

Xiaojuan Xu

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109
papers

3,565
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34
h-index

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112
ext. papers

4,195
ext. citations

6.4
avg, IF

5.63
L-index

#	Paper	IF	Citations
109	Dynamic Self-Assembly Induced Rapid Dissolution of Cellulose at Low Temperatures. <i>Macromolecules</i> , 2008 , 41, 9345-9351	5.5	322
108	Correlation between antitumor activity, molecular weight, and conformation of lentinan. <i>Carbohydrate Research</i> , 2005 , 340, 1515-21	2.9	224
107	Intermolecular interaction and the extended wormlike chain conformation of chitin in NaOH/urea aqueous solution. <i>Biomacromolecules</i> , 2015 , 16, 1410-7	6.9	139
106	Preparation and antimicrobial activity of hydroxypropyl chitosan. <i>Carbohydrate Research</i> , 2005 , 340, 1846-51	5.1	120
105	Effects of molecular structure on antitumor activities of (1->3)- β -D-glucans from different <i>Lentinus Edodes</i> . <i>Carbohydrate Polymers</i> , 2006 , 63, 97-104	10.3	110
104	Chain conformation and anti-tumor activities of phosphorylated (1->3)- β -D-glucan from <i>Poria cocos</i> . <i>Carbohydrate Polymers</i> , 2009 , 78, 581-587	10.3	109
103	Branching structure and chain conformation of water-soluble glucan extracted from <i>Auricularia auricula-judae</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 3498-506	5.7	94
102	Construction of selenium nanoparticles/ β -D-glucan composites for enhancement of the antitumor activity. <i>Carbohydrate Polymers</i> , 2015 , 117, 434-442	10.3	89
101	Thermally induced conformation transition of triple-helical lentinan in NaCl aqueous solution. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10343-51	3.4	88
100	Inclusion Interaction of Highly Densely PEO Grafted Polymer Brush and β -Cyclodextrin. <i>Macromolecules</i> , 2005 , 38, 3845-3851	5.5	85
99	Triple helical polysaccharide-induced good dispersion of silver nanoparticles in water. <i>Biomacromolecules</i> , 2011 , 12, 2864-71	6.9	64
98	Rheological behavior of <i>Aeromonas</i> gum in aqueous solutions. <i>Food Hydrocolloids</i> , 2006 , 20, 723-729	10.6	61
97	Morphologies and conformation transition of lentinan in aqueous NaOH solution. <i>Biopolymers</i> , 2004 , 75, 187-95	2.2	59
96	Chain conformation and anti-tumor activity of derivatives of polysaccharide from <i>Rhizoma Panacis Japonici</i> . <i>Carbohydrate Polymers</i> , 2014 , 105, 308-16	10.3	58
95	Chain structures of glucans from <i>Lentinus edodes</i> and their effects on NO production from RAW 264.7 macrophages. <i>Carbohydrate Polymers</i> , 2012 , 87, 1855-1862	10.3	58
94	β -D-Glucan from <i>Lentinus edodes</i> inhibits nitric oxide and tumor necrosis factor- α production and phosphorylation of mitogen-activated protein kinases in lipopolysaccharide-stimulated murine RAW 264.7 macrophages. <i>Journal of Biological Chemistry</i> , 2012 , 287, 871-8	5.4	58
93	Construction of high strength hollow fibers by self-assembly of a stiff polysaccharide with short branches in water. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4198	13	57

