloids, 2018, 83, 308-316.	5.6	106
14	Preparation, characterization and antibacterial activity of oxidized Î²-carrageenan. Carbohydrate Polymers, 2017, 174, 1051-1058.	5.1	89
15	Ultrasonic irradiation in the enzymatic extraction of collagen. Ultrasonics Sonochemistry, 2009, 16, 605-609.	3.8	85
16	Effects of Cr ³⁺ on the Structure of Collagen Fiber. Langmuir, 2009, 25, 11905-11910.	1.6	83
17	Preparation, physicochemical characterization and release behavior of the inclusion complex of trans-anethole and Î²-cyclodextrin. Food Research International, 2015, 74, 55-62.	2.9	76
18	Collagen cryogel cross-linked by naturally derived dialdehyde carboxymethyl cellulose. Carbohydrate Polymers, 2015, 129, 17-24.	5.1	75

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19	Towards zero discharge of chromium-containing leather waste through improved alkali hydrolysis. <i>Waste Management</i> , 2003, 23, 835-843.	3.7	73
20	Development and characterization of dialdehyde xanthan gum crosslinked gelatin based edible films incorporated with amino-functionalized montmorillonite. <i>Food Hydrocolloids</i> , 2015, 51, 129-135.	5.6	62
21	Ring-opening polymerization of genipin and its long-range crosslinking effect on collagen hydrogel. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 385-393.	2.1	55
22	pH-Responsive nanoparticles based on cholesterol/imidazole modified oxidized-starch for targeted anticancer drug delivery. <i>Carbohydrate Polymers</i> , 2020, 233, 115858.	5.1	53
23	Effects of carboxyl and aldehyde groups on the antibacterial activity of oxidized amylose. <i>Carbohydrate Polymers</i> , 2018, 192, 118-125.	5.1	52
24	A Novel Approach for Synthesis of Zwitterionic Polyurethane Coating with Protein Resistance. <i>Langmuir</i> , 2014, 30, 12860-12867.	1.6	51
25	Emulsion Template Method for the Fabrication of Gelatin-Based Scaffold with a Controllable Pore Structure. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 269-277.	4.0	51
26	A waterborne polyurethane coating functionalized by isobornyl with enhanced antibacterial adhesion and hydrophobic property. <i>European Polymer Journal</i> , 2018, 108, 498-506.	2.6	50
27	Effect of pH on gelatin self-association investigated by laser light scattering and atomic force microscopy. <i>Polymer International</i> , 2002, 51, 233-238.	1.6	47
28	Advances in Pickering emulsions stabilized by protein particles: Toward particle fabrication, interaction and arrangement. <i>Food Research International</i> , 2022, 157, 111380.	2.9	47
29	Tailor-made zwitterionic polyurethane coatings: microstructure, mechanical property and their antimicrobial performance. <i>RSC Advances</i> , 2017, 7, 27522-27529.	1.7	46
30	Fabrication of Polypyrrole-Grafted Gelatin-Based Hydrogel with Conductive, Self-Healing, and Injectable Properties. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3016-3023.	2.0	46
31	Freezing-thawing effects on the properties of dialdehyde carboxymethyl cellulose crosslinked gelatin-MMT composite films. <i>Food Hydrocolloids</i> , 2013, 33, 273-279.	5.6	45
32	Development of Antimicrobial and Controlled Biodegradable Gelatin-Based Edible Films Containing Nisin and Amino-Functionalized Montmorillonite. <i>Food and Bioprocess Technology</i> , 2017, 10, 1727-1736.	2.6	42
33	Functional-modified polyurethanes for rendering surfaces antimicrobial: An overview. <i>Advances in Colloid and Interface Science</i> , 2020, 283, 102235.	7.0	41
34	Development of Disulfide Bond Crosslinked Gelatin/ μ -Polylysine Active Edible Film with Antibacterial and Antioxidant Activities. <i>Food and Bioprocess Technology</i> , 2020, 13, 577-588.	2.6	41
