Novel carboxymethyl derivatives of chitin and chitosan applications

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Citation Report

#	Article	IF	CITATIONS
1	Biomedical applications of chitin and chitosan based nanomaterials—A short review. Carbohydrate Polymers, 2010, 82, 227-232.	5.1	1,085
2	Preparation of Modified Chitin for the Removal of Chromium(VI). Bioremediation Journal, 2010, 14, 208-218.	1.0	19
3	Preparation and application of alumina/chitosan biocomposite. International Journal of Biological Macromolecules, 2010, 47, 146-154.	3.6	102
4	Preparation and metal uptake studies of modified forms of chitin. International Journal of Biological Macromolecules, 2010, 47, 583-589.	3.6	32
5	Chitosan for Biomaterials I. Advances in Polymer Science, 2011, , .	0.4	14
6	Biomedical Activity of Chitin/Chitosan Based Materials—Influence of Physicochemical Properties Apart from Molecular Weight and Degree of N-Acetylation. Polymers, 2011, 3, 1875-1901.	2.0	213
7	Multifunctional Chitin Nanogels for Simultaneous Drug Delivery, Bioimaging, and Biosensing. ACS Applied Materials & Interfaces, 2011, 3, 3654-3665.	4.0	88
8	Chitin Scaffolds in Tissue Engineering. International Journal of Molecular Sciences, 2011, 12, 1876-1887.	1.8	162
9	Chitosan: Its Applications in Drug-Eluting Devices. Advances in Polymer Science, 2011, , 185-230.	0.4	28
11	Active Implants and Scaffolds for Tissue Regeneration. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2011, , .	0.7	15
12	Removal of copper(II) using chitin/chitosan nano-hydroxyapatite composite. International Journal of Biological Macromolecules, 2011, 48, 119-124.	3.6	126
13	Chitosan and its derivatives for gene delivery. International Journal of Biological Macromolecules, 2011, 48, 234-238.	3.6	223
14	Fabrication of chitin–chitosan/nano TiO2-composite scaffolds for tissue engineering applications. International Journal of Biological Macromolecules, 2011, 48, 336-344.	3.6	131
15	Fabrication of chitosan/poly(caprolactone) nanofibrous scaffold for bone and skin tissue engineering. International Journal of Biological Macromolecules, 2011, 48, 571-576.	3.6	143
16	Preparation, characterization and antimicrobial activity of a bio-composite scaffold containing chitosan/nano-hydroxyapatite/nano-silver for bone tissue engineering. International Journal of Biological Macromolecules, 2011, 49, 188-193.	3.6	263
17	A physico-chemical and biological study of novel chitosan–chloroquinoline derivative for biomedical applications. International Journal of Biological Macromolecules, 2011, 49, 356-361.	3.6	67
18	4-(Ethoxycarbonyl) phenyl-1-amino-oxobutanoic acid–chitosan complex as a new matrix for silver nanocomposite film: Preparation, characterization and antibacterial activity. International Journal of Biological Macromolecules, 2011, 49, 863-870.	3.6	37
19	Formulation optimization of chelerythrine loaded O-carboxymethylchitosan microspheres using response surface methodology. International Journal of Biological Macromolecules, <u>2011</u> , 49, 970-978.	3.6	33

#	Article	IF	CITATIONS
20	Chitosan scaffolds containing silicon dioxide and zirconia nano particles for bone tissue engineering. International Journal of Biological Macromolecules, 2011, 49, 1167-1172.	3.6	100
21	Novel Chitin and Chitosan Materials in Wound Dressing. , 2011, , .		11
22	Potential Applications of Chitosan as a Marine Cosmeceutical. , 2011, , 319-334.		2
23	Biomaterials based on chitin and chitosan in wound dressing applications. Biotechnology Advances, 2011, 29, 322-337.	6.0	1,572
24	Chitosan-Derivative Based Hydrogels as Drug Delivery Platforms: Applications in Drug Delivery and Tissue Engineering. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2011, , 351-376.	0.7	6
25	Drug delivery in soft tissue engineering. Expert Opinion on Drug Delivery, 2011, 8, 1175-1188.	2.4	54
26	Biomedical applications of chitin hydrogel membranes and scaffolds. Carbohydrate Polymers, 2011, 84, 820-824.	5.1	125
27	Drug loaded thermoresponsive and cytocompatible chitosan based hydrogel as a potential wound dressing. Carbohydrate Polymers, 2011, 83, 705-713.	5.1	136
28	A novel chitosan/polyoxometalate nano-complex for anti-cancer applications. Carbohydrate Polymers, 2011, 84, 887-893.	5.1	73
29	Preparation and properties of starch nanocrystals/carboxymethyl chitosan nanocomposite films. Starch/Staerke, 2011, 63, 528-535.	1.1	70
30	Development of mucoadhesive thiolated chitosan nanoparticles for biomedical applications. Carbohydrate Polymers, 2011, 83, 66-73.	5.1	152
31	Efficient water soluble O-carboxymethyl chitosan nanocarrier for the delivery of curcumin to cancer cells. Carbohydrate Polymers, 2011, 83, 452-461.	5.1	302
32	Biodegradable and thermo-sensitive chitosan-g-poly(N-vinylcaprolactam) nanoparticles as a 5-fluorouracil carrier. Carbohydrate Polymers, 2011, 83, 776-786.	5.1	159
33	Optical Study of Chitosan-Ofloxacin Complex for Biomedical Applications. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 789-795.	1.2	12
34	Novel Carboxymethyl Chitosan Microspheres for Controlled Delivery of Chelerythrine. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 904-911.	1.2	8
35	Synthesis, Characterization and Antioxidant Activity of Quaternized Carboxymethyl Chitosan Oligosaccharides. Journal of Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 861-868.	1.2	19
36	Novel microparticle drug delivery systems based on chitosan and Eudragit [®] RSPM to enhance diltiazem hydrochloride release property. Pharmaceutical Development and Technology, 2012, 17, 741-746.	1.1	3
37	Cellular Biocompatibility and Biomechanical Properties of N-carboxyethylchitosan/nanohydroxyapatite Composites for Tissue-engineered Trachea. Artificial Cells, Blood Substitutes, and Biotechnology, 2012, 40, 120-124	0.9	7

#	Article	IF	CITATIONS
38	Isolation and characterization of cellulose-based nanofibers for nanoparticleextraction from an aqueous environment. Journal of Materials Chemistry, 2012, 22, 1985-1993.	6.7	54
39	Curcumin-Loaded <i>N</i> , <i>O</i> -Carboxymethyl Chitosan Nanoparticles for Cancer Drug Delivery. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 1381-1400.	1.9	135
40	pH sensitive polyelectrolyte complex of O-carboxymethyl chitosan and poly (acrylic acid) cross-linked with calcium for sustained delivery of acid susceptible drugs. International Journal of Pharmaceutics, 2012, 436, 418-425.	2.6	51
41	Basicity, Water Solubility and Intrinsic Viscosity of Carboxymethyl Chitosan as a Biofunctional Material. Advanced Materials Research, 0, 531, 507-510.	0.3	10
42	Bio-composite scaffolds containing chitosan/nano-hydroxyapatite/nano-copper–zinc for bone tissue engineering. International Journal of Biological Macromolecules, 2012, 50, 294-299.	3.6	160
43	O-Carboxymethyl chitosan nanoparticles for metformin delivery to pancreatic cancer cells. Carbohydrate Polymers, 2012, 89, 1003-1007.	5.1	98
44	Carboxyalkylation of chitosan in the gel state. Carbohydrate Polymers, 2012, 90, 1176-1181.	5.1	24
45	Physiochemical and optical study of chitosan–terephthaldehyde derivative for biomedical applications. International Journal of Biological Macromolecules, 2012, 51, 1167-1172.	3.6	36
46	Self-assembly and liver targeting of sulfated chitosan nanoparticles functionalized with glycyrrhetinic acid. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 870-879.	1.7	102
47	An Alternative Solvent System for Blend Electrospinning of Polycaprolactone/Chitosan Nanofibres. Macromolecular Symposia, 2012, 321-322, 71-75.	0.4	25
50	Effect of Molecular Sizes, Sources of Chitosan and Plasticizer Types on Properties of Carboxymethyl Chitosan Films. Advanced Materials Research, 2012, 506, 611-614.	0.3	8
51	Imidazole-containing chitosan derivative: a new synthetic approach and sorption properties. Russian Chemical Bulletin, 2012, 61, 1959-1964.	0.4	23
52	Assessment of Chitosan-Affected Metabolic Response by Peroxisome Proliferator-Activated Receptor Bioluminescent Imaging-Guided Transcriptomic Analysis. PLoS ONE, 2012, 7, e34969.	1.1	15
53	Imino-chitosan biodynamers. Chemical Communications, 2012, 48, 8778.	2.2	121
54	Preparation, evaluation, and <i>in vitro</i> release of folic acid conjugated <i>O</i> arboxymethyl chitosan nanoparticles loaded with methotrexate. Journal of Applied Polymer Science, 2012, 125, E208.	1.3	33
55	Stimuli-responsive materials prepared from carboxymethyl chitosan and poly(γ-glutamic acid) for protein delivery. Carbohydrate Polymers, 2012, 87, 531-536.	5.1	27
56	Synthesis, characterization and in vitro cytocompatibility studies of chitin nanogels for biomedical applications. Carbohydrate Polymers, 2012, 87, 943-949.	5.1	58
57	Determination of the parameters affecting electrospun chitosan fiber size distribution and morphology. Carbohydrate Polymers, 2012, 87, 1295-1301.	5.1	90

