

Xi-Guang Chen

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149
papers

5,338
citations

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h-index

67
g-index

153
ext. papers

6,316
ext. citations

7.2
avg, IF

5.94
L-index

#	Paper	IF	Citations
149	Chemical characteristics of O-carboxymethyl chitosans related to the preparation conditions. <i>Carbohydrate Polymers</i> , 2003 , 53, 355-359	10.3	586
148	Effect of MW and concentration of chitosan on antibacterial activity of Escherichia coli. <i>Carbohydrate Polymers</i> , 2006 , 64, 60-65	10.3	332
147	Antibacterial mechanism of chitosan microspheres in a solid dispersing system against E. coli. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008 , 65, 197-202	6	217
146	The effect of carboxymethyl-chitosan on proliferation and collagen secretion of normal and keloid skin fibroblasts. <i>Biomaterials</i> , 2002 , 23, 4609-14	15.6	189
145	Chitosan/o-carboxymethyl chitosan nanoparticles for efficient and safe oral anticancer drug delivery: in vitro and in vivo evaluation. <i>International Journal of Pharmaceutics</i> , 2013 , 457, 158-67	6.5	169
144	Effect of molecular weight and degree of chitosan deacetylation on the preparation and characteristics of chitosan thermosensitive hydrogel as a delivery system. <i>Carbohydrate Polymers</i> , 2008 , 73, 265-273	10.3	163
143	Linolenic acid-modified chitosan for formation of self-assembled nanoparticles. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 437-41	5.7	149
142	O/W emulsification for the self-aggregation and nanoparticle formation of linoleic acid-modified chitosan in the aqueous system. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 3135-9	5.7	138
141	A Peptide-Network Weaved Nanoplatform with Tumor Microenvironment Responsiveness and Deep Tissue Penetration Capability for Cancer Therapy. <i>Advanced Materials</i> , 2015 , 27, 5034-42	24	119
140	Preparation of composite hydroxybutyl chitosan sponge and its role in promoting wound healing. <i>Carbohydrate Polymers</i> , 2018 , 184, 154-163	10.3	97
139	Surface charge effect on mucoadhesion of chitosan based nanogels for local anti-colorectal cancer drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 128, 439-447	6	77
138	Preparation and biocompatibility of chitosan microcarriers as biomaterial. <i>Biochemical Engineering Journal</i> , 2006 , 27, 269-274	4.2	74
137	Molecular affinity and permeability of different molecular weight chitosan membranes. <i>Journal of Agricultural and Food Chemistry</i> , 2002 , 50, 5915-8	5.7	73
136	Advances and applications of chitosan-based nanomaterials as oral delivery carriers: A review. <i>International Journal of Biological Macromolecules</i> , 2020 , 154, 433-445	7.9	68
135	Mechanism of surface charge triggered intestinal epithelial tight junction opening upon chitosan nanoparticles for insulin oral delivery. <i>Carbohydrate Polymers</i> , 2017 , 157, 596-602	10.3	68
134	Positive/negative surface charge of chitosan based nanogels and its potential influence on oral insulin delivery. <i>Carbohydrate Polymers</i> , 2016 , 136, 867-74	10.3	64
133	Chitosan based nanoparticles as protein carriers for efficient oral antigen delivery. <i>International Journal of Biological Macromolecules</i> , 2016 , 91, 716-23	7.9	60

