

Xiaojuan Xu

List of Publications by Year in Descending Order

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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.

109
papers

3,565
citations

34
h-index

56
g-index

112
ext. papers

4,195
ext. citations

6.4
avg, IF

5.63
L-index

#	Paper	IF	Citations
109	Targeted delivery of methotrexate by modified yeast β -glucan nanoparticles for rheumatoid arthritis therapy.. <i>Carbohydrate Polymers</i> , 2022 , 284, 119183	10.3	1
108	Designing a Highly Stable Enzyme-Glucan 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
107	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
106	Chain conformations and steady-shear viscosity properties of pectic polysaccharides from apple and tomato.. <i>Food Chemistry: X</i> , 2022 , 14, 100296	4.7	0
105	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
104	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
103	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
102	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
101	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
100	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
99	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
98	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
97	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
96	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
95	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
94	Recent Advances in Chain Conformation and Bioactivities of Triple-Helix Polysaccharides. <i>Biomacromolecules</i> , 2020 , 21, 1653-1677	6.9	55
93	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

92	Chain conformation transition induced host-guest assembly between triple helical curdlan and ECD for drug delivery. <i>Biomaterials Science</i> , 2020 , 8, 1638-1648	7.4	7
91	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
90	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
89	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
88	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
87	Nanoplatfrom Constructed from a β -Glucan and Polydeoxyadenylic Acid for Cancer Chemotherapy and Imaging. <i>Biomacromolecules</i> , 2019 , 20, 1567-1577	6.9	11
86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	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
78	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
77	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
76	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
75	Progress in rigid polysaccharide-based nanocomposites with therapeutic functions. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5690-5713	7.3	37

74	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
73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	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
65	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
64	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
63	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
62	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
61	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
60	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
59	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
58	Construction of selenium nanoparticles/ β -glucan composites for enhancement of the antitumor activity. <i>Carbohydrate Polymers</i> , 2015 , 117, 434-442	10.3	89
57	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

56	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
55	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
54	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
53	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
52	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
51	Self-assembly of graphene oxide on the surface of aluminum foil. <i>New Journal of Chemistry</i> , 2013 , 37, 181-187	3.6	20
50	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, The</i> , 2013 , 138, 2661-8	5	7
49	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
48	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
47	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
46	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
45	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
44	Interaction between polydeoxyadenylic acid and β glucan from <i>Lentinus edodes</i> . <i>European Polymer Journal</i> , 2012 , 48, 1329-1338	5.2	20
43	Variable chain conformations of renatured β glucan in dimethylsulfoxide/water mixture. <i>Biopolymers</i> , 2012 , 97, 988-97	2.2	15
42	The LiCl effect on the conformation of lentinan in DMSO. <i>Biopolymers</i> , 2012 , 97, 840-5	2.2	9
41	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
40	β 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
39	Triple helical polysaccharide-induced good dispersion of silver nanoparticles in water. <i>Biomacromolecules</i> , 2011 , 12, 2864-71	6.9	64

38	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
37	Renaturation of triple helical polysaccharide lentinan in water-diluted dimethylsulfoxide solution. <i>Carbohydrate Research</i> , 2010 , 345, 419-24	2.9	36
36	Flexible chain conformation of (1 → 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
35	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
34	Chain conformation and rheological behavior of an extracellular heteropolysaccharide <i>Erwinia</i> gum in aqueous solution. <i>Carbohydrate Research</i> , 2009 , 344, 113-9	2.9	22
33	Structural characterization, chain conformation, and morphology of a beta-(1→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
32	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
31	Dynamic Self-Assembly Induced Rapid Dissolution of Cellulose at Low Temperatures. <i>Macromolecules</i> , 2008 , 41, 9345-9351	5.5	322
30	Dynamic viscoelastic behavior of triple helical Lentinan in water: Effect of temperature. <i>Carbohydrate Polymers</i> , 2008 , 73, 26-34	10.3	19
29	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
28	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
27	Molecular weight and chain conformation of amylopectin from rice starch. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 3124-3128	2.9	16
26	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
25	Viscoelastic properties of an exopolysaccharide: <i>Aeromonas</i> gum, produced by <i>Aeromonas nichidenii</i> 5797. <i>Biorheology</i> , 2007 , 44, 387-401	1.7	9
24	Rheological behavior of <i>Aeromonas</i> gum in aqueous solutions. <i>Food Hydrocolloids</i> , 2006 , 20, 723-729	10.6	61
23	Antitumor activities of O-sulfonated derivatives of (1→3)- α -D-glucan from different <i>Lentinus edodes</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2006 , 70, 38-46	2.1	26
22	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
21	Inclusion Interaction of Highly Densely PEO Grafted Polymer Brush and β -Cyclodextrin. <i>Macromolecules</i> , 2005 , 38, 3845-3851	5.5	85

20	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
19	Correlation between antitumor activity, molecular weight, and conformation of lentinan. <i>Carbohydrate Research</i> , 2005 , 340, 1515-21	2.9	224
18	Molecular architectures of four-arm star-shaped styrene-butadiene copolymer. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 961-965	2.9	2
17	Urea/NaOH aqueous solution as new solvent of aeromonas gum. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 1710-1713	2.9	2
16	Preparation and antimicrobial activity of hydroxypropyl chitosan. <i>Carbohydrate Research</i> , 2005 , 340, 1846-51	12.0	
15	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
14	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
13	Morphologies and conformation transition of lentinan in aqueous NaOH solution. <i>Biopolymers</i> , 2004 , 75, 187-95	2.2	59
12	Chemical structure of aeromonas gum--extracellular polysaccharide from <i>Aeromonas nichidenii</i> 5797. <i>Carbohydrate Research</i> , 2004 , 339, 1631-6	2.9	14
11	Collapse and association of denatured lentinan in water/dimethylsulfoxide solutions. <i>Biomacromolecules</i> , 2004 , 5, 1893-8	6.9	40
10	Chemical structure of aeromonas gum??extracellular polysaccharide from <i>Aeromonas nichidenii</i> 5797. <i>Carbohydrate Research</i> , 2004 , 339, 1631-1631	2.9	
9	Chain stiffness of heteropolysaccharide from <i>Aeromonas gum</i> in dilute solution by dynamic light scattering. <i>Biopolymers</i> , 2002 , 65, 387-94	2.2	5
8	Dilute-solution behavior of aeromonas gum, a heteropolysaccharide. <i>Polymer Bulletin</i> , 2002 , 48, 491-498	2.4	10
7	Molecular weight and aggregation of <i>Aeromonas gum</i> treated with dimethyl sulfoxide in aqueous solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002 , 40, 2269-2276	2.6	4
6	SOLUTION PROPERTIES OF PACHYMAN FROM <i>PORIA COCOS</i> MYCELIA IN DIMETHYL SULFOXIDE. <i>Journal of Macromolecular Science - Physics</i> , 2001 , 40, 147-156	1.4	8
5	Molecular size and aggregation behavior of <i>Erwinia gum</i> in aqueous solution. <i>Journal of Applied Polymer Science</i> , 2000 , 75, 1083-1088	2.9	2
4	Effects of the thermal history and concentration on the aggregation of <i>Erwinia gum</i> in an aqueous solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 1352-1358	2.6	5
3	Aggregation and disaggregation of <i>Aeromonas gum</i> in an aqueous solution under different conditions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 2644-2651	2.6	8

- 2 Aggregation of Aeromonas Gum in Aqueous Solution. *Polymer Journal*, **1999**, 31, 150-153 2.7 14
- 1 Specific β -glucans in chain conformations and their biological functions. *Polymer Journal*, 2.7 1