#	Article	IF	CITATIONS
58	Current views on fungal chitin/chitosan, human chitinases, food preservation, glucans, pectins and inulin: A tribute to Henri Braconnot, precursor of the carbohydrate polymers science, on the chitin bicentennial. Carbohydrate Polymers, 2012, 87, 995-1012.	5.1	593
59	Development of a phytochemical scaffold for bone tissue engineering using Cissus quadrangularis extract. Carbohydrate Polymers, 2012, 87, 1787-1795.	5.1	50
60	A novel carboxymethyl chitosan-based folate/Fe3O4/CdTe nanoparticle for targeted drug delivery and cell imaging. Carbohydrate Polymers, 2012, 88, 239-249.	5.1	97
61	Simultaneous determination of degree of deacetylation, degree of substitution and distribution fraction of –COONa in carboxymethyl chitosan by potentiometric titration. Carbohydrate Polymers, 2012, 88, 336-341.	5.1	75
62	N-carboxyethylchitosan/nanohydroxyapatite composites scaffold for tracheal cartilage tissue-engineering applications. Micro and Nano Letters, 2012, 7, 76.	0.6	6
63	PEGylated chitosan derivatives: Synthesis, characterizations and pharmaceutical applications. Progress in Polymer Science, 2012, 37, 659-685.	11.8	204
64	Preparation and characterization of La(III) encapsulated silica gel/chitosan composite and its metal uptake studies. Journal of Hazardous Materials, 2012, 203-204, 29-37.	6.5	81
65	Studies on physicochemical characteristics of chitosan derivatives with dicarboxylic acids. Journal of Materials Science, 2012, 47, 1196-1204.	1.7	45
66	Preparation, characterization and transfection efficacy of chitosan nanoparticles containing the intestinal trefoil factor gene. Molecular Biology Reports, 2012, 39, 945-952.	1.0	6
67	In vitro evaluation of paclitaxel loaded amorphous chitin nanoparticles for colon cancer drug delivery. Colloids and Surfaces B: Biointerfaces, 2013, 104, 245-253.	2.5	65
68	Synthesis, characterization and antifungal activity of quaternary derivatives of chitosan on Aspergillus flavus. Microbiological Research, 2013, 168, 50-55.	2.5	69
69	Synthesis and properties of isomeric pyridyl-containing chitosan derivatives. International Journal of Biological Macromolecules, 2013, 62, 426-432.	3.6	22
70	Preparation and characterization of nano chitosan for treatment wastewaters. International Journal of Biological Macromolecules, 2013, 57, 204-212.	3.6	195
71	Chitosan scaffolds containing chicken feather keratin nanoparticles for bone tissue engineering. International Journal of Biological Macromolecules, 2013, 62, 481-486.	3.6	105
72	Influence of radiation crosslinked carboxymethyl-chitosan/gelatin hydrogel on cutaneous wound healing. Materials Science and Engineering C, 2013, 33, 4816-4824.	3.8	115
73	Retinol-encapsulated water-soluble succinated chitosan nanoparticles for antioxidant applications. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 315-329.	1.9	14
74	Novel methods for synthesis and sorption properties of N,O-(2,3-dihydroxy)propylchitosan. Polymer Science - Series B, 2013, 55, 490-495.	0.3	5
75	Eugenol-loaded chitosan nanoparticles: II. Application in bio-based plastics for active packaging. Carbohydrate Polymers, 2013, 96, 586-592.	5.1	89

#	Article	IF	CITATIONS
76	Cetuximab conjugated O-carboxymethyl chitosan nanoparticles for targeting EGFR overexpressing cancer cells. Carbohydrate Polymers, 2013, 93, 661-669.	5.1	92
77	Components Simulation of Viral Envelope via Amino Acid Modified Chitosans for Efficient Nucleic Acid Delivery: In Vitro and In Vivo Study. Advanced Functional Materials, 2013, 23, 2691-2699.	7.8	47
78	Optimization of medium composition for enhanced chitin extraction from Parapenaeus longirostris by Lactobacillus helveticus using response surface methodology. Food Hydrocolloids, 2013, 31, 392-403.	5.6	46
79	Recent advances in chitosan-based nanoparticles for oral delivery of macromolecules. Advanced Drug Delivery Reviews, 2013, 65, 865-879.	6.6	373
80	Chitosan-based nanomaterials: A state-of-the-art review. International Journal of Biological Macromolecules, 2013, 59, 46-58.	3.6	721
81	Homogeneous acetylation of chitosan in ionic liquids. Journal of Applied Polymer Science, 2013, 129, 28-35.	1.3	22
82	The molecular mechanism of mediation of adsorbed serum proteins to endothelial cells adhesion and growth on biomaterials. Biomaterials, 2013, 34, 5747-5758.	5.7	92
83	Antifungal vanillin–imino-chitosan biodynameric films. Journal of Materials Chemistry B, 2013, 1, 3353.	2.9	69
84	Role of nanostructured biopolymers and bioceramics in enamel, dentin and periodontal tissue regeneration. Progress in Polymer Science, 2013, 38, 1748-1772.	11.8	74
85	Chitosan conjugates for DNA delivery. Physical Chemistry Chemical Physics, 2013, 15, 11893.	1.3	16
86	Gelation of Vesicles and Nanoparticles Using Water-Soluble Hydrophobically Modified Chitosan. Langmuir, 2013, 29, 15302-15308.	1.6	29
87	Sodium Carboxymethyl Chitosan as a Fixative for Eau de Cologne. Tropical Journal of Pharmaceutical Research, 2013, 12, .	0.2	2
88	Development of Dorzolamide Loaded <i>6-O</i> -Carboxymethyl Chitosan Nanoparticles for Open Angle Glaucoma. Journal of Drug Delivery, 2013, 2013, 1-15.	2.5	37
89	THE SURFACE MODIFICATION OF CdSe –TGA QUANTUM DOTS WITH MULTIDENTATE BIOPOLYMER LIGAND BASED ON SALEP: AN EASY ROUTE FOR ENHANCING FLUORESCENCE INTENSITY. Nano, 2013, 08, 1350012.	0.5	0
90	DETERMINATION OF PICOMOLE CONCENTRATIONS OF ALUMINUM (III) IN HUMAN SALIVA AND URINE BY A LUMINOL-CARBOXYMETHYL CHITOSAN CHEMILUMINESCENCE SYSTEM. Instrumentation Science and Technology, 2013, 41, 524-534.	0.9	10
91	Antioxidant, Antimicrobial Properties of Chitin, Chitosan, and Their Derivatives. , 2013, , 217-228.		0
93	Recent Development in Applications of Important Biopolymer Chitosan in Biomedicine, Pharmaceuticals and Personal Care Products. Current Tissue Engineering, 2013, 2, 20-40.	0.2	29
94	Preparation of amphoteric <i>N,O</i> â€carboxymethyl hydroxypropyl chitosan by a twoâ€step reaction. Journal of Applied Polymer Science, 2014, 131, .	1.3	5

#	Article	IF	CITATIONS
95	Green polymer electrolytes based on chitosan and 1-butyl-3-methylimidazolium acetate. AIP Conference Proceedings, 2014, , .	0.3	5
96	Outâ€ofâ€Water Constitutional Selfâ€Organization of Chitosan–Cinnamaldehyde Dynagels. Chemistry - A European Journal, 2014, 20, 4814-4821.	1.7	71
97	<i>In situ</i> gelling polysaccharideâ€based hydrogel for cell and drug delivery in tissue engineering. Journal of Applied Polymer Science, 2014, 131, .	1.3	32
98	Utilization of carboxymethyl chitosan in cosmetics. International Journal of Cosmetic Science, 2014, 36, 12-21.	1.2	157
99	Chitin, Chitosan, and Their Derivatives Against Oxidative Stress and Inflammation, and Some Applications. , 2014, , 389-405.		0
100	Characterization of physicochemical properties of carboxymethyl agar. Carbohydrate Polymers, 2014, 111, 449-455.	5.1	26
101	Preparation and application of chitin and its derivatives: a review. Iranian Polymer Journal (English) Tj ETQq0 0 0 i	rgBT /Over 1.3	rlock 10 Tf 50 145
102	Preparation and Characterization of Antimicrobial Films Based on Chitosan for Active Food Packaging Applications. Food and Bioprocess Technology, 2014, 7, 2932-2941.	2.6	60
103	Strategies to improve chitosan hemocompatibility: A review. European Polymer Journal, 2014, 53, 171-188.	2.6	193
104	Carboxylmethyl chitosan-graft-poly(γ-benzyl-l-glutamate) glycopeptides: Synthesis and particle formation as encapsulants. Polymer, 2014, 55, 540-549.	1.8	18
105	Fish discards management in selected Spanish and Portuguese métiers: Identification and potential valorisation. Trends in Food Science and Technology, 2014, 36, 29-43.	7.8	36
106	Seafood Processing By-Products. , 2014, , .		22
107	Adsorption of Cu(II) and Ni(II) using a Novel Xanthated Carboxymethyl Chitosan. Separation Science and Technology, 2014, 49, 1235-1243.	1.3	21
108	Biotransformation of Waste Biomass into High Value Biochemicals. , 2014, , .		50
109	Cytocompatible injectable carboxymethyl chitosan/N-isopropylacrylamide hydrogels for localized drug delivery. Carbohydrate Polymers, 2014, 103, 110-118.	5.1	135
110	Versatile carboxymethyl chitin and chitosan nanomaterials: a review. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2014, 6, 574-598.	3.3	76
111	Enzymatic Synthesis of Dendritic Amphoteric αâ€Glucans by Thermostable Phosphorylase Catalysis. Macromolecular Bioscience, 2014, 14, 1437-1443.	2.1	22
112	Molecularly imprinted layer-coated hollow polysaccharide microcapsules toward gate-controlled release of water-soluble drugs. RSC Advances, 2014, 4, 26063.	1.7	26