132	Multifunctional quercetin conjugated chitosan nano-micelles with P-gp inhibition and permeation enhancement of anticancer drug. <i>Carbohydrate Polymers</i> , 2019 , 203, 10-18	10.3	57
131	Biomaterials based on N,N,N-trimethyl chitosan fibers in wound dressing applications. <i>International Journal of Biological Macromolecules</i> , 2016 , 89, 471-6	7.9	56
130	Immobilization of coacervate microcapsules in multilayer sodium alginate beads for efficient oral anticancer drug delivery. <i>Biomacromolecules</i> , 2014 , 15, 985-96	6.9	56
129	Construction of hyaluronic acid noisome as functional transdermal nanocarrier for tumor therapy. <i>Carbohydrate Polymers</i> , 2013 , 94, 634-41	10.3	56
128	Nanoparticles/thermosensitive hydrogel reinforced with chitin whiskers as a wound dressing for treating chronic wounds. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 3172-3185	7.3	55
127	Preparation and antibacterial activity of chitosan microspheres in a solid dispersing system. <i>Frontiers of Materials Science in China</i> , 2008 , 2, 214-220		53
126	Preparation of biocompatible chitosan grafted poly(lactic acid) nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 221-7	7.9	52
125	Study on poly(vinyl alcohol)/carboxymethyl-chitosan blend film as local drug delivery system. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1125-33	4.5	52
124	Construction of physical-crosslink chitosan/PVA double-network hydrogel with surface mineralization for bone repair. <i>Carbohydrate Polymers</i> , 2019 , 224, 115176	10.3	51
123	Transport mechanism of doxorubicin loaded chitosan based nanogels across intestinal epithelium. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014 , 87, 197-207	5.7	49
122	Aggregation of hydrophobically modified chitosan in solution and at the air/water interface. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 1968-1973	2.9	49
121	Enhanced transdermal lymphatic delivery of doxorubicin via hyaluronic acid based transfersomes/microneedle complex for tumor metastasis therapy. <i>International Journal of Biological Macromolecules</i> , 2019 , 125, 9-16	7.9	49
120	In vitro and in vivo evaluation of chitosan microspheres with different deacetylation degree as potential embolic agent. <i>Carbohydrate Polymers</i> , 2014 , 113, 304-13	10.3	48
119	Research status of self-healing hydrogel for wound management: A review. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 2108-2123	7.9	44
118	Improving the osteogenesis of rat mesenchymal stem cells by chitosan-based-microRNA nanoparticles. <i>Carbohydrate Polymers</i> , 2016 , 138, 49-58	10.3	42
117	Glucose-conjugated chitosan nanoparticles for targeted drug delivery and their specific interaction with tumor cells. <i>Frontiers of Materials Science</i> , 2014 , 8, 363-372	2.5	41
116	Tumor Microenvironmental pH and Enzyme Dual Responsive Polymer-Liposomes for Synergistic Treatment of Cancer Immuno-Chemotherapy. <i>Biomacromolecules</i> , 2019 , 20, 882-892	6.9	39
115	Multifunctional chitosan/dopamine/diatom-biosilica composite beads for rapid blood coagulation. <i>Carbohydrate Polymers</i> , 2018 , 200, 6-14	10.3	37

