

Chengsheng Liu

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

3,194
citations

31
h-index

55
g-index

76
ext. papers

3,585
ext. citations

5.9
avg, IF

4.87
L-index

#	Paper	IF	Citations
75	Effect of MW and concentration of chitosan on antibacterial activity of Escherichia coli. <i>Carbohydrate Polymers</i> , 2006 , 64, 60-65	10.3	332
74	Protonation constants of chitosan with different molecular weight and degree of deacetylation. <i>Carbohydrate Polymers</i> , 2006 , 65, 194-201	10.3	246
73	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
72	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
71	Self-assembled nanoparticles based on hydrophobically modified chitosan as carriers for doxorubicin. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2007 , 3, 258-65	6	131
70	Effect of oleoyl-chitosan nanoparticles as a novel antibacterial dispersion system on viability, membrane permeability and cell morphology of Escherichia coli and Staphylococcus aureus. <i>Carbohydrate Polymers</i> , 2009 , 76, 17-22	10.3	126
69	Uptake of Pb(II) and Cd(II) on Chitosan Microsphere Surface Successively Grafted by Methyl Acrylate and Diethylenetriamine. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11144-11155	9.5	91
68	Oleoyl-chitosan nanoparticles inhibits Escherichia coli and Staphylococcus aureus by damaging the cell membrane and putative binding to extracellular or intracellular targets. <i>International Journal of Food Microbiology</i> , 2009 , 132, 127-33	5.8	91
67	Preparation and characteristics of novel porous hydrogel films based on chitosan and glycerophosphate. <i>Carbohydrate Polymers</i> , 2009 , 76, 410-416	10.3	78
66	Preparation and biocompatibility of chitosan microcarriers as biomaterial. <i>Biochemical Engineering Journal</i> , 2006 , 27, 269-274	4.2	74
65	Preparation and characterization of poly(maleic acid)-grafted cross-linked chitosan microspheres for Cd(II) adsorption. <i>Carbohydrate Polymers</i> , 2017 , 172, 28-39	10.3	71
64	Physicochemical characterization and antibacterial property of chitosan acetates. <i>Carbohydrate Polymers</i> , 2007 , 67, 227-232	10.3	71
63	Controlled gelation temperature, pore diameter and degradation of a highly porous chitosan-based hydrogel. <i>Carbohydrate Polymers</i> , 2011 , 83, 171-178	10.3	69
62	Microencapsulation of a probiotic bacteria with alginate-gelatin and its properties. <i>Journal of Microencapsulation</i> , 2009 , 26, 315-24	3.4	67
61	Fabrication and evaluation of thermosensitive chitosan/collagen/β-glycerophosphate hydrogels for tissue regeneration. <i>Carbohydrate Polymers</i> , 2017 , 167, 145-157	10.3	59
60	Chitosan acetate as an active coating material and its effects on the storing of Prunus avium L. <i>Journal of Food Science</i> , 2010 , 75, S125-31	3.4	58
59	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