92	Dynamic viscoelastic behavior of triple helical Lentinan in water: Effects of concentration and molecular weight. <i>Polymer</i> , 2007 , 48, 6681-6690	3.9	57
91	Recent Advances in Chain Conformation and Bioactivities of Triple-Helix Polysaccharides. <i>Biomacromolecules</i> , 2020 , 21, 1653-1677	6.9	55
90	Rheology of triple helical Lentinan in solution: Steady shear viscosity and dynamic oscillatory behavior. <i>Food Hydrocolloids</i> , 2008 , 22, 735-741	10.6	53
89	Construction of blood compatible lysine-immobilized chitin/carbon nanotube microspheres and potential applications for blood purified therapy. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2952-2963	7.3	49
88	Immunomodulatory beta-glucan from <i>Lentinus edodes</i> activates mitogen-activated protein kinases and nuclear factor-kappaB in murine RAW 264.7 macrophages. <i>Journal of Biological Chemistry</i> , 2011 , 286, 31194-8	5.4	47
87	Structural characterization, chain conformation, and morphology of a beta-(1 \rightarrow 3)-D-glucan isolated from the fruiting body of <i>Dictyophora indusiata</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 5918-24	5.7	47
86	Effect of quinoa flour on baking performance, antioxidant properties and digestibility of wheat bread. <i>Food Chemistry</i> , 2019 , 294, 87-95	8.5	46
85	Structural changes of waxy and normal maize starches modified by heat moisture treatment and their relationship with starch digestibility. <i>Carbohydrate Polymers</i> , 2017 , 177, 232-240	10.3	46
84	Hypoglycemic activity of the Baker's yeast β -glucan in obese/type 2 diabetic mice and the underlying mechanism. <i>Molecular Nutrition and Food Research</i> , 2016 , 60, 2678-2690	5.9	41
83	Collapse and association of denatured lentinan in water/dimethylsulfoxide solutions. <i>Biomacromolecules</i> , 2004 , 5, 1893-8	6.9	40
82	Anti-tumor effect of β -glucan from <i>Lentinus edodes</i> and the underlying mechanism. <i>Scientific Reports</i> , 2016 , 6, 28802	4.9	39
81	Progress in rigid polysaccharide-based nanocomposites with therapeutic functions. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5690-5713	7.3	37
80	Orally Administered Baker's Yeast β -Glucan Promotes Glucose and Lipid Homeostasis in the Livers of Obesity and Diabetes Model Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 9665-9674	5.7	36
79	Synthesis and stabilization of gold nanoparticles induced by denaturation and renaturation of triple helical β -glucan in water. <i>Biomacromolecules</i> , 2013 , 14, 1787-94	6.9	36
78	Renaturation of triple helical polysaccharide lentinan in water-diluted dimethylsulfoxide solution. <i>Carbohydrate Research</i> , 2010 , 345, 419-24	2.9	36
77	Inhibition of dextran sodium sulfate-induced colitis in mice by baker's yeast polysaccharides. <i>Carbohydrate Polymers</i> , 2019 , 207, 371-381	10.3	36
76	Different variations in structures of A- and B-type starches subjected to microwave treatment and their relationships with digestibility. <i>LWT - Food Science and Technology</i> , 2019 , 99, 179-187	5.4	36
75	Highly Efficient One-Step Purification of Sulfated Polysaccharides via Chitosan Microspheres Adsorbents. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3195-3203	8.3	33