114	Dynamic disordering of liposomal cocktails and the spatio-temporal favorable release of cargoes to circumvent drug resistance. <i>Biomaterials</i> , 2014 , 35, 3406-15	15.6	37
113	Design and investigation of nanoemulsified carrier based on amphiphile-modified hyaluronic acid. <i>Carbohydrate Polymers</i> , 2011 , 83, 462-469	10.3	37
112	Enhanced transdermal lymphatic drug delivery of hyaluronic acid modified transfersomes for tumor metastasis therapy. <i>Chemical Communications</i> , 2015 , 51, 1453-6	5.8	36
111	In situ controlled release of stromal cell-derived factor-1 and anti-miR-138 for on-demand cranial bone regeneration. <i>Carbohydrate Polymers</i> , 2018 , 182, 215-224	10.3	36
110	Inducing sustained release and improving oral bioavailability of curcumin via chitosan derivatives-coated liposomes. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 702-710	7.9	35
109	A thermosensitive hydroxybutyl chitosan hydrogel as a potential co-delivery matrix for drugs on keloid inhibition. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 3936-3944	7.3	34
108	The toughness chitosan-PVA double network hydrogel based on alkali solution system and hydrogen bonding for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2020 , 146, 99-109	7.9	34
107	A novel pH-responsive quaternary ammonium chitosan-liposome nanoparticles for periodontal treatment. <i>International Journal of Biological Macromolecules</i> , 2019 , 129, 1113-1119	7.9	34
106	Mechanically and functionally strengthened tissue adhesive of chitin whisker complexed chitosan/dextran derivatives based hydrogel. <i>Carbohydrate Polymers</i> , 2020 , 237, 116138	10.3	33
105	Chitosan-Based Thermo/pH Double Sensitive Hydrogel for Controlled Drug Delivery. <i>Macromolecular Bioscience</i> , 2018 , 18, 1700305	5.5	33
104	Hydroxybutyl chitosan/diatom-biosilica composite sponge for hemorrhage control. <i>Carbohydrate Polymers</i> , 2020 , 236, 116051	10.3	32
103	Surface fluid-swelling chitosan fiber as the wound dressing material. <i>Carbohydrate Polymers</i> , 2016 , 136, 860-6	10.3	32
102	Preparation, characterization, and antibacterial activity of oleic acid-grafted chitosan oligosaccharide nanoparticles. <i>Frontiers of Biology in China: Selected Publications From Chinese Universities</i> , 2009 , 4, 321-327		32
101	Nano-polyplex based on oleoyl-carboxymethyl-chitosan (OCMCS) and hyaluronic acid for oral gene vaccine delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 145, 492-501	6	32
100	Preparation and characterization of a novel thermosensitive nanoparticle for drug delivery in combined hyperthermia and chemotherapy. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 6442-6448	7.3	31
99	Tough chitosan hydrogel based on purified regeneration and alkaline solvent as biomaterials for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 224-231	7.9	30
98	Molecular structural transformation regulated dynamic disordering of supramolecular vesicles as pH-responsive drug release systems. <i>Journal of Controlled Release</i> , 2014 , 173, 140-7	11.7	30
97	Self-assembled nanoparticles based on linoleic-acid modified carboxymethyl-chitosan as carrier of adriamycin (ADR). <i>Current Applied Physics</i> , 2007 , 7, e125-e129	2.6	30

96	The influence of solvent formulations on thermosensitive hydroxybutyl chitosan hydrogel as a potential delivery matrix for cell therapy. <i>Carbohydrate Polymers</i> , 2017 , 170, 80-88	10.3	29
95	Different chemical groups modification on the surface of chitosan nonwoven dressing and the hemostatic properties. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 463-469	7.9	29
94	Investigation of acetylated chitosan microspheres as potential chemoembolic agents. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 123, 387-94	6	29
93	Multilayer sodium alginate beads with porous core containing chitosan based nanoparticles for oral delivery of anticancer drug. <i>International Journal of Biological Macromolecules</i> , 2016 , 85, 1-8	7.9	28
92	Mussel-inspired antibacterial polydopamine/chitosan/temperature-responsive hydrogels for rapid hemostasis. <i>International Journal of Biological Macromolecules</i> , 2019 , 138, 321-333	7.9	28
91	Preparation of chitosan-based thermosensitive hydrogels for drug delivery. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 1509-1515	2.9	28
90	Chitosan/Diatom-Biosilica Aerogel with Controlled Porous Structure for Rapid Hemostasis. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000951	10.1	28
89	Investigation of gelling behavior of thiolated chitosan in alkaline condition and its application in stent coating. <i>Carbohydrate Polymers</i> , 2016 , 136, 307-15	10.3	27
88	3-D culture of human umbilical vein endothelial cells with reversible thermosensitive hydroxybutyl chitosan hydrogel. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 1781-7	4.5	26
87	pH-sensitive amphiphilic chitosan-quercetin conjugate for intracellular delivery of doxorubicin enhancement. <i>Carbohydrate Polymers</i> , 2019 , 223, 115072	10.3	25
86	Construction of multilayer alginate hydrogel beads for oral delivery of probiotics cells. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 924-930	7.9	25
85	Preparation of H-oleoyl-carboxymethyl-chitosan and the function as a coagulation agent for residual oil in aqueous system. <i>Frontiers of Materials Science in China</i> , 2008 , 2, 105-112		25
84	Biosynthetic calcium-doped biosilica with multiple hemostatic properties for hemorrhage control. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 7834-7841	7.3	24
83	Influence of the graft density of hydrophobic groups on thermo-responsive nanoparticles for anti-cancer drugs delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 148, 147-156	6	23
82	Transdermal delivery of 10,11-methylenedioxycompotohecin by hyaluronic acid based nanoemulsion for inhibition of keloid fibroblast. <i>Carbohydrate Polymers</i> , 2014 , 112, 376-86	10.3	22
81	A thermosensitive RGD-modified hydroxybutyl chitosan hydrogel as a 3D scaffold for BMSCs culture on keloid treatment. <i>International Journal of Biological Macromolecules</i> , 2019 , 125, 78-86	7.9	22
80	Systematic investigation of fabrication conditions of nanocarrier based on carboxymethyl chitosan for sustained release of insulin. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 468-474	7.9	21
79	pH-Activated nanoparticles with targeting for the treatment of oral plaque biofilm. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 586-592	7.3	21