ARTICLE IF CITATIONS # Antioxidant Effects of Chitin, Chitosan, and Their Derivatives. Advances in Food and Nutrition 113 1.5 228 Research, 2014, 73, 15-31. Synthesis, physiochemical characterization, and biocompatibility of a chitosan/dextran-based 114 hydrogel for postsurgical adhesion prevention. Journal of Materials Science: Materials in Medicine, 1.7 2014, 25, 2743-2756. Chitosan modified magnetic nanoparticles based solid phase extraction combined with ICP-OES for the 115 1.3 54 speciation of Cr(<scp>iii</scp>) and Cr(<scp>vi</scp>). Analytical Methods, 2014, 6, 8577-8583. Non-cytotoxic conductive carboxymethyl-chitosan/aniline pentamer hydrogels. Reactive and 116 2.0 Functional Polymers, 2014, 82, 81-88. Simple synthesis and chelation capacity of N-(2-sulfoethyl)chitosan, a taurine derivative. 117 5.1 33 Carbohydrate Polymers, 2014, 112, 462-468. Physicochemical properties and drug release behavior of biguanidino and O-carboxymethyl chitosan 3.6 microcapsules. International Journal of Biological Macromolecules, 2014, 70, 257-265. Preparation and properties of polyester fabrics grafted with O-carboxymethyl chitosan. Carbohydrate 119 5.1 53 Polymers, 2014, 113, 344-352. Synthesis of metal ion loaded silica gel/chitosan biocomposite and its fluoride uptake studies from 2.6 water. Journal of Water Process Engineering, 2014, 3, 144-150. Manufacture and performance of O-carboxymethyl chitosan sodium salt/cellulose fibers in 121 2 1.1 N-methylmorpholine-N-oxide system. Fibers and Polymers, 2014, 15, 1575-1582. PEGylated carboxymethyl chitosan/calcium phosphate hybrid anionic nanoparticles mediated hTERT 5.7 140 siRNA delivery for anticancer therapy. Biomaterials, 2014, 35, 7978-7991. New prospects for the synthesis of N-alkyl phosphonate/phosphonic acid-bearing oligo-chitosan. RSC 123 27 1.7 Advances, 2014, 4, 24042-24052. Pentacyanoferrate(II) complexes with N-containing derivatives of chitosan and polyallylamine: Synthesis and cesium uptake properties. Colloids and Surfaces A: Physicochemical and Engineering 124 2.3 Áspects, 2014, 460, 145-150. Graphene oxide reinforced chitosan/polyvinylpyrrolidone polymer bioâ€nanocomposites. Journal of 125 1.3 79 Applied Polymer Science, 2014, 131, . The versatile biopolymer chitosan: potential sources, evaluation of extraction methods and applications. Critical Reviews in Microbiology, 2014, 40, 155-175. 2.7 168 Polycationâ€mediated gene delivery: Challenges and considerations for the process of plasmid DNA 127 2.0 34 transfection. Engineering in Life Sciences, 2015, 15, 489-498. Nanohydroxyapatite-reinforced chitosan composite hydrogel for bone tissue repair in vitro and in 198 vivo. Journal of Nanobiotechnology, 2015, 13, 40. Optimized synthesis of O-carboxymethyl-N,N,N-trimethyl chitosan. Carbohydrate Polymers, 2015, 122, 129 5.132 46-52. Blend microspheres of chitosan and polyurethane for controlled release of water-soluble antihypertensitive drugs. Polymer Bulletin, 2015, 72, 265-280.

	Сітаті	CITATION REPORT	
#	Article	IF	CITATIONS
131	Preparation and Characterization of Carboxymethyl Chitosan Modified Magnetic Nanoparticles for Bovine Serum Albumin Adsorption. Separation Science and Technology, 2015, 50, 299-309.	1.3	10
132	Electrochemically induced reversible formation of carboxymethyl chitin hydrogel and tunable protein release. New Journal of Chemistry, 2015, 39, 1253-1259.	1.4	23
133	Bioâ€nanocomposite films based on cellulose nanocrystals filled polyvinyl alcohol/chitosan polymer blend. Journal of Applied Polymer Science, 2015, 132, .	1.3	133
134	In Vitro Culture and Directed Osteogenic Differentiation of Human Pluripotent Stem Cells on Peptides-Decorated Two-Dimensional Microenvironment. ACS Applied Materials & Interfaces, 2015, 7, 4560-4572.	4.0	36
135	Marine Biomaterials. , 2015, , 1195-1215.		9
136	Marine Nutraceuticals. , 2015, , 995-1014.		7
137	"Smart―carboxymethylchitosan hydrogels crosslinked with poly(N-isopropylacrylamide) and poly(acrylic acid) for controlled drug release. Polymer Testing, 2015, 42, 26-36.	2.3	43
138	Complex Coacervation of O-Carboxymethylated Chitosan and Gum Arabic. International Journal of Polymeric Materials and Polymeric Biomaterials, 2015, 64, 198-204.	1.8	20
139	Green Solvents in Carbohydrate Chemistry: From Raw Materials to Fine Chemicals. Chemical Reviews, 2015, 115, 6811-6853.	23.0	296
140	Preparation and characterization of cross-linked carboxymethyl chitin porous membrane scaffold for biomedical applications. Carbohydrate Polymers, 2015, 126, 150-155.	5.1	25
141	Novel magnetic antimicrobial nanocomposites for bone tissue engineering applications. RSC Advances, 2015, 5, 25437-25445.	1.7	21
142	Sorption of heavy metal ions onto carboxylate chitosan derivatives—A mini-review. Ecotoxicology and Environmental Safety, 2015, 116, 113-120.	2.9	147
143	Preparing valuable renewable nanocomposite films based exclusively on oceanic biomass – Chitin nanofillers and chitosan. Reactive and Functional Polymers, 2015, 89, 31-39.	2.0	76
144	Collagen/chitosan based two-compartment and bi-functional dermal scaffolds for skin regeneration. Materials Science and Engineering C, 2015, 52, 155-162.	3.8	59
145	O-carboxymethyl functionalization of chitosan: Complexation and adsorption of Cd (II) and Cr (VI) as heavy metal pollutant ions. Reactive and Functional Polymers, 2015, 97, 37-47.	2.0	126
146	Pharmacokinetics and biodegradation performance of a hydroxypropyl chitosan derivative. Journal of Ocean University of China, 2015, 14, 888-896.	0.6	24
147	Chemical sensor development based on poly(o-anisidine)silverized–MWCNT nanocomposites deposited on glassy carbon electrodes for environmental remediation. RSC Advances, 2015, 5, 71370-71378.	1.7	42
148	Drug release, cell adhesion and wound healing evaluations of electrospun carboxymethyl chitosan/polyethylene oxide nanofibres containing phenytoin sodium and vitamin C. IET Nanobiotechnology, 2015, 9, 191-200.	1.9	54

	Сітаті	ION REPORT	
#	Article	IF	Citations
149	Drug Delivery Applications of Chitosan and its Derivatives. , 2015, , 637-678.		2
150	Preparation and characteristics of nanosilver composite based on chitosan-graft-acrylic acid copolymer. Journal of Polymer Research, 2015, 22, 1.	1.2	28
151	A Review on Bionanocomposites Based on Chitosan and Its Derivatives for Biomedical Applications. Advanced Structured Materials, 2015, , 173-208.	0.3	20
152	N-succinyl chitosan preparation, characterization, properties and biomedical applications: a state of the art review. Reviews in Chemical Engineering, 2015, 31, .	2.3	51
153	Preparation, characterisation and <i>in vitro</i> cytotoxicity studies of chelerythrine-loaded magnetic Fe ₃ O ₄ @O-carboxymethylchitosan nanoparticles. Journal of Experimental Nanoscience, 2015, 10, 483-498.	1.3	6
154	Multifunctional magnetic and fluorescent core–shell nanoparticles for bioimaging. Nanoscale, 2015, 7, 1606-1609.	2.8	41
155	Exploitation of zinc oxide impregnated chitosan beads for the photocatalytic decolorization of an azo dye. International Journal of Biological Macromolecules, 2015, 72, 900-910.	3.6	54
156	Chitosan-based nanoparticles for tumor-targeted drug delivery. International Journal of Biological Macromolecules, 2015, 72, 1313-1322.	3.6	219
157	Preparation and characterization of O-carboxymethyl chitosan–sodium alginate polyelectrolyte complexes. Colloid and Polymer Science, 2015, 293, 401-407.	1.0	17
158	Glycerophosphate-based chitosan thermosensitive hydrogels and their biomedical applications. Carbohydrate Polymers, 2015, 117, 524-536.	5.1	290
159	Rheological properties of O-carboxymethyl chitosan – gum Arabic coacervates as a function of coacervation pH. Food Hydrocolloids, 2015, 43, 436-441.	5.6	38
160	Cyclodextrin-grafted chitosan hydrogels for controlled drug delivery. International Journal of Biological Macromolecules, 2015, 72, 299-308.	3.6	98
161	A critical review on cellulose: From fundamental to an approach on sensor technology. Renewable and Sustainable Energy Reviews, 2015, 41, 402-412.	8.2	240
162	Thin film coatings and the biological interface. , 2016, , 143-164.		6
163	Fabrication of Gelatin-Based Electrospun Composite Fibers for Anti-Bacterial Properties and Protein Adsorption. Marine Drugs, 2016, 14, 192.	2.2	24
164	Chemoenzymatic synthesis and pH-responsive properties of amphoteric block polysaccharides. Organic and Biomolecular Chemistry, 2016, 14, 6449-6456.	1.5	7
166	Characterization and electrical properties of chitosan for waste water treatment. AIP Conference Proceedings, 2016, , .	0.3	0
167	Hydrazine sensor based on silver nanoparticle-decorated polyaniline tungstophosphate nanocomposite for use in environmental remediation. Mikrochimica Acta, 2016, 183, 1787-1796.	2.5	49