74	The linear structure of β -glucan from baker's yeast and its activation of macrophage-like RAW264.7 cells. <i>Carbohydrate Polymers</i> , 2016 , 148, 61-8	10.3	33
73	β -Glucan from <i>Saccharomyces cerevisiae</i> reduces lipopolysaccharide-induced inflammatory responses in RAW264.7 macrophages. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012 , 1820, 1656-63	4.3	31
72	The β -glucan from suppresses cell proliferation and promotes apoptosis in estrogen receptor positive breast cancers. <i>Oncotarget</i> , 2017 , 8, 86693-86709	3.3	30
71	Flexible chain conformation of (1 \rightarrow 3)- β -D-glucan from <i>Poria cocos sclerotium</i> in NaOH/urea aqueous solution. <i>Carbohydrate Polymers</i> , 2009 , 75, 586-591	10.3	29
70	A novel cationic polyelectrolyte microsphere for ultrafast and ultra-efficient removal of heavy metal ions and dyes. <i>Chemical Engineering Journal</i> , 2021 , 410, 128404	14.7	29
69	Construction of highly stable selenium nanoparticles embedded in hollow nanofibers of polysaccharide and their antitumor activities. <i>Nano Research</i> , 2017 , 10, 3775-3789	10	28
68	Orally Delivered Antisense Oligodeoxyribonucleotides of TNF- α via Polysaccharide-Based Nanocomposites Targeting Intestinal Inflammation. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801389	10.1	28
67	Anti-hepatoma activity of the stiff branched β -D-glucan and effects of molecular weight. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4565-4573	7.3	28
66	Yeast β -Glucan Suppresses the Chronic Inflammation and Improves the Microenvironment in Adipose Tissues of ob/ob Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 621-629	5.7	27
65	Determination of the triple helical chain conformation of β -glucan by facile and reliable triple-detector size exclusion chromatography. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 668-75	3.4	27
64	Extended chain conformation of β -glucan and its effect on antitumor activity. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5623-5631	7.3	27
63	Triple-Helix Conformation of a Polysaccharide Determined with Light Scattering, AFM, and Molecular Dynamics Simulation. <i>Macromolecules</i> , 2018 , 51, 10150-10159	5.5	27
62	A novel gene carrier prepared from triple helical β -glucan and polydeoxyadenylic acid. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 933-944	7.3	26
61	Antitumor activities of O-sulfonated derivatives of (1 \rightarrow 3)- α -D-glucan from different <i>Lentinus edodes</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2006 , 70, 38-46	2.1	26
60	Dendritic nanotubes self-assembled from stiff polysaccharides as drug and probe carriers. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2616-2624	7.3	25
59	Gel formation and low-temperature intramolecular conformation transition of a triple-helical polysaccharide lentinan in water. <i>Biopolymers</i> , 2008 , 89, 852-61	2.2	25
58	Chain conformation and biological activities of hyperbranched fucoidan derived from brown algae and its desulfated derivative. <i>Carbohydrate Polymers</i> , 2019 , 208, 86-96	10.3	25
57	Inhibition of tumor growth by β -glucans through promoting CD4 T cell immunomodulation and neutrophil-killing in mice. <i>Carbohydrate Polymers</i> , 2019 , 213, 370-381	10.3	22

56	Effect of heating on chain conformation of branched β -glucan in water. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 8370-7	3.4	22
55	Chain conformation and rheological behavior of an extracellular heteropolysaccharide Erwinia gum in aqueous solution. <i>Carbohydrate Research</i> , 2009 , 344, 113-9	2.9	22
54	Self-assembly of graphene oxide on the surface of aluminum foil. <i>New Journal of Chemistry</i> , 2013 , 37, 181-187	3.6	20
53	Interaction between polydeoxyadenylic acid and β -glucan from <i>Lentinus edodes</i> . <i>European Polymer Journal</i> , 2012 , 48, 1329-1338	5.2	20
52	Dynamic viscoelastic behavior of triple helical Lentinan in water: Effect of temperature. <i>Carbohydrate Polymers</i> , 2008 , 73, 26-34	10.3	19
51	Transfection efficiency and internalization of the gene carrier prepared from a triple-helical β -glucan and polydeoxyadenylic acid in macrophage RAW264.7 cells. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3789-3798	7.3	18
50	Anti-leukemia activities of selenium nanoparticles embedded in nanotube consisted of triple-helix β -D-glucan. <i>Carbohydrate Polymers</i> , 2020 , 240, 116329	10.3	17
49	Changes in shape and size of the stiff branched β -glucan in dimethylsulfoxide/water solutions. <i>Carbohydrate Polymers</i> , 2016 , 138, 86-93	10.3	17
48	Natural polysaccharides with different conformations: extraction, structure and anti-tumor activity. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 9652-9667	7.3	17
47	Single chain morphology and nanofiber-like aggregates of branched β (1 \rightarrow 3)-D-glucan in water/dimethylsulfoxide solution. <i>Carbohydrate Polymers</i> , 2016 , 137, 287-294	10.3	16
46	Molecular weight and chain conformation of amylopectin from rice starch. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 3124-3128	2.9	16
45	Effect of molecular mass on antitumor activity of heteropolysaccharide from <i>Poria cocos</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2005 , 69, 631-4	2.1	16
44	Microstructure, gelatinization and pasting properties of rice starch under acid and heat treatments. <i>International Journal of Biological Macromolecules</i> , 2020 , 149, 1098-1108	7.9	15
43	Variable chain conformations of renatured β -glucan in dimethylsulfoxide/water mixture. <i>Biopolymers</i> , 2012 , 97, 988-97	2.2	15
42	Chain conformation and rheological behavior of exopolysaccharide from <i>Bacillus mucilaginosus</i> SM-01. <i>Food Hydrocolloids</i> , 2017 , 65, 165-174	10.6	14
41	A Novel Strategy for Treating Inflammatory Bowel Disease by Targeting Delivery of Methotrexate through Glucan Particles. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901805	10.1	14
40	Chemical structure of aeromonas gum—extracellular polysaccharide from <i>Aeromonas nichidenii</i> 5797. <i>Carbohydrate Research</i> , 2004 , 339, 1631-6	2.9	14
39	Solution properties of water-insoluble polysaccharides from the mycelium of <i>Ganoderma tsugae</i> . <i>Carbohydrate Polymers</i> , 2005 , 59, 351-356	10.3	14