78	Controlled drug release through carboxymethyl-chitosan/poly(vinyl alcohol) blend films. <i>Polymer Engineering and Science</i> , 2007 , 47, 1373-1379	2.3	21
77	A surface charge dependent enhanced Th1 antigen-specific immune response in lymph nodes by transfersome-based nanovaccine-loaded dissolving microneedle-assisted transdermal immunization. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 4854-4866	7.3	20
76	Preparation and characterization of mucosal adhesive and two-step drug releasing cetirizine-chitosan nanoparticle. <i>Carbohydrate Polymers</i> , 2017 , 173, 600-609	10.3	19
75	Spatial-temporal event adaptive characteristics of nanocarrier drug delivery in cancer therapy. <i>Journal of Controlled Release</i> , 2013 , 172, 281-291	11.7	19
74	Hydroxybutyl Chitosan Centered Biocomposites for Potential Curative Applications: A Critical Review. <i>Biomacromolecules</i> , 2020 , 21, 1351-1367	6.9	18
73	Multilayer micro-dispersing system as oral carriers for co-delivery of doxorubicin hydrochloride and P-gp inhibitor. <i>International Journal of Biological Macromolecules</i> , 2017 , 94, 170-180	7.9	18
72	Temperature responsive self-assembled hydroxybutyl chitosan nanohydrogel based on homogeneous reaction for smart window. <i>Carbohydrate Polymers</i> , 2020 , 229, 115557	10.3	18
71	The green and stable dissolving system based on KOH/urea for homogeneous chemical modification of chitosan. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 1103-1110	7.9	18
70	Chitosan based nanogels stepwise response to intracellular delivery kinetics for enhanced delivery of doxorubicin. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 157-164	7.9	17
69	Applications of chitosan-based biomaterials: a focus on dependent antimicrobial properties. <i>Marine Life Science and Technology</i> , 2020 , 2, 398-413	4.5	17
68	Reverse immune suppressive microenvironment in tumor draining lymph nodes to enhance anti-PD1 immunotherapy via nanovaccine complexed microneedle. <i>Nano Research</i> , 2020 , 13, 1509-1518	10	17
67	Reinforcement of thermoplastic chitosan hydrogel using chitin whiskers optimized with response surface methodology. <i>Carbohydrate Polymers</i> , 2018 , 189, 280-288	10.3	17
66	Molecular weight-dependent antifungal activity and action mode of chitosan against <i>Fulvia fulva</i> (cooke) ciffrii. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 3127-3135	2.9	17
65	In vitro and in vivo evaluation of 3D biodegradable thermo/pH sensitive sol-gel reversible hydroxybutyl chitosan hydrogel. <i>Materials Science and Engineering C</i> , 2020 , 108, 110419	8.3	17
64	A thermosensitive chitosan-based hydrogel for controlled release of insulin. <i>Frontiers of Materials Science</i> , 2014 , 8, 142-149	2.5	16
63	Preparation and characterization of chitosan from crab shell (<i>Portunus trituberculatus</i>) by NaOH/urea solution freeze-thaw pretreatment procedure. <i>International Journal of Biological Macromolecules</i> , 2020 , 147, 931-936	7.9	16
62	Mussel-inspired adhesive and polypeptide-based antibacterial thermo-sensitive hydroxybutyl chitosan hydrogel as BMSCs 3D culture matrix for wound healing. <i>Carbohydrate Polymers</i> , 2021 , 261, 117878	10.3	16
61	Recent trends on burn wound care: hydrogel dressings and scaffolds. <i>Biomaterials Science</i> , 2021 , 9, 4523-4540	7.4	16