#	Article	IF	CITATIONS
168	Preparation and characterization of oxidized konjac glucomannan/carboxymethyl chitosan/graphene oxide hydrogel. International Journal of Biological Macromolecules, 2016, 91, 358-367.	3.6	72
169	A review of chitosan and its derivatives in bone tissue engineering. Carbohydrate Polymers, 2016, 151, 172-188.	5.1	493
170	Preparation of copper-chelate quaternized carboxymethyl chitosan/organic rectorite nanocomposites for algae inhibition. Carbohydrate Polymers, 2016, 151, 130-134.	5.1	30
171	The structure and composition of iron nanoparticles stabilized by carboxymethyl chitin resulting from ultrasonic irradiation. Protection of Metals and Physical Chemistry of Surfaces, 2016, 52, 66-73.	0.3	1
172	Structural analysis, and antioxidant and antibacterial properties of chitosan-poly (vinyl alcohol) biodegradable films. Environmental Science and Pollution Research, 2016, 23, 15310-15320.	2.7	126
173	Enhancement of bioactivity and bioavailability of curcumin with chitosan based materials. Korean Journal of Chemical Engineering, 2016, 33, 3316-3329.	1.2	14
174	Ionic-Liquid-Based Aqueous Biphasic Systems. Green Chemistry and Sustainable Technology, 2016, , .	0.4	22
175	ABS Constituted by Ionic Liquids and Carbohydrates. Green Chemistry and Sustainable Technology, 2016, , 37-60.	0.4	2
176	A semi-interpenetrating network polyampholyte hydrogel simultaneously demonstrating remarkable toughness and antibacterial properties. New Journal of Chemistry, 2016, 40, 10520-10525.	1.4	11
178	Radiation-chemical synthesis of silver nanoparticles in aqueous solution of chitin derivative. Inorganic Materials: Applied Research, 2016, 7, 730-736.	0.1	2
179	Genipin-crosslinked O-carboxymethyl chitosan–gum Arabic coacervate as a pH-sensitive delivery system and microstructure characterization. Journal of Biomaterials Applications, 2016, 31, 193-204.	1.2	23
180	Determination of natural phenols in olive fruits by chitosan assisted matrix solid-phase dispersion microextraction and ultrahigh performance liquid chromatography with quadrupole time-of-flight tandem mass spectrometry. Journal of Chromatography A, 2016, 1456, 68-76.	1.8	52
181	Electrospinning of natural polymers for advanced wound care: towards responsive and adaptive dressings. Journal of Materials Chemistry B, 2016, 4, 4801-4812.	2.9	166
182	Defluoridation of water by Tea - bag model using La 3+ modified synthetic resin@chitosan biocomposite. International Journal of Biological Macromolecules, 2016, 91, 1002-1009.	3.6	26
183	Active packaging with antifungal activities. International Journal of Food Microbiology, 2016, 220, 73-90.	2.1	124
184	High performance polyaniline/vanadyl phosphate (PANI–VOPO4) nano composite sheets prepared by exfoliation/intercalation method for sensing applications. European Polymer Journal, 2016, 75, 388-398.	2.6	43
185	Highly efficient Suzuki cross-coupling reaction of biomaterial supported catalyst derived from glyoxal and chitosan. Journal of Organometallic Chemistry, 2016, 803, 30-38.	0.8	52
186	An overview of chitin or chitosan/nano ceramic composite scaffolds for bone tissue engineering. International Journal of Biological Macromolecules, 2016, 93, 1338-1353.	3.6	225

#		IF	CITATIONS
187	Chitin and chitosan based polyurethanes: A review of recent advances and prospective biomedical	36	157
107	applications. International Journal of Biological Macromolecules, 2016, 86, 630-645.	5.0	157
188	A carboxymethyl chitosan and peptide-decorated polyetheretherketone ternary biocomposite with enhanced antibacterial activity and osseointegration as orthopedic/dental implants. Journal of Materials Chemistry B, 2016, 4, 1878-1890.	2.9	55
189	Polysaccharide-Based Hydrogels as Biomaterials. Springer Series on Polymer and Composite Materials, 2016, , 45-71.	0.5	12
190	Characterization of O-Carboxymethyl Chitosan – Gum Arabic Coacervates as a Function of Degree of Substitution. Journal of Dispersion Science and Technology, 2016, 37, 1368-1374.	1.3	13
191	Constitutional Dynamic Materials—Toward Natural Selection of Function. Chemical Reviews, 2016, 116, 809-834.	23.0	101
192	Advancing biomaterials of human origin for tissue engineering. Progress in Polymer Science, 2016, 53, 86-168.	11.8	817
193	Development and characterization of chitosan-based antimicrobial films incorporated with streptomycin loaded starch nanoparticles. European Journal of Molecular and Clinical Medicine, 2017, 3, 22.	0.5	7
194	Comparison of protein- and polysaccharide-based nanoparticles for cancer therapy: synthesis, characterization, drug release, and interaction with a breast cancer cell line. Artificial Cells, Nanomedicine and Biotechnology, 2017, 45, 193-203.	1.9	22
195	Preparation of poly(2-methylaniline)V(III) tungstate nanofiber and its application as indicator electrode by diffusion phenomenon. Solid State Ionics, 2017, 301, 28-34.	1.3	3
196	The pH sensitive properties of carboxymethyl chitosan nanoparticles cross-linked with calcium ions. Colloids and Surfaces B: Biointerfaces, 2017, 153, 229-236.	2.5	112
197	Ultrasound stimulated release of gallic acid from chitin hydrogel matrix. Materials Science and Engineering C, 2017, 75, 478-486.	3.8	42
198	Titanium Coatings and Surface Modifications: Toward Clinically Useful Bioactive Implants. ACS Biomaterials Science and Engineering, 2017, 3, 1245-1261.	2.6	234
199	Effect of coacervation conditions on the viscoelastic properties of N,O-carboxymethyl chitosan – gum Arabic coacervates. Food Chemistry, 2017, 228, 236-242.	4.2	21
200	A Sustainable Bioeconomy. , 2017, , .		31
201	Biochemicals. , 2017, , 141-183.		0
202	Intestine-targeted delivery potency of the O-carboxymethyl chitosan–gum Arabic coacervate: Effects of coacervation acidity and possible mechanism. Materials Science and Engineering C, 2017, 79, 423-429.	3.8	21
203	Enhanced solubility and antioxidant activity of chlorogenic acid-chitosan conjugates due to the conjugation of chitosan with chlorogenic acid. Carbohydrate Polymers, 2017, 170, 206-216.	5.1	134
204	pH-triggered chitosan nanogels via an ortho ester-based linkage for efficient chemotherapy. Acta Biomaterialia, 2017, 60, 232-243.	4.1	37

#	Article	IF	CITATIONS
205	Viscoelastic behavior of mineralized (CaCO3) chitin based PVP-CMC hydrogel scaffolds. AIP Conference Proceedings, 2017, , .	0.3	1
206	Preparation and characterization of a novel bacterial cellulose/chitosan bio-hydrogel. Nanomaterials and Nanotechnology, 2017, 7, 184798041770717.	1.2	71
207	An overview of carboxymethyl derivatives of chitosan: Their use as biomaterials and drug delivery systems. Materials Science and Engineering C, 2017, 77, 1349-1362.	3.8	182
208	Carboxylated chitosan/silver-hydroxyapatite hybrid microspheres with improved antibacterial activity and cytocompatibility. Materials Science and Engineering C, 2017, 78, 589-597.	3.8	58
209	Chitosan based nanofibers in bone tissue engineering. International Journal of Biological Macromolecules, 2017, 104, 1372-1382.	3.6	206
210	Hydroxyapatite-chitosan biocomposites synthesized in the simulated body fluid and their drug loading studies. Journal of Materials Science: Materials in Medicine, 2017, 28, 180.	1.7	9
211	High-Strength Films Consisted of Oriented Chitosan Nanofibers for Guiding Cell Growth. Biomacromolecules, 2017, 18, 3904-3912.	2.6	48
212	Chitosan-Based Nanoparticulate Systems: Implication Towards Therapeutics Application. , 2017, , 167-225.		3
214	Preparation of chitosan/safflower and ligusticum wallichii polysaccharides hydrogel for potential application in drug delivery and tissue engineering. Journal of Materials Research, 2017, 32, 2719-2727.	1.2	3
216	Rapid biomimetic remineralization of the demineralized enamel surface using nano-particles of amorphous calcium phosphate guided by chimaeric peptides. Dental Materials, 2017, 33, 1217-1228.	1.6	57
217	Chitin and Chitosan: Structure, Properties and Applications in Biomedical Engineering. Journal of Polymers and the Environment, 2017, 25, 854-866.	2.4	479
218	Utilization of chitosan-caged liposomes to push the boundaries of therapeutic delivery. Carbohydrate Polymers, 2017, 157, 991-1012.	5.1	53
219	Preparation of chitosan/pumpkin polysaccharide hydrogel for potential application in drug delivery and tissue engineering. Journal of Porous Materials, 2017, 24, 497-506.	1.3	7
220	Removal of various pollutants from water and wastewater by modified chitosan adsorbents. Critical Reviews in Environmental Science and Technology, 2017, 47, 2331-2386.	6.6	272
222	The role of nanotechnology and chitosan-based biomaterials for tissue engineering and therapeutic delivery. , 2017, , 1-29.		10
223	Self-Assembly in Dynameric Systems. , 2017, , 217-240.		0
224	Chitosan/carbon-based nanomaterials as scaffolds for tissue engineering. , 2017, , 381-397.		11
225	Polycaprolactone/carboxymethyl chitosan nanofibrous scaffolds for bone tissue engineering application. International Journal of Biological Macromolecules, 2018, 115, 243-248.	3.6	126

#	Article	IF	CITATIONS
226	Hemostatic Ability of Chitosanâ€Phosphate Inspired by Coagulation Mechanisms of Platelet Polyphosphates. Macromolecular Bioscience, 2018, 18, e1700378.	2.1	30
227	A Novel Hydrogel Surface Grafted With Dual Functional Peptides for Sustaining Longâ€Term Selfâ€Renewal of Human Induced Pluripotent Stem Cells and Manipulating Their Osteoblastic Maturation. Advanced Functional Materials, 2018, 28, 1705546.	7.8	41
228	Separation and Recovery of a Hemicelluloseâ€Derived Sugar Produced from the Hydrolysis of Biomass by an Acidic Ionic Liquid. ChemSusChem, 2018, 11, 1099-1107.	3.6	24
229	Dopamine self-polymerized along with hydroxyapatite onto the preactivated titanium percutaneous implants surface to promote human gingival fibroblast behavior and antimicrobial activity for biological sealing. Journal of Biomaterials Applications, 2018, 32, 1071-1082.	1.2	26
230	Effect of urea addition on chitosan dissolution with [Emim]Ac-Urea solution system. Carbohydrate Polymers, 2018, 195, 288-297.	5.1	17
231	Bio-active nanocomposite films based on nanocrystalline cellulose reinforced styrylquinoxalin-grafted-chitosan: Antibacterial and mechanical properties. International Journal of Biological Macromolecules, 2018, 114, 733-740.	3.6	32
232	Different Porosities of Chitosan Can Influence the Osteogenic Differentiation Potential of Stem Cells. Journal of Cellular Biochemistry, 2018, 119, 625-633.	1.2	17
233	Evaluation of Extracted β-chitosan From Loligo duvauceli for the Preparation of Tissue Engineering Scaffolds. Journal of Polymers and the Environment, 2018, 26, 1231-1238.	2.4	4
234	Carboxymethyl chitosan based nanocomposites containing chemically bonded quantum dots and magnetic nanoparticles. Applied Surface Science, 2018, 433, 188-196.	3.1	10
235	Natural and synthetic polymers/bioceramics/bioactive compounds-mediated cell signalling in bone tissue engineering. International Journal of Biological Macromolecules, 2018, 110, 88-96.	3.6	125
236	In vitro cytocompatibility of chitosan/PVA/methylcellulose – Nanocellulose nanocomposites scaffolds using L929 fibroblast cells. Applied Surface Science, 2018, 449, 574-583.	3.1	55
237	Synthesis of hybrid materials using graft copolymerization on non-cellulosic polysaccharides via homogenous ATRP. Progress in Polymer Science, 2018, 76, 1-39.	11.8	58
238	Co-concentration effect of silane with natural extract on biodegradable polymeric films for food packaging. International Journal of Biological Macromolecules, 2018, 106, 351-359.	3.6	49
239	Synthesis, Characterization, Swelling, and Metal Uptake Studies of Aryl Cross-Linked Chitosan Hydrogels. ACS Omega, 2018, 3, 17416-17424.	1.6	41
240	Fabrication, rheological analysis, and in vitro characterization of in situ chemically crossâ€linkable thermogels as controlled and prolonged drug depot for localized and systemic delivery. Polymers for Advanced Technologies, 2019, 30, 755-771.	1.6	8
241	Calcium phosphate and calcium carbonate mineralization of bioinspired hydrogels based on β-chitin isolated from biomineral of the common cuttlefish (Sepia officinalis, L.). Journal of Polymer Research, 2018, 25, 1.	1.2	5
242	Carboxymethyl chitosan: Properties and biomedical applications. International Journal of Biological Macromolecules, 2018, 120, 1406-1419.	3.6	455
243	Scaffolds Fabricated from Natural Polymers/Composites by Electrospinning for Bone Tissue Regeneration, Advances in Experimental Medicine and Biology, 2018, 1078, 49-78.	0.8	38