35	Interconnected macroporous 3D scaffolds templated from gelatin nanoparticle-stabilized high internal phase emulsions for biomedical applications. <i>Soft Matter</i> , 2017, 13, 3871-3878.	1.2	38
36	Using oxidized amylose as carrier of linalool for the development of antibacterial wound dressing. <i>Carbohydrate Polymers</i> , 2017, 174, 1095-1105.	5.1	35

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37	Novel hemocompatible nanocomposite hydrogels crosslinked with methacrylated gelatin. <i>RSC Advances</i> , 2016, 6, 43663-43671.	1.7	34
38	Synthesis of oxidized β -cyclodextrin with high aqueous solubility and broad-spectrum antimicrobial activity. <i>Carbohydrate Polymers</i> , 2017, 177, 97-104.	5.1	33
39	Development of Antimicrobial Gelatin-Based Edible Films by Incorporation of Trans-Anethole/ β -Cyclodextrin Inclusion Complex. <i>Food and Bioprocess Technology</i> , 2017, 10, 1844-1853.	2.6	32
40	Dihydromyricetin-Loaded Pickering Emulsions Stabilized by Dialdehyde Cellulose Nanocrystals for Preparation of Antioxidant Gelatin-Based Edible Films. <i>Food and Bioprocess Technology</i> , 2021, 14, 1648-1661.	2.6	32
41	Oxidized amylose with high carboxyl content: A promising solubilizer and carrier of linalool for antimicrobial activity. <i>Carbohydrate Polymers</i> , 2016, 154, 13-19.	5.1	31
42	Green synthesis of β -carrageenan@Ag submicron-particles with high aqueous stability, robust antibacterial activity and low cytotoxicity. <i>Materials Science and Engineering C</i> , 2020, 106, 110185.	3.8	31
43	Antibacterial dialdehyde sodium alginate/ μ -polylysine microspheres for fruit preservation. <i>Food Chemistry</i> , 2022, 387, 132885.	4.2	31
44	Influence of palygorskite on the structure and thermal stability of collagen. <i>Applied Clay Science</i> , 2012, 62-63, 41-46.	2.6	30
45	pH-Sensitive nanoparticles based on amphiphilic imidazole/cholesterol modified hydroxyethyl starch for tumor chemotherapy. <i>Carbohydrate Polymers</i> , 2022, 277, 118827.	5.1	30
46	Comparative study of the effects of anatase and rutile titanium dioxide nanoparticles on the structure and properties of waterborne polyurethane. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 470, 92-99.	2.3	29
47	Freezing/thawing effects on the exfoliation of montmorillonite in gelatin-based bionanocomposite. <i>Journal of Applied Polymer Science</i> , 2013, 128, 3141-3148.	1.3	25
48	Trivalent chromium and aluminum affect the thermostability and conformation of collagen very differently. <i>Journal of Inorganic Biochemistry</i> , 2012, 117, 124-130.	1.5	24
49	A novel hydrophobic all-biomass aerogel reinforced by dialdehyde carboxymethyl cellulose for oil/organic solvent-water separation. <i>Polymer</i> , 2022, 238, 124402.	1.8	23
50	Preparation and characterization of dialdehyde β -cyclodextrin with broad-spectrum antibacterial activity. <i>Food Research International</i> , 2018, 111, 237-243.	2.9	22
51	A facile preparation of a novel non-leaching antimicrobial waterborne polyurethane leather coating functionalized by quaternary phosphonium salt. <i>Journal of Leather Science and Engineering</i> , 2020, 2, .	2.7	22
52	Development of Microspheres Based on Thiol-Modified Sodium Alginate for Intestinal-Targeted Drug Delivery. <i>ACS Applied Bio Materials</i> , 2019, 2, 5810-5818.	2.3	21
53	Revisit the pre-transition of type I collagen denaturation in dilute solution by ultrasensitive differential scanning calorimetry. <i>Thermochimica Acta</i> , 2012, 548, 1-5.	1.2	20
54	Fabrication of water-resistance and durable antimicrobial adhesion polyurethane coating containing weakly amphiphilic poly(isobornyl acrylate) Side chains. <i>Progress in Organic Coatings</i> , 2020, 147, 105812.	1.9	19