60	Development of alginate hydrogel/gum Arabic/gelatin based composite capsules and their application as oral delivery carriers for antioxidant. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 1090-1097	7.9	15
59	Thermo/photo dual-crosslinking chitosan-gelatin methacrylate hydrogel with controlled shrinking property for contraction fabrication. <i>Carbohydrate Polymers</i> , 2020 , 236, 116067	10.3	15
58	The temperature-responsive hydroxybutyl chitosan hydrogels with polydopamine coating for cell sheet transplantation. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 152-158	7.9	15
57	Thermo-responsive hydroxybutyl chitosan hydrogel as artery intervention embolic agent for hemorrhage control. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 566-574	7.9	15
56	Isolation of fucoxanthin from <i>Sargassum thunbergii</i> and preparation of microcapsules based on palm stearin solid lipid core. <i>Frontiers of Materials Science</i> , 2017 , 11, 66-74	2.5	14
55	Nasal adaptive chitosan-based nano-vehicles for anti-allergic drug delivery. <i>International Journal of Biological Macromolecules</i> , 2019 , 135, 1182-1192	7.9	14
54	Preparation and property of layer-by-layer alginate hydrogel beads based on multi-phase emulsion technique. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 62, 217-226	2.3	14
53	Biocompatibility and characteristics of chitosan/cellulose acetate microspheres for drug delivery. <i>Frontiers of Materials Science</i> , 2011 , 5, 367-378	2.5	14
52	Effects of hydroxybutyl chitosan on improving immunocompetence and antibacterial activities. <i>Materials Science and Engineering C</i> , 2019 , 105, 110086	8.3	13
51	Determination and quantitative analysis of acetoin in beer with headspace sampling-gas chromatography. <i>Food Chemistry</i> , 2009 , 112, 1079-1083	8.5	13
50	Optimization of the preparation conditions of thermo-sensitive chitosan hydrogel in heterogeneous reaction using response surface methodology. <i>International Journal of Biological Macromolecules</i> , 2019 , 121, 293-300	7.9	13
49	Simply constructed chitosan nanocarriers with precise spatiotemporal control for efficient intracellular drug delivery. <i>Carbohydrate Polymers</i> , 2017 , 169, 341-350	10.3	12
48	Improvement of fucoxanthin oral efficacy via vehicles based on gum Arabic, gelatin and alginate hydrogel. <i>Journal of Functional Foods</i> , 2019 , 63, 103573	5.1	12
47	Preparation and hydrolytic erosion of differently structured PLGA nanoparticles with chitosan modification. <i>International Journal of Biological Macromolecules</i> , 2013 , 54, 174-9	7.9	12
46	Drying of micro-encapsulated lactic acid bacteria Effects of trehalose and immobilization on cell survival and release properties. <i>Journal of Ocean University of China</i> , 2009 , 8, 39-44	1	12
45	Nanomaterials as Smart Immunomodulator Delivery System for Enhanced Cancer Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 4774-4798	5.5	12
44	Evaluation of structure transformation and biocompatibility of chitosan in alkali/urea dissolution system for its large-scale application. <i>International Journal of Biological Macromolecules</i> , 2020 , 154, 758-764	7.9	11
43	A multi-responsive biomimetic nano-complex platform for enhanced gene delivery. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 5910-5921	7.3	10