#	Article	IF	CITATIONS
244	Biocompatible Porous Scaffolds of Chitosan/Poly(EG- <i>ran</i> -PG) Blends with Tailored Pore Size and Nontoxic to <i>Mesenchymal</i> Stem Cells: Preparation by Controlled Evaporation from Aqueous Acetic Acid Solution. ACS Omega, 2018, 3, 10286-10295.	1.6	12
245	Chitosan based hydrogels and their applications for drug delivery in wound dressings: A review. Carbohydrate Polymers, 2018, 199, 445-460.	5.1	553
246	Synthesis and characterization of carboxymethyl chitosan/Fe3O4 and MnFe2O4 nanocomposites hydrogels for loading and release of curcumin. Journal of Photochemistry and Photobiology B: Biology, 2018, 185, 206-214.	1.7	39
247	Surface-modified chitin by TEMPO-mediated oxidation and adsorption of Cd(II). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 103-110.	2.3	29
248	Chemical sensing platform for the Zn+2 ions based on poly(o-anisidine-co-methyl anthranilate) copolymer composites and their environmental remediation in real samples. Environmental Science and Pollution Research, 2018, 25, 27899-27911.	2.7	17
249	Design of magnetic-fluorescent based nanosensor for highly sensitive determination and removal of HG2+. Ceramics International, 2018, 44, 9746-9752.	2.3	11
250	Chitosan and Its Derivatives for Application in Mucoadhesive Drug Delivery Systems. Polymers, 2018, 10, 267.	2.0	481
251	Synthesis, Characterization, and Antifungal Activity of Nâ€Quaternized and Nâ€Diquaternized Chitin Derivatives. Starch/Staerke, 2018, 70, 1800026.	1.1	3
252	Influence of chitin nanocrystals on the dielectric behaviour and conductivity of chitosan-based bionanocomposites. Composites Science and Technology, 2018, 167, 323-330.	3.8	19
253	An insight into the determination of trace levels of benzodiazepines in biometric systems: Use of crab shell powder as an environmentally friendly biosorbent. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1092, 58-64.	1.2	9
254	Singlet Oxygen Production and Tunable Optical Properties of Deacetylated Chitin-Porphyrin Crosslinked Films. Biomacromolecules, 2018, 19, 3291-3300.	2.6	20
255	Synthesis and Characterization of Carboxyethylated Lignosulfonate. ChemSusChem, 2018, 11, 2967-2980.	3.6	29
256	Synthetic modifications of chitin and chitosan as multipurpose biopolymers: A review. Synthetic Communications, 2018, 48, 1893-1908.	1.1	23
257	Rational Design and Development of Anisotropic and Mechanically Strong Gelatinâ€Based Stress Relaxing Hydrogels for Osteogenic/Chondrogenic Differentiation. Macromolecular Bioscience, 2019, 19, 1900099.	2.1	13
258	Chitosan-Based Biocomposite Scaffolds and Hydrogels for Bone Tissue Regeneration. Springer Series in Biomaterials Science and Engineering, 2019, , 413-442.	0.7	4
259	Green synthesis of strontium nanoparticles selfâ€assembled in the presence of carboxymethyl cellulose: an <i>in vivo</i> imaging study. Luminescence, 2019, 34, 870-876.	1.5	15
260	Molecular Mechanism of Anti-Cancer Activity of the Nano-Drug C-PC/CMC-CD59sp NPs in Cervical Cancer. Journal of Cancer, 2019, 10, 92-104.	1.2	18
261	Prevention of postoperative peritoneal adhesions in rats with sidewall defect-bowel abrasions using metal ion-crosslinked N-succinyl chitosan hydrogels. Reactive and Functional Polymers, 2019, 145, 104374.	2.0	9

#	ARTICLE	IF	CITATIONS
262	Studies on anti-hepatocarcinoma effect, pharmacokinetics and tissue distribution of carboxymethyl chitosan based norcantharidin conjugates. Carbohydrate Polymers, 2019, 226, 115297.	5.1	22
263	Chitosanâ€based delivery systems for curcumin: A review of pharmacodynamic and pharmacokinetic aspects. Journal of Cellular Physiology, 2019, 234, 12325-12340.	2.0	35
264	Moisture Sorption Isotherms and Prediction Models of Carboxymethyl Chitosan Films from Different Sources with Various Plasticizers. Advances in Materials Science and Engineering, 2019, 2019, 1-18.	1.0	19
265	Thiolated-Chitosan: A Novel Mucoadhesive Polymer for Better-Targeted Drug Delivery. , 2019, , 459-493.		9
266	Carboxymethyl chitosan as a polyampholyte mediating intrafibrillar mineralization of collagen via collagen/ACP self-assembly. Journal of Materials Science and Technology, 2019, 35, 1894-1905.	5.6	23
267	Synthesis and characterization of water-soluble chitosan membrane blended with a mobile carrier for CO2 separation. Separation and Purification Technology, 2019, 222, 177-187.	3.9	31
268	Pharmacotherapy and nanotechnology. , 2019, , 1-21.		0
269	Chitosan-based nanoparticles: promising biomedical applications in specific drug delivery and targeting. , 2019, , 215-257.		2
270	Chitosan-based asymmetric topological membranes with cell-like features for healthcare applications. Journal of Materials Chemistry B, 2019, 7, 2634-2642.	2.9	14
271	Preparation, Mechanical Properties, and Biocompatibility of Graphene Oxide-Reinforced Chitin Monofilament Absorbable Surgical Sutures. Marine Drugs, 2019, 17, 210.	2.2	23
272	Glaucoma: Current treatment and impact of advanced drug delivery systems. Life Sciences, 2019, 221, 362-376.	2.0	111
273	Synthesis and characterizations of o-nitrochitosan based biopolymer electrolyte for electrochemical devices. PLoS ONE, 2019, 14, e0212066.	1.1	33
274	pH/Thermo-Dual Responsive Tunable In Situ Cross-Linkable Depot Injectable Hydrogels Based on Poly(N-Isopropylacrylamide)/Carboxymethyl Chitosan with Potential of Controlled Localized and Systemic Drug Delivery. AAPS PharmSciTech, 2019, 20, 119.	1.5	42
275	Preparation and Evaluation of Dual Targeting Nanoparticles for Oral Cancer. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 1495-1504.	0.4	0
276	Chitosan as a Wound Dressing Starting Material: Antimicrobial Properties and Mode of Action. International Journal of Molecular Sciences, 2019, 20, 5889.	1.8	406
277	Poly Sulfoxyamine Grafted Chitosan as Bactericidal Dressing for Wound Healing. Asian Journal of Chemistry, 2019, 32, 127-132.	0.1	4
278	Removal of phosphate and nitrate ions from aqueous solution using La3+ incorporated chitosan biopolymeric matrix membrane. International Journal of Biological Macromolecules, 2019, 124, 492-504.	3.6	84
279	Coherently demodulated orbital angular momentum shift keying system using a CNN-based image identifier as demodulator. Optics Communications, 2019, 435, 367-373.	1.0	14