38	Aggregation of Aeromonas Gum in Aqueous Solution. <i>Polymer Journal</i> , 1999 , 31, 150-153	2.7	14
37	New approaches for the synthesis of hindered C60-containing polyphosphazenes via functionalized intermediates. <i>Journal of Polymer Science Part A</i> , 2004 , 42, 2877-2885	2.5	12
36	Nanoplatform Constructed from a β -Glucan and Polydeoxyadenylic Acid for Cancer Chemotherapy and Imaging. <i>Biomacromolecules</i> , 2019 , 20, 1567-1577	6.9	11
35	Construction of size-controllable gold nanoparticles immobilized on polysaccharide nanotubes by in situ one-pot synthesis. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 240-247	7.9	11
34	Lentinan greatly enhances the dispersibility of single-walled carbon nanotubes in water and decreases the cytotoxicity. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2013 , 1, 111-119	3.4	11
33	Hypoglycemic Effects of Pyrodextrins with Different Molecular Weights and Digestibilities in Mice with Diet-Induced Obesity. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 2988-2995	5.7	10
32	Dilute-solution behavior of aeromonas gum, a heteropolysaccharide. <i>Polymer Bulletin</i> , 2002 , 48, 491-498	2.4	10
31	A novel self-assembly Lentinan-tetraphenylethylene composite with strong blue fluorescence in water and its properties. <i>Carbohydrate Polymers</i> , 2017 , 174, 13-24	10.3	9
30	The LiCl effect on the conformation of lentinan in DMSO. <i>Biopolymers</i> , 2012 , 97, 840-5	2.2	9
29	Viscoelastic properties of an exopolysaccharide: Aeromonas gum, produced by Aeromonas nichidenii 5797. <i>Biorheology</i> , 2007 , 44, 387-401	1.7	9
28	Uptake of intraperitoneally administrated triple helical β -glucan for antitumor activity in murine tumor models. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 9337-9345	7.3	8
27	Aggregation and disaggregation of Aeromonas gum in an aqueous solution under different conditions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 2644-2651	2.6	8
26	SOLUTION PROPERTIES OF PACHYMAN FROM PORIA COCOS MYCELIA IN DIMETHYL SULFOXIDE. <i>Journal of Macromolecular Science - Physics</i> , 2001 , 40, 147-156	1.4	8
25	Assembly of single-stranded polydeoxyadenylic acid and β -glucan probed by the sensing platform of graphene oxide based on the fluorescence resonance energy transfer and fluorescence anisotropy. <i>Analyst</i> , 2013 , 138, 2661-8	5	7
24	Chain conformation transition induced host-guest assembly between triple helical curdlan and β -CD for drug delivery. <i>Biomaterials Science</i> , 2020 , 8, 1638-1648	7.4	7
23	Heat-induced conformation transition of the comb-branched β -glucan in dimethyl sulfoxide/water mixture. <i>Carbohydrate Polymers</i> , 2017 , 157, 1404-1412	10.3	6
22	Chain stiffness of heteropolysaccharide from Aeromonas gum in dilute solution by dynamic light scattering. <i>Biopolymers</i> , 2002 , 65, 387-94	2.2	5
21	Effects of the thermal history and concentration on the aggregation of Erwinia gum in an aqueous solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 1352-1358	2.6	5