42	Gastric environment-stable oral nanocarriers for in situ colorectal cancer therapy. <i>International Journal of Biological Macromolecules</i> , 2019 , 139, 1035-1045	7.9	10
41	Controlled release behaviors of chitosan/β-glycerophosphate thermo-sensitive hydrogels. <i>Frontiers of Materials Science</i> , 2012 , 6, 250-258	2.5	10
40	The effect of carboxymethyl-chitosan nanoparticles on proliferation of keloid fibroblast. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2011 , 6, 31-37		10
39	Chitosan-based self-assembled nanomaterials: Their application in drug delivery. <i>View</i> , 2021 , 2, 20200069.8	6.8	10
38	Solubility of Rofecoxib in the Presence of Aqueous Solutions of Glycerol, Propylene Glycol, Ethanol, Span 20, Tween 80, and Sodium Lauryl Sulfate at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 2061-2064	2.8	9
37	The Novel Medical Thermoresponsive Hydrogel Derived from Chitosan. <i>Current Organic Chemistry</i> , 2018 , 22, 620-627	1.7	9
36	Development and application of fish scale wastes as versatile natural biomaterials. <i>Chemical Engineering Journal</i> , 2022 , 428, 131102	14.7	9
35	Development of part-dissolvable chitosan fibers with surface N-succinylation for wound care dressing. <i>Frontiers of Materials Science</i> , 2015 , 9, 272-281	2.5	8
34	Preparation and antithrombotic activity identification of <i>Perinereis aibuhitensis</i> extract: a high temperature and wide pH range stable biological agent. <i>Food and Function</i> , 2017 , 8, 3533-3541	6.1	8
33	Characteristics and degradation of chitosan/cellulose acetate microspheres with different model drugs. <i>Frontiers of Materials Science in China</i> , 2008 , 2, 417-425		8
32	Synthesis and characterization of chitosan-based biomaterials modified with different active groups and their relationship with cytotoxicity. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2007 , 22, 695-700	1	7
31	Quantitative evaluation of the antibacterial effectiveness and efficiency of chitosan considering the effect of neutralization. <i>Carbohydrate Polymers</i> , 2021 , 265, 117918	10.3	7
30	Chitosan and β-cyclodextrin microspheres as pulmonary sustained delivery systems. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008 , 23, 541-546	1	6
29	A composite sponge based on alkylated chitosan and diatom-biosilica for rapid hemostasis. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 2097-2107	7.9	6
28	In vitro heterogeneous degradation of alginate and its validation of different molecular weight on blood bio-compatibility. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017 , 28, 380-393	3.5	5
27	Collagen-based biocomposites inspired by bone hierarchical structures for advanced bone regeneration: ongoing research and perspectives. <i>Biomaterials Science</i> , 2021 ,	7.4	5
26	Thrombin immobilized polydopamine-diatom biosilica for effective hemorrhage control. <i>Biomaterials Science</i> , 2021 , 9, 4952-4967	7.4	5
25	Systematic comparisons of dissolving and swelling hyaluronic acid microneedles in transdermal drug delivery. <i>International Journal of Biological Macromolecules</i> , 2021 , 191, 783-791	7.9	5