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55	Functionalization of an Electroactive Self-Healing Polypyrrole-Grafted Gelatin-Based Hydrogel by Incorporating a Polydopamine@AgNP Nanocomposite. <i>ACS Applied Bio Materials</i> , 2021, 4, 5797-5808.	2.3	19
56	Crosslinking effect of dialdehyde cholesterol modified starch nanoparticles on collagen hydrogel. <i>Carbohydrate Polymers</i> , 2022, 285, 119237.	5.1	19
57	Advances in Antimicrobial Polymer Coatings in the Leather Industry: A Comprehensive Review. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 15004-15018.	1.8	18
58	Molecular weight effects of PEG on the crystal structure and photocatalytic activities of PEG-capped TiO ₂ nanoparticles. <i>RSC Advances</i> , 2016, 6, 83366-83372.	1.7	17
59	Effect of oxidation level on the inclusion capacity and solution stability of oxidized amylose in aqueous solution. <i>Carbohydrate Polymers</i> , 2016, 138, 41-48.	5.1	16
60	Oxidized starch cross-linked porous collagen-based hydrogel for spontaneous agglomeration growth of adipose-derived stem cells. <i>Materials Science and Engineering C</i> , 2020, 116, 111165.	3.8	15
61	Short-range and long-range cross-linking effects of polygenipin on gelatin-based composite materials. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2712-2722.	2.1	14
62	Controlling the Pore Structure of Collagen Sponge by Adjusting the Cross-Linking Degree for Construction of Heterogeneous Double-Layer Bone Barrier Membranes. <i>ACS Applied Bio Materials</i> , 2020, 3, 2058-2067.	2.3	14
63	Matrix metalloproteinase-responsive collagen-oxidized hyaluronic acid injectable hydrogels for osteoarthritic therapy. , 2022, 137, 212804.		13
64	Stability Enhanced Pickering Emulsions Based on Gelatin and Dialdehyde Starch Nanoparticles as Simple Strategy for Structuring Liquid Oils. <i>Food and Bioprocess Technology</i> , 2021, 14, 1600-1610.	2.6	10
65	Functionalization of an Injectable Self-Healing pH-Responsive Hydrogel by Incorporating a Curcumin/Polymerized β -Cyclodextrin Inclusion Complex for Selective Toxicity to Osteosarcoma. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1243-1254.	2.0	10
66	¹³¹ I-Labeled Silk Fibroin Microspheres for Radioembolic Therapy of Rat Hepatocellular Carcinoma. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21848-21859.	4.0	10
67	Effects of montmorillonite on the structure and properties of gelatin-polyethylene glycol composite fibers. <i>Journal of Applied Polymer Science</i> , 2013, 129, 773-778.	1.3	9
68	Emulsion Template Fabrication of Antibacterial Gelatin-Based Scaffolds with a Preferred Microstructure for Accelerated Wound Healing. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3885-3895.	2.0	8
69	Mimicking the Composition and Structure of the Osteochondral Tissue to Fabricate a Heterogeneous Three-Layer Scaffold for the Repair of Osteochondral Defects. <i>ACS Applied Bio Materials</i> , 2022, 5, 734-746.	2.3	7
70	One-Pot Approach for the Synthesis of Water-Soluble Anatase TiO ₂ Nanoparticle Cluster with Efficient Visible Light Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26447-26453.	1.5	6
71	Hydrothermal shrinkage behavior of pigskin. <i>Thermochimica Acta</i> , 2021, 699, 178896.	1.2	2
72	Effect of pH on gelatin self-association investigated by laser light scattering and atomic force microscopy. <i>Polymer International</i> , 2002, 51, 233-238.	1.6	2

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73	Comparative study of the physicochemical and photocatalytic properties of water-soluble polymer-capped TiO ₂ nanoparticles. Environmental Science and Pollution Research, 2018, 25, 26259-26266.	2.7	1