20	Effects of potassium sulfate on swelling, gelatinizing and pasting properties of three rice starches from different sources. <i>Carbohydrate Polymers</i> , 2021 , 251, 117057	10.3	5
19	Source apportionment and health risk assessment of trace elements in the heavy industry areas of Tangshan, China. <i>Air Quality, Atmosphere and Health</i> , 2019 , 12, 1303-1315	5.6	4
18	Molecular weight and aggregation of Aeromonas gum treated with dimethyl sulfoxide in aqueous solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002 , 40, 2269-2276	2.6	4
17	Fabrication of tumor-targeting composites based on the triple helical β glucan through conjugation of aptamer. <i>Carbohydrate Polymers</i> , 2021 , 254, 117476	10.3	4
16	New insights into the anti- hepatoma mechanism of triple-helix β glucan by metabolomics profiling. <i>Carbohydrate Polymers</i> , 2021 , 269, 118289	10.3	4
15	Construction of silver nanoparticles by the triple helical polysaccharide from black fungus and the antibacterial activities. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 1170-1178	7.9	3
14	Detection of sialylated N-Linked glycans by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Wuhan University Journal of Natural Sciences</i> , 2014 , 19, 245-252	0.4	2
13	Molecular architectures of four-arm star-shaped styrene-butadiene copolymer. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 961-965	2.9	2
12	Urea/NaOH aqueous solution as new solvent of aeromonas gum. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 1710-1713	2.9	2
11	Molecular size and aggregation behavior of Erwinia gum in aqueous solution. <i>Journal of Applied Polymer Science</i> , 2000 , 75, 1083-1088	2.9	2
10	Neural Regeneration: A Novel Strategy for Treating Inflammatory Bowel Disease by Targeting Delivery of Methotrexate through Glucan Particles (Adv. Healthcare Mater. 6/2020). <i>Advanced Healthcare Materials</i> , 2020 , 9, 2070018	10.1	1
9	Targeted delivery of methotrexate by modified yeast β glucan nanoparticles for rheumatoid arthritis therapy.. <i>Carbohydrate Polymers</i> , 2022 , 284, 119183	10.3	1
8	Specific β glucans in chain conformations and their biological functions. <i>Polymer Journal</i> ,	2.7	1
7	Pt(IV) Prodrugs Designed to Embed in Nanotubes of a Polysaccharide for Drug Delivery.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 4841-4848	4.1	1
6	The environmental benefit of Beijing-Tianjin-Hebei coal banning area for North China.. <i>Journal of Environmental Management</i> , 2022 , 311, 114870	7.9	1
5	One-step synthesis of ultra-small silver nanoparticles-loaded triple-helix β glucan nanocomposite for highly catalytic hydrogenation of 4-nitrophenol and dyes. <i>Chemical Engineering Journal</i> , 2022 , 442, 136114	14.7	1
4	The composites of triple-helix glucan nanotubes/selenium nanoparticles target hepatocellular carcinoma to enhance ferroptosis by depleting glutathione and augmenting redox imbalances. <i>Chemical Engineering Journal</i> , 2022 , 137110	14.7	1
3	Designing a Highly Stable Enzyme-Graphene Oxide Biohybrid as a Sensitive Biorecognition Module for Biosensor Fabrication with Superior Performance and Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 2971-2983	8.3	0

- 2 Chain conformations and steady-shear viscosity properties of pectic polysaccharides from apple and tomato.. *Food Chemistry: X*, **2022**, 14, 100296 4.7 ○
- 1 Chemical structure of aeromonas gum??extracellular polysaccharide from *Aeromonas nichidenii* 5797. *Carbohydrate Research*, **2004**, 339, 1631-1631 2.9