24	Sodium carboxymethylation-functionalized chitosan fibers for cutaneous wound healing application. <i>Frontiers of Materials Science</i> , 2016 , 10, 358-366	2.5	4
23	Influence of Lactobacillus E1 on the storage stability in emulsion immobilization. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2009 , 24, 75-80	1	4
22	Effect of UV-B radiation on ingesting and nutritional selecting behavior of rotifer <i>Brachionus urceus</i> . <i>Wuhan University Journal of Natural Sciences</i> , 2007 , 12, 361-366	0.4	4
21	Preparation of alginate-gelatin capsules and its properties. <i>Frontiers of Materials Science in China</i> , 2008 , 2, 253-260		4
20	Homogeneous modification of chitin and chitosan based on an alkali/urea soluble system and their applications in biomedical engineering. <i>Green Chemistry</i> ,	10	4
19	Construction of chitin functional materials based on a green alkali/urea solvent and their applications in biomedicine: Recent advance. <i>Applied Materials Today</i> , 2021 , 23, 101030	6.6	4
18	Nanosystems as curative platforms for allergic disorder management. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 1729-1744	7.3	4
17	Temperature sensitive self-assembling hydroxybutyl chitosan nanoparticles with cationic enhancement effect for multi-functional applications. <i>Carbohydrate Polymers</i> , 2021 , 254, 117199	10.3	4
16	Homogeneous deacetylation and degradation of chitin in NaOH/urea dissolution system. <i>International Journal of Biological Macromolecules</i> , 2021 , 189, 391-397	7.9	4
15	Preparation and characteristic of lactose-oleoylchitosan and the application of its self-aggregates as drug delivery system. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 3359-3367	2.9	3
14	Hydroxybutyl chitosan/ oxidized glucomannan self-healing hydrogels as BMSCs-derived exosomes carriers for advanced stretchable wounds. <i>Applied Materials Today</i> , 2022 , 26, 101342	6.6	3
13	Chitosan-centered nanosystems as sustained therapeutics for allergic rhinitis intervention: Inhibition of histamine-induced cascades. <i>Journal of Controlled Release</i> , 2021 , 335, 422-436	11.7	3
12	Precise quantification of the antibacterial activity of chitosan by NB medium neutralizer. <i>Journal of Materials Science and Technology</i> , 2021 , 70, 224-232	9.1	3
11	Exploiting autophagy-regulative nanomaterials for activation of dendritic cells enables reinforced cancer immunotherapy.. <i>Biomaterials</i> , 2022 , 282, 121434	15.6	3
10	Biogenic nanoparticles and mineral composition in the radula of chiton <i>Acanthochiton rubrolineatus</i> . <i>Frontiers of Materials Science in China</i> , 2009 , 3, 248-254		2
9	Bridging micro/nano-platform and airway allergy intervention. <i>Journal of Controlled Release</i> , 2021 , 341, 364-382	11.7	2
8	Dielectric Analysis of Microcapsule-Immobilized Composite Capsules Suspension: Substances Release. <i>Langmuir</i> , 2020 , 36, 966-971	4	1
7	Properties of biogenic magnetite nanoparticles in the radula of chiton <i>Acanthochiton rubrolineatus lischke</i> . <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011 , 26, 478-482	1	1

6	The aggregation behavior and formation of nanoparticles of oleoylchitosan in dilute aqueous solution. <i>Journal of Ocean University of China</i> , 2008 , 7, 199-204	1	1
5	Copper deposited diatom-biosilica with enhanced photothermal and photodynamic performance for infected wound therapy. <i>New Journal of Chemistry</i> , 2022 , 46, 2140-2154	3.6	1
4	Construction and characterization of degradable fish scales for enhancing cellular adhesion and potential using as tissue engineering scaffolds. <i>Materials Science and Engineering C</i> , 2021 , 122, 111919	8.3	1
3	The complex hydrogel based on diatom biosilica and hydroxybutyl chitosan for wound healing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 112523	6	0
2	Researches on the Internal Molecular Weight Uniformity of Chitosan Biomaterials. <i>Journal of Ocean University of China</i> , 2020 , 19, 459-465	1	
1	Peptide-based assemblies as immune checkpoint inhibitor delivery systems for enhanced immunotherapy. <i>Applied Materials Today</i> , 2021 , 23, 101063	6.6	