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#	Article	IF	CITATIONS
280	Bioactive Compounds and Their Potential Use as Ingredients for Food and Its Application in Food Packaging. , 2019, , 143-156.		15
281	Applications of cellulose and chitin/chitosan derivatives and composites as antibacterial materials: current state and perspectives. Applied Microbiology and Biotechnology, 2019, 103, 1989-2006.	1.7	97
282	Influence of chitosan oligosaccharide on the gelling and wound healing properties of injectable hydrogels based on carboxymethyl chitosan/alginate polyelectrolyte complexes. Carbohydrate Polymers, 2019, 205, 312-321.	5.1	103
283	Chitosan-based nanoparticles: An overview of biomedical applications and its preparation. Journal of Drug Delivery Science and Technology, 2019, 49, 66-81.	1.4	149
284	Pharmaceutical applications of chitosan. Advances in Colloid and Interface Science, 2019, 263, 131-194.	7.0	391
285	Dopamine hydrochloride and carboxymethyl chitosan coatings for multifilament surgical suture and their influence on friction during sliding contact with skin substitute. Friction, 2020, 8, 58-69.	3.4	11
286	Simultaneous deacetylation and degradation of chitin hydrogel by electrical discharge plasma using low sodium hydroxide concentrations. Carbohydrate Polymers, 2020, 228, 115377.	5.1	7
287	Antibacterial properties of carboxymethyl chitosan Schiff-base nanocomposites loaded with silver nanoparticles. Journal of Macromolecular Science - Pure and Applied Chemistry, 2020, 57, 145-155.	1.2	41
288	Highâ€speed CO ₂ transport channel containing carboxymethyl chitosan/hydrotalcite membrane for CO ₂ separation. Journal of Applied Polymer Science, 2020, 137, 48715.	1.3	13
289	Dialdehyde-β-cyclodextrin-crosslinked carboxymethyl chitosan hydrogel for drug release. Carbohydrate Polymers, 2020, 231, 115678.	5.1	64
290	Quaternary ammonium salts of chitosan. A critical overview on the synthesis and properties generated by quaternization. European Polymer Journal, 2020, 139, 110016.	2.6	98
291	Chitosan: Structural modification, biological activity and application. International Journal of Biological Macromolecules, 2020, 164, 4532-4546.	3.6	266
292	A review on chitosan and its development as pulmonary particulate anti-infective and anti-cancer drug carriers. Carbohydrate Polymers, 2020, 250, 116800.	5.1	73
293	Study on TEMPO-Mediated Oxidation of N-Succinyl Chitosan and the Water Retention Property. Molecules, 2020, 25, 4698.	1.7	14
294	Prospection of recent chitosan biomedical trends: Evidence from patent analysis (2009–2020). International Journal of Biological Macromolecules, 2020, 165, 1924-1938.	3.6	52
295	New water-soluble derivatives of chitin and their based nanoparticles: Antibacterial and catalytic activity. International Journal of Biological Macromolecules, 2020, 163, 2005-2012.	3.6	3
296	Chitin and its derivatives: Structural properties and biomedical applications. International Journal of Biological Macromolecules, 2020, 164, 526-539.	3.6	105
297	Antioxidant and Moisturizing Properties of Carboxymethyl Chitosan with Different Molecular Weights. Polymers, 2020, 12, 1445.	2.0	53

#	Article	IF	CITATIONS
298	Chitosan Derivatives with Mucoadhesive and Antimicrobial Properties for Simultaneous Nanoencapsulation and Extended Ocular Release Formulations of Dexamethasone and Chloramphenicol Drugs. Pharmaceutics, 2020, 12, 594.	2.0	40
299	Chitosan and its Derivatives for Ocular Delivery Formulations: Recent Advances and Developments. Polymers, 2020, 12, 1519.	2.0	95
300	Regulation of the Morphological and Physical Properties of a Soft Tissue Scaffold by Manipulating DD and DS of <i>O</i> -Carboxymethyl Chitin. ACS Applied Bio Materials, 2020, 3, 6187-6195.	2.3	1
301	Preparation and analysis of photochromic behavior of carboxymethyl chitin derivatives containing spiropyran moieties. Designed Monomers and Polymers, 2020, 23, 106-117.	0.7	5
302	Al3+ incorporated chitosan-gelatin hybrid microspheres and their use for toxic ions removal: Assessment of its sustainability metrics. Environmental Chemistry and Ecotoxicology, 2020, 2, 97-106.	4.6	8
303	Size effect of carboxymethyl chitin nanocrystals on the properties of foams in aqueous surfactant solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 604, 125306.	2.3	10
304	Research status of self-healing hydrogel for wound management: A review. International Journal of Biological Macromolecules, 2020, 164, 2108-2123.	3.6	151
305	The antibacterial structure-activity relationship for common chitosan derivatives. International Journal of Biological Macromolecules, 2020, 165, 1686-1693.	3.6	23
308	Quaternary Ammonium Chitosans: The Importance of the Positive Fixed Charge of the Drug Delivery Systems. International Journal of Molecular Sciences, 2020, 21, 6617.	1.8	34
309	Polymer Based Bioadhesive Biomaterials for Medical Application—A Perspective of Redefining Healthcare System Management. Polymers, 2020, 12, 3015.	2.0	13
310	Facile synthesis of chitosan membranes for visible-light-driven photocatalytic degradation of tetracycline hydrochloride. RSC Advances, 2020, 10, 45171-45179.	1.7	15
311	Study on the transfection efficiency of chitosanâ€based gene vectors modified with polyâ€lâ€arginine peptides. Journal of Biomedical Materials Research - Part A, 2020, 108, 2409-2420.	2.1	7
312	Biodegradable 3D printed HA/CMCS/PDA scaffold for repairing lacunar bone defect. Materials Science and Engineering C, 2020, 116, 111148.	3.8	28
313	Parkinson's disease: Current drug therapy and unraveling the prospects of nanoparticles. Journal of Drug Delivery Science and Technology, 2020, 58, 101790.	1.4	13
314	Carboxymethyl chitosan has sensitive two-way CO2-responsive hydrophilic/hydrophobic feature. Carbohydrate Polymers, 2020, 241, 116408.	5.1	16
315	Biologically Active Water Soluble Novel Biopolymer/Hydrazide Based O-Carboxymethyl Chitosan Schiff Bases: Synthesis and Characterisation. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 3658-3676.	1.9	20
316	Synthesis and physicochemical characterization of a ZnO-Chitosan hybrid-biocomposite used as an environmentally friendly photocatalyst under UV-A and visible light irradiations. Journal of Environmental Chemical Engineering, 2020, 8, 104260.	3.3	20
317	Enhanced fluorescence of carboxymethyl chitosan via metal ion complexation in both solution and hydrogel states. International Journal of Biological Macromolecules, 2020, 152, 50-56.	3.6	36

#	Article	IF	CITATIONS
318	5-Fluorouracil monodispersed chitosan microspheres: Microfluidic chip fabrication with crosslinking, characterization, drug release and anticancer activity. Carbohydrate Polymers, 2020, 236, 116094.	5.1	53
319	Biomimetic fabrication of icariin loaded nano hydroxyapatite reinforced bioactive porous scaffolds for bone regeneration. Chemical Engineering Journal, 2020, 394, 124895.	6.6	44
320	Anisotropic Hydrogels with High Mechanical Strength by Stretching-Induced Oriented Crystallization and Drying. ACS Applied Polymer Materials, 2020, 2, 2142-2150.	2.0	11
321	Synthesis, characterization, and performance of carboxymethyl chitosan with different molecular weight as additive in water-based drilling fluid. Journal of Molecular Liquids, 2020, 310, 113135.	2.3	24
322	Continuous production of antibacterial carboxymethyl chitosan-zinc supramolecular hydrogel fiber using a double-syringe injection device. International Journal of Biological Macromolecules, 2020, 156, 252-261.	3.6	46
323	Injectable melatonin-loaded carboxymethyl chitosan (CMCS)-based hydrogel accelerates wound healing by reducing inflammation and promoting angiogenesis and collagen deposition. Journal of Materials Science and Technology, 2021, 63, 236-245.	5.6	35
324	Preparation of carboxylmethylchitosan and alginate blend membrane for diffusion-controlled release of diclofenac diethylamine. Journal of Materials Science and Technology, 2021, 63, 210-215.	5.6	15
325	Study on the mechanical properties and microstructure of chitosan reinforced metakaolin-based geopolymer. Construction and Building Materials, 2021, 271, 121522.	3.2	20
326	Biodegradability properties of biopolymers. , 2021, , 231-251.		0
327	Fabrication of flexible blend films using a chitosan derivative and poly(trimethylene carbonate). Polymer Journal, 2021, 53, 823-833.	1.3	5
328	The dual antiâ€caries effect of carboxymethyl chitosan nanogel loaded with chimeric lysin ClyR and amorphous calcium phosphate. European Journal of Oral Sciences, 2021, 129, e12784.	0.7	14
329	Physicochemical characteristics of thermo-responsive gelatin membranes containing carboxymethyl chitosan and poly(N-isopropylacrylamide-co-acrylic acid). Journal of Polymer Research, 2021, 28, 1.	1.2	6
330	Water-soluble triazole chitin derivative and its based nanoparticles: Synthesis, characterization, catalytic and antibacterial properties. Carbohydrate Polymers, 2021, 257, 117593.	5.1	8
331	Chitosan modified by organo-functionalities as an efficient nanoplatform for anti-cancer drug delivery process. Journal of Drug Delivery Science and Technology, 2021, 62, 102407.	1.4	20
332	Insect Chitin-Based Nanomaterials for Innovative Cosmetics and Cosmeceuticals. Cosmetics, 2021, 8, 40.	1.5	52
333	The immunostimulatory effects of hydroxypropyltrimethyl ammonium chloride chitosan-carboxymethyl chitosan nanoparticles. International Journal of Biological Macromolecules, 2021, 181, 398-409.	3.6	18
334	Effect of chitosan as adsorben to bacto agar quality from Gelidium sp Journal of Physics: Conference Series, 2021, 1943, 012176.	0.3	0
335	Chitosan-based 3D-printed scaffolds for bone tissue engineering. International Journal of Biological Macromolecules, 2021, 183, 1925-1938.	3.6	73