58	Uptake of oleoyl-chitosan nanoparticles by A549 cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2008 , 4, 208-14	6	52
57	Preparation and blood coagulation evaluation of chitosan microspheres. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 1371-7	4.5	47
56	Fabrication of methyl acrylate and tetraethylenepentamine grafted magnetic chitosan microparticles for capture of Cd(II) from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2019 , 366, 346-357	12.8	46
55	3,6-O-[N-(2-Aminoethyl)-acetamide-yl]-chitosan exerts antibacterial activity by a membrane damage mechanism. <i>Carbohydrate Polymers</i> , 2016 , 149, 102-11	10.3	45
54	Antibacterial activity of oleoyl-chitosan nanoparticles: A novel antibacterial dispersion system. <i>Carbohydrate Polymers</i> , 2008 , 74, 114-120	10.3	42
53	Drug Release Kinetics of Spray-Dried Chitosan Microspheres. <i>Drying Technology</i> , 2006 , 24, 769-776	2.6	41
52	Selective Adsorption toward Hg(II) and Inhibitory Effect on Bacterial Growth Occurring on Thiosemicarbazide-Functionalized Chitosan Microsphere Surface. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40302-40316	9.5	41
51	Preparation and characterization of carboxyl-functionalized chitosan magnetic microspheres and microspheres for Pb ²⁺ removal. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 482, 353-364	5.1	38
50	Injectable thermosensitive hydrogel based on chitosan and quaternized chitosan and the biomedical properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 1603-10	4.5	38
49	Preparation, characterization and antibacterial activity of O-acetyl-chitosan-N-2-hydroxypropyl trimethyl ammonium chloride. <i>International Journal of Biological Macromolecules</i> , 2015 , 80, 8-15	7.9	37
48	Preparations, characterizations and applications of chitosan-based nanoparticles. <i>Journal of Ocean University of China</i> , 2007 , 6, 237-243	1	37
47	Enhancement of dissolution rate of valdecoxib using solid dispersions with polyethylene glycol 4000. <i>Drug Development and Industrial Pharmacy</i> , 2005 , 31, 1-10	3.6	37
46	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
45	Characterizations of chitosan-based highly porous hydrogel and the effects of the solvent. <i>Journal of Applied Polymer Science</i> , 2012 , 125, E88-E98	2.9	31
44	Characteristics of rofecoxib-polyethylene glycol 4000 solid dispersions and tablets based on solid dispersions. <i>Pharmaceutical Development and Technology</i> , 2005 , 10, 467-77	3.4	31
43	Synthesis, characterization, and evaluation of poly(aminoethyl) modified chitosan and its hydrogel used as antibacterial wound dressing. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 457-467	7.9	30
42	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
41	Preparation and evaluation of adipic acid dihydrazide cross-linked carboxymethyl chitosan microspheres for copper ion adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 502, 34-43	5.1	30

40	Preparation of chitosan-based thermosensitive hydrogels for drug delivery. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 1509-1515	2.9	28
39	Preparation, characterization, and evaluation of 3,6-O-N-acetylenehexylamine modified chitosan as potential antimicrobial wound dressing material. <i>Carbohydrate Polymers</i> , 2018 , 180, 1-12	10.3	27
38	Heterotrophic nitrogen removal by a newly-isolated alkalitolerant microorganism, <i>Serratia marcescens</i> W5. <i>Bioresource Technology</i> , 2016 , 211, 618-27	11	27
37	Cr(VI) and Pb(II) capture on pH-responsive polyethyleneimine and chloroacetic acid functionalized chitosan microspheres. <i>Carbohydrate Polymers</i> , 2019 , 219, 353-367	10.3	26
36	Dissociation behaviors of carboxyl and amine groups on carboxymethyl-chitosan in aqueous system. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 1419-1429	2.6	24
35	Preparation and Characterization of Carboxymethyl Chitosan and β -Cyclodextrin Microspheres by Spray Drying. <i>Drying Technology</i> , 2007 , 26, 108-115	2.6	23
34	Characterization and biocompatibility of injectable microspheres-loaded hydrogel for methotrexate delivery. <i>Carbohydrate Polymers</i> , 2016 , 136, 516-26	10.3	22
33	Characterization and antibacterial mechanism of poly(aminoethyl) modified chitin synthesized via a facile one-step pathway. <i>Carbohydrate Polymers</i> , 2018 , 195, 275-287	10.3	22
32	Itaconic acid grafted carboxymethyl chitosan and its nanoparticles: Preparation, characterization and evaluation. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 10-18	7.9	21
31	Preparation and characterization of N-benzoyl-O-acetyl-chitosan. <i>International Journal of Biological Macromolecules</i> , 2015 , 77, 52-8	7.9	21
30	Investigation of polymeric amphiphilic nanoparticles as antitumor drug carriers. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 991-9	4.5	20
29	Characterization of collagen from haddock skin and wound healing properties of its hydrolysates. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 015022	3.5	19
28	Design and evaluation of a highly porous thermosensitive hydrogel with low gelation temperature as a 3D culture system for <i>Penaeus chinensis</i> lymphoid cells. <i>Carbohydrate Polymers</i> , 2012 , 88, 361-368	10.3	18
27	Sweet Potato Starch Microparticles as Controlled Drug Release Carriers: Preparation and In Vitro Drug Release. <i>Drying Technology</i> , 2007 , 25, 689-693	2.6	17
26	Release characteristics of three model drugs from chitosan/cellulose acetate multimicrospheres. <i>Biochemical Engineering Journal</i> , 2006 , 31, 228-233	4.2	17
25	Solubility of Valdecoxib in the Presence of Ethanol and Sodium Lauryl Sulfate at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 1847-1850	2.8	17
24	Enhancement of dissolution rate of rofecoxib using solid dispersions with urea. <i>Drug Development Research</i> , 2004 , 63, 181-189	5.1	16
23	Decanoic acid functionalized chitosan: Synthesis, characterization, and evaluation as potential wound dressing material. <i>International Journal of Biological Macromolecules</i> , 2019 , 139, 1046-1053	7.9	14