#	Article	IF	CITATIONS
336	Gelation process of carboxymethyl chitosan-zinc supramolecular hydrogel studied with fluorescence imaging and mathematical modelling. International Journal of Pharmaceutics, 2021, 605, 120804.	2.6	6
337	Interpenetrating polysaccharide-based hydrogel: A dynamically responsive versatile medium for precisely controlled synthesis of nanometals. Materials Science and Engineering C, 2021, 127, 112211.	3.8	5
338	A review on chitosan and chitosan-based bionanocomposites: Promising material for combatting global issues and its applications. International Journal of Biological Macromolecules, 2021, 185, 832-848.	3.6	158
339	Synthesis, characterization, and antioxidant activity of carboxymethyl chitosan derivatives containing sulfonium salt. Journal of Oceanology and Limnology, 0, , 1.	0.6	5
340	Recent advances in biopolymer-based formulations for wound healing applications. European Polymer Journal, 2021, 160, 110784.	2.6	31
341	Chitosan films and scaffolds for regenerative medicine applications: A review. Carbohydrate Polymers, 2021, 273, 118631.	5.1	79
342	Phycocyanin from Arthrospira platensis as Potential Anti-Cancer Drug: Review of In Vitro and In Vivo Studies. Life, 2021, 11, 91.	1.1	45
343	Chitin-based nanomaterials. , 2021, , 249-275.		0
344	Fabrication of Carboxymethyl Chitosan Nanoparticles to Deliver Paclitaxel for Melanoma Treatment. ChemNanoMat, 2020, 6, 1373-1385.	1.5	16
345	Biologically Active Compounds Form Seafood Processing By-Products. , 2014, , 299-311.		2
345 346	Biologically Active Compounds Form Seafood Processing By-Products. , 2014, , 299-311. Introduction to Seafood Processing By-products. , 2014, , 1-9.		2 7
345 346 347	Biologically Active Compounds Form Seafood Processing By-Products. , 2014, , 299-311. Introduction to Seafood Processing By-products. , 2014, , 1-9. Transformation of Seafood Wastes into Chemicals and Materials. , 2018, , 1-23.		2 7 6
345 346 347 348	Biologically Active Compounds Form Seafood Processing By-Products., 2014,, 299-311. Introduction to Seafood Processing By-products., 2014,, 1-9. Transformation of Seafood Wastes into Chemicals and Materials., 2018,, 1-23. Transformation of Seafood Wastes into Chemicals and Materials., 2019,, 461-482.		2 7 6 4
345 346 347 348	Biologically Active Compounds Form Seafood Processing By-Products. , 2014, , 299-311. Introduction to Seafood Processing By-products. , 2014, , 1-9. Transformation of Seafood Wastes into Chemicals and Materials. , 2018, , 1-23. Transformation of Seafood Wastes into Chemicals and Materials. , 2019, , 461-482. Functional Chitosan Carriers for Oral Colon-Specific Drug Delivery. , 2019, , 135-161.		2 7 6 4
 345 346 347 348 349 350 	Biologically Active Compounds Form Seafood Processing By-Products., 2014,, 299-311. Introduction to Seafood Processing By-products., 2014,, 1-9. Transformation of Seafood Wastes into Chemicals and Materials., 2018,, 1-23. Transformation of Seafood Wastes into Chemicals and Materials., 2019,, 461-482. Functional Chitosan Carriers for Oral Colon-Specific Drug Delivery., 2019,, 135-161. In situ generation of silver nanoparticles and nanocomposite films based on electrodeposition of carboxylated chitosan. Carbohydrate Polymers, 2020, 242, 116391.	5.1	2 7 6 4 1 27
 345 346 347 348 349 350 351 	Biologically Active Compounds Form Seafood Processing By-Products., 2014,, 299-311. Introduction to Seafood Processing By-products., 2014,, 1-9. Transformation of Seafood Wastes into Chemicals and Materials., 2018,, 1-23. Transformation of Seafood Wastes into Chemicals and Materials., 2019,, 461-482. Functional Chitosan Carriers for Oral Colon-Specific Drug Delivery., 2019,, 135-161. In situ generation of silver nanoparticles and nanocomposite films based on electrodeposition of carboxylated chitosan. Carbohydrate Polymers, 2020, 242, 116391. Synthesis of carboxymethyl chitosan as an eco-friendly amphoteric shale inhibitor in water-based drilling fluid and an assessment of its inhibition mechanism. Applied Clay Science, 2020, 193, 105637.	5.1	2 7 6 4 1 27 23
 345 346 347 348 349 350 351 352 	Biologically Active Compounds Form Seafood Processing By-Products., 2014,, 299-311. Introduction to Seafood Processing By-products., 2014,, 1-9. Transformation of Seafood Wastes into Chemicals and Materials., 2018,, 1-23. Transformation of Seafood Wastes into Chemicals and Materials., 2019,, 461-482. Functional Chitosan Carriers for Oral Colon-Specific Drug Delivery., 2019,, 135-161. In situ generation of silver nanoparticles and nanocomposite films based on electrodeposition of carboxylated chitosan. Carbohydrate Polymers, 2020, 242, 116391. Synthesis of carboxymethyl chitosan as an eco-friendly amphoteric shale inhibitor in water-based drilling fluid and an assessment of its inhibition mechanism. Applied Clay Science, 2020, 193, 105637. Design of a biodegradable UV-irradiated gelatin-chitosan/nanocomposed membrane with osteogenic ability for application in bone regeneration. Materials Science and Engineering C, 2019, 99, 875-886.	5.1 2.6 3.8	2 7 6 4 1 27 23 34

#	Article	IF	Citations
354	Electrospinning Gelatin/Chitosan/Hydroxyapatite/Graphene Oxide Composite Nanofibers with Antibacterial Properties. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2015, 30, 516.	0.6	2
355	Recent Advances in Designing Hydrogels from Chitin and Chitin-Derivatives and their Impact on Environment and Agriculture: A Review. Revista Virtual De Quimica, 2017, 9, 370-386.	0.1	33
356	Chitosan Nanoparticles as a Novel Drug Delivery System: A Review Article. Current Drug Targets, 2020, 21, 1613-1624.	1.0	32
357	An Overview of Chitosan Nanofibers and their Applications in the Drug Delivery Process. Current Drug Delivery, 2019, 16, 272-294.	0.8	54
358	Novel Drug Delivery Systems Fighting Glaucoma: Formulation Obstacles and Solutions. Pharmaceutics, 2021, 13, 28.	2.0	30
359	Applications of Chitin in Medical, Environmental, and Agricultural Industries. Journal of Marine Science and Engineering, 2021, 9, 1173.	1.2	15
360	Methacryloyl-GlcNAc Derivatives Copolymerized with Dimethacrylamide as a Novel Antibacterial and Biocompatible Coating. Pharmaceutics, 2021, 13, 1647.	2.0	4
361	Preparation and Properties of Monodisperse pH-Responsive Microgels. , 2013, , 155-170.		0
362	Encapsulation Field Polymers: Fourier Transform Infrared Spectroscopy (FTIR). , 0, , 3277-3293.		0
363	Drug Delivery Applications of Chitosan. , 2017, , 305-349.		0
364	Application of Marine Polymers in Dye and Textile Industries. , 2017, , 577-589.		0
365	Application of Marine Polymers in Dye and Textile Industries. , 2017, , 577-589.		0
366	Skin Tissue Engineering. , 2017, , 1408-1423.		0
367	Polymer blends, IPNs, gels, composites, and nanocomposites from chitin and chitosan; manufacturing, and applications. , 2020, , 1-41.		0
368	Chemically modified chitin, chitosan, and chitinous polymers as biomaterials. , 2020, , 43-69.		5
369	Study of double-bonded carboxymethyl chitosan/cysteamine-modified chondroitin sulfate composite dressing for hemostatic application. European Polymer Journal, 2022, 162, 110875.	2.6	18
370	Adsorption of Pharmaceutical Contaminants from Aqueous Solutions Using N,O-Carboxymethyl Chitosan/Polyethylene Oxide (PEO) Electrospun Nanofibers. Journal of Materials Science and Chemical Engineering, 2021, 09, 15-38.	0.2	3
372	Preparation, biocompatibility, and wound healing effects of O-carboxymethyl chitosan nonwoven fabrics in partial-thickness burn model. Carbohydrate Polymers, 2022, 280, 119032.	5.1	16

		CITATION REP	ORT	
#	ARTICLE Polysaccharide-derivative coated intravascular catheters with superior multifunctional performance	5	IF	CITATIONS
373	via simple and biocompatible method. Chemical Engineering Journal, 2022, 433, 134565.		6.6	13
375	Surface Property Modification of Collagen, Hyaluronic Acid, and Chitosan Films with the Neodymiu Laser. Polysaccharides, 2022, 3, 178-187.	m	2.1	3
376	Polymer nanocomposites for biomedical applications. , 2022, , 175-215.			8
377	Hybrid chitosan-based nanoparticulate systems for drug delivery. , 2022, , 129-164.			1
378	Marine Polysaccharides in Pharmaceutical Uses. , 2022, , 745-779.			2
379	Graphene oxide-chitosan composite material as adsorbent in removing methylene blue dye from synthetic wastewater. Materials Today: Proceedings, 2022, 64, 1587-1596.		0.9	11
381	Injectable multifunctional CMC/HA-DA hydrogel for repairing skin injury. Materials Today Bio, 2022 100257.	,14,	2.6	30
382	Physicochemical and Photocatalytic Properties under Visible Light of ZnO-Bentonite/Chitosan Hybrid-Biocompositefor Water Remediation. Nanomaterials, 2022, 12, 102.		1.9	8
383	Effects of carboxymethyl chitosan adsorption on bioactive components of Antarctic krill oil. Food Chemistry, 2022, 388, 132995.		4.2	7
384	Preparation of Novel ICT-CMC-CD59sp Drug-Loaded Microspheres and Targeting Anti-Tumor Effect Oral Squamous Cell Carcinoma. Frontiers in Bioengineering and Biotechnology, 2022, 10, 878456.	on	2.0	1
385	The first selenium containing chitin and chitosan derivatives: Combined synthetic, catalytic and biological studies. International Journal of Biological Macromolecules, 2022, 209, 2175-2187.		3.6	8
386	A review on challenges and issues with carboxymethylation of natural gums: The widely used excipients for conventional and novel dosage forms. International Journal of Biological Macromolecules, 2022, 209, 2197-2212.		3.6	14
387	Synthesis and in vitro antifungal activity of selenium-containing chitin derivatives. Mendeleev Communications, 2022, 32, 357-359.		0.6	2
388	Recent advances of chitosan-based polymers in biomedical applications and environmental protect Journal of Polymer Research, 2022, 29, .	ion.	1.2	37
389	Carboxymethyl chitosan and carboxymethyl cellulose based self-healing hydrogel for accelerating diabetic wound healing. Carbohydrate Polymers, 2022, 292, 119687.		5.1	46
390	Crossing Phylums: Butterfly Wing as a Natural Perfusable Three-Dimensional (3D) Bioconstruct for Bone Tissue Engineering. Journal of Functional Biomaterials, 2022, 13, 68.		1.8	4
391	Preparation and properties of monomethoxyl polyethylene glycol grafted O-carboxymethyl chitosa for edible, fresh-keeping packaging materials. Food Packaging and Shelf Life, 2022, 33, 100874.	1	3.3	8
392	Promising application of polyoxometalates in the treatment of cancer, infectious diseases and Alzheimer's disease. Journal of Biological Inorganic Chemistry, 2022, 27, 405-419.		1.1	14

#	Article	IF	CITATIONS
393	Chitin and Chitosan: Prospective Biomedical Applications in Drug Delivery, Cancer Treatment, and Wound Healing. Marine Drugs, 2022, 20, 460.	2.2	58
394	Role of chitosan in titanium coatings. trends and new generations of coatings. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	13
395	Natural Polymerâ€Derived Bioscaffolds for Peripheral Nerve Regeneration. Advanced Functional Materials, 2022, 32, .	7.8	21
396	Effect of molecular structure and ionization state on aggregation of carboxymethyl chitosan: A molecular dynamics study. Carbohydrate Polymers, 2022, 297, 119993.	5.1	7
397	Strategies to improve bioactive and antibacterial properties of polyetheretherketone (PEEK) for use as orthopedic implants. Materials Today Bio, 2022, 16, 100402.	2.6	36
398	Fabrication and evaluation of poly (vinyl alcohol)/gelatin fibrous scaffold containing ZnO nanoparticles for skin tissue engineering applications. Materials Today Communications, 2022, 33, 104476.	0.9	5
399	Dopamine-modified chitosan hydrogel for spinal cord injury. Carbohydrate Polymers, 2022, 298, 120047.	5.1	25
400	Eye in metabolic disorders: manifestations and drug delivery systems. , 2022, , 371-409.		0
401	Conclusion and Future Prospects of Chitosan-Based Nanocomposites. , 2022, , 305-341.		1
402	Introduction to Chitosan and Chitosan-Based Nanocomposites. , 2022, , 1-51.		1
402 403	Introduction to Chitosan and Chitosan-Based Nanocomposites. , 2022, , 1-51. Multifunctional Role of Chitosan in Farm Animals: A Comprehensive Review. Annals of Animal Science, 2023, 23, 69-86.	0.6	1
402 403 404	Introduction to Chitosan and Chitosan-Based Nanocomposites. , 2022, , 1-51. Multifunctional Role of Chitosan in Farm Animals: A Comprehensive Review. Annals of Animal Science, 2023, 23, 69-86. Recent Advances of Chitosan Formulations in Biomedical Applications. International Journal of Molecular Sciences, 2022, 23, 10975.	0.6	1 5 49
402 403 404 405	Introduction to Chitosan and Chitosan-Based Nanocomposites., 2022,, 1-51. Multifunctional Role of Chitosan in Farm Animals: A Comprehensive Review. Annals of Animal Science, 2023, 23, 69-86. Recent Advances of Chitosan Formulations in Biomedical Applications. International Journal of Molecular Sciences, 2022, 23, 10975. L-Cysteine Modified Chitosan Nanoparticles and Carbon-Based Nanostructures for the Intranasal Delivery of Galantamine. Polymers, 2022, 14, 4004.	0.6 1.8 2.0	1 5 49 4
402 403 404 405	Introduction to Chitosan and Chitosan-Based Nanocomposites. , 2022, , 1-51. Multifunctional Role of Chitosan in Farm Animals: A Comprehensive Review. Annals of Animal Science, 2023, 23, 69-86. Recent Advances of Chitosan Formulations in Biomedical Applications. International Journal of Molecular Sciences, 2022, 23, 10975. L-Cysteine Modified Chitosan Nanoparticles and Carbon-Based Nanostructures for the Intranasal Delivery of Galantamine. Polymers, 2022, 14, 4004. Synthesis of a biocompatible benzophenone-substituted chitosan hydrogel as novel coating for PEEK with extraordinary strong antibacterial and anti-biofilm properties. Materials Today Chemistry, 2022, 26, 101176.	0.6 1.8 2.0 1.7	1 5 49 4
402 403 404 405 406	Introduction to Chitosan and Chitosan-Based Nanocomposites. , 2022, , 1-51. Multifunctional Role of Chitosan in Farm Animals: A Comprehensive Review. Annals of Animal Science, 2023, 23, 69-86. Recent Advances of Chitosan Formulations in Biomedical Applications. International Journal of Molecular Sciences, 2022, 23, 10975. L-Cysteine Modified Chitosan Nanoparticles and Carbon-Based Nanostructures for the Intranasal Delivery of Galantamine. Polymers, 2022, 14, 4004. Synthesis of a biocompatible benzophenone-substituted chitosan hydrogel as novel coating for PEEK with extraordinary strong antibacterial and anti-biofilm properties. Materials Today Chemistry, 2022, 26, 101176. Biopolymers and their derivatives: Key components of advanced biomedical technologies. Biotechnology Advances, 2022, 61, 108056.	0.6 1.8 2.0 1.7 6.0	1 5 49 4 6 22
402 403 404 405 406 407	Introduction to Chitosan and Chitosan-Based Nanocomposites. , 2022, , 1-51. Multifunctional Role of Chitosan in Farm Animals: A Comprehensive Review. Annals of Animal Science, 2023, 23, 69-86. Recent Advances of Chitosan Formulations in Biomedical Applications. International Journal of Molecular Sciences, 2022, 23, 10975. L-Cysteine Modified Chitosan Nanoparticles and Carbon-Based Nanostructures for the Intranasal Delivery of Galantamine. Polymers, 2022, 14, 4004. Synthesis of a biocompatible benzophenone-substituted chitosan hydrogel as novel coating for PEEK with extraordinary strong antibacterial and anti-biofilm properties. Materials Today Chemistry, 2022, 26, 101176. Biopolymers and their derivatives: Key components of advanced biomedical technologies. Biotechnology Advances, 2022, 61, 108056. Synthesis and characterization of protocatechuic acid grafted carboxymethyl chitosan with oxidized sodium alginate hydrogel through the Schiff's base reaction. International Journal of Biological Macromolecules, 2022, 222, 2581-2593.	0.6 1.8 2.0 1.7 6.0 3.6	1 5 49 4 6 22 18
 402 403 404 405 406 407 408 409 	Introduction to Chitosan and Chitosan-Based Nanocomposites. , 2022, , 1-51. Multifunctional Role of Chitosan in Farm Animals: A Comprehensive Review. Annals of Animal Science, 2023, 23, 69-86. Recent Advances of Chitosan Formulations in Biomedical Applications. International Journal of Molecular Sciences, 2022, 23, 10975. L-Cysteine Modified Chitosan Nanoparticles and Carbon-Based Nanostructures for the Intranasal Delivery of Galantamine. Polymers, 2022, 14, 4004. Synthesis of a biocompatible benzophenone-substituted chitosan hydrogel as novel coating for PEEK with extraordinary strong antibacterial and anti-biofilm properties. Materials Today Chemistry, 2022, 26, 101176. Biopolymers and their derivatives: Key components of advanced biomedical technologies. Biotechnology Advances, 2022, 61, 108056. Synthesis and characterization of protocatechuic acid grafted carboxymethyl chitosan with oxidized sodium alginate hydrogel through the Schiff's base reaction. International Journal of Biological Macromolecules, 2022, 222, 2581-2593. In Vitro Studies of Chitosan/PVA/Methylcelluloseã€"Silver Nanocomposites Scaffolds Using L929 Fibroblast Cells. Materials Horizons, 2022, 2, 281-304.	0.6 1.8 2.0 1.7 6.0 3.6 0.3	1 5 49 4 6 22 18

#	Article	IF	CITATIONS
411	Solvent-free synthesis of polysaccharide derivatives <i>via</i> heterogeneous Schiff base chemistry. Green Chemistry, 2023, 25, 922-927.	4.6	5
412	Carboxymethyl chitin and chitosan derivatives: Synthesis, characterization and antibacterial activity. Carbohydrate Polymer Technologies and Applications, 2023, 5, 100283.	1.6	5
413	A review on extraction of polysaccharides from crustacean wastes and their environmental applications. Environmental Research, 2023, 221, 115306.	3.7	9
414	Biodegradable, anti-freezing and self-healable hydrogel mulch film for weed control. Chemical Engineering Journal, 2023, 462, 142211.	6.6	7
415	Chitosan-based hemostatic sponges as new generation hemostatic materials for uncontrolled bleeding emergency: Modification, composition, and applications. Carbohydrate Polymers, 2023, 311, 120780.	5.1	12
416	Tailoring the performance of boehmite nanoparticles reinforced carboxymethyl chitosan/cashew gum blend nanocomposites via green synthesis. Polymer, 2023, 268, 125706.	1.8	16
417	Konjac glucomannan films with Pickering emulsion stabilized by TEMPO-oxidized chitin nanocrystal for active food packaging. Food Hydrocolloids, 2023, 139, 108539.	5.6	21
418	Polysaccharide-Based Multifunctional Hydrogel Bio-Adhesives for Wound Healing: A Review. Gels, 2023, 9, 138.	2.1	32
419	Biomedical Applications of Chitin. , 2023, , 1-28.		0
420	High-tensile chitin films regenerated from cryogenic aqueous phosphoric acid. Carbohydrate Polymers, 2023, 312, 120826.	5.1	2
421	Double-Network Chitosan-Based Hydrogels with Improved Mechanical, Conductive, Antimicrobial, and Antibiofouling Properties. Gels, 2023, 9, 278.	2.1	8
422	Chitosan-Based Hybrid Dressing Materials for Treatment of Diabetic Wounds. Biological and Medical Physics Series, 2023, , 201-219.	0.3	1
423	Additive manufacturing of hydroxyapatite-based composites for bioengineering applications. Bioprinting, 2023, 32, e00278.	2.9	3
425	Biomedical Applications of Chitin. , 2023, , 685-712.		0
431	Functionalized Carboxymethyl Chitosan Derivatives in Wound Healing. Advances in Polymer Science, 2023, , .	0.4	0
432	Preparation of Different Types of Carboxymethyl Chitosan Derivatives. Advances in Polymer Science, 2023, , .	0.4	0
435	Carboxymethyl Chitosan Derivatives in Blood Clotting. Advances in Polymer Science, 2023, , .	0.4	0
438	Electrospinning of Carboxymethyl Chitosan Derivatives-Based Nanofibers and Its Applications. Advances in Polymer Science, 2023	0.4	0

#	Article	IF	CITATIONS
446	Use of Smart Silver Nanoparticles in Drug Delivery System. , 2024, , 213-241.		0
451	Biomedical Applications of Chitin, Chitosan, Their Derivatives, and Processing By-Products from Fish Waste. , 2024, , 279-300.		0