22	Effect of Trehalose and Drying Process on the Survival of Encapsulated <i>Lactobacillus casei</i> ATCC 393. <i>Drying Technology</i> , 2008 , 26, 895-901	2.6	14
21	Plasma protein adsorption pattern and tissue-implant reaction of poly(vinyl alcohol)/carboxymethyl-chitosan blend films. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 113-29	3.5	13
20	Preparation and characteristics of chitosan microspheres in different acetylation as drug carrier system. <i>Journal of Microencapsulation</i> , 2009 , 26, 593-602	3.4	12
19	Preparation and Properties of Amphiphilic Chitosan Derivative as a Coagulation Agent. <i>Environmental Engineering Science</i> , 2008 , 25, 1325-1332	2	11
18	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
17	Biological evaluation of a novel chitosan-PVA-based local delivery system for treatment of periodontitis. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 91, 1065-76	5.4	8
16	Novel amidinothiourea-modified chitosan microparticles for selective removal of Hg(II) in solution. <i>Carbohydrate Polymers</i> , 2021 , 269, 118273	10.3	8
15	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
14	Preparation of a multistructural film with CM-chitosan and PVA, and in vitro ornidazole release from the carrier. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 1136-1144	2.9	7
13	Biological evaluation of chitosan-based in situ-forming hydrogel with low phase transition temperature. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	6
12	Antibacterial porous sponge fabricated with capric acid-grafted chitosan and oxidized dextran as a novel hemostatic dressing. <i>Carbohydrate Polymers</i> , 2022 , 277, 118782	10.3	6
11	Improved dissolution and anti-inflammatory effect of ibuprofen by solid dispersion. <i>Frontiers of Medicine</i> , 2012 , 6, 195-203	12	5
10	Solubility of Rofecoxib in the Presence of Mannitol, Poly(vinylpyrrolidone) K30, Urea, Polyethylene Glycol 4000, and Polyethylene Glycol 6000 at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 661-665	2.8	5
9	Solubility of Valdecoxib in the Presence of Glycerol, Propylene Glycol, and Poly(ethylene glycol) 400 at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1736-1739	2.8	5
8	Influence of <i>Lactobacillus</i> E1 on the storage stability in emulsion immobilization. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2009 , 24, 75-80	1	4
7	Preparation of alginate-gelatin capsules and its properties. <i>Frontiers of Materials Science in China</i> , 2008 , 2, 253-260		4
6	Solubility of Valdecoxib in the Presence of Poly(ethylene glycol) 4000, Poly(ethylene glycol) 6000, Poly(ethylene glycol) 8000, and Poly(ethylene glycol) 10 000 at (298.15, 303.15, and 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 278-282	2.8	4
5	Chitosan/Cellulose Acetate Microspheres Preparation and Ranitidine Release In Vitro. <i>Pharmaceutical Development and Technology</i> , 2005 , 10, 219-225	3.4	2

4	Properties of biogenic magnetite nanoparticles in the radula of chiton <i>Acanthochiton rubrolineatus</i> lischke. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011 , 26, 478-482	1	1
3	Carboxymethyl chitosan and carboxymethyl cellulose based self-healing hydrogel for accelerating diabetic wound healing. <i>Carbohydrate Polymers</i> , 2022 , 119687	10.3	1
2	Selective capture of mercury(II) in aqueous media using nanoporous diatomite modified by allyl thiourea. <i>Journal of Materials Science</i> , 2022 , 57, 9246-9264	4.3	0
1	Preparation and characterization in vitro of sustained-release captopril/Chitosan-gelatin net-polymer microspheres (Cap/CGNPMs). <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2006 , 21, 35-40	1	