

Zhen-Yuan Zhu

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.

79 papers	1,408 citations	22 h-index	34 g-index
84 ext. papers	1,919 ext. citations	5.5 avg, IF	4.98 L-index

#	Paper	IF	Citations
79	Preparation, structure and α -glucosidase inhibitory of oligosaccharides by enzymatic hydrolysis from <i>Annona squamosa</i> polysaccharide. <i>Industrial Crops and Products</i> , 2022 , 177, 114468	5.9	1
78	Dihydromyricetin from <i>Ampelopsis grossedentata</i> and its derivatives: Structural characterization and anti-hepatocellular carcinoma activity. <i>Journal of Molecular Structure</i> , 2022 , 1258, 132677	3.4	
77	Structure analysis and Pb^{2+} -resistant activity of novel oligosaccharide from <i>Trichoderma asperellum</i> . <i>Journal of Molecular Structure</i> , 2022 , 1261, 132893	3.4	
76	Structure analysis and antioxidant activity of polysaccharide-iron (III) from <i>Cordyceps militaris</i> mycelia. <i>International Journal of Biological Macromolecules</i> , 2021 , 178, 170-179	7.9	11
75	Extraction, purification, structural characterization, and antioxidant activity of polysaccharides from Wheat Bran. <i>Journal of Molecular Structure</i> , 2021 , 1233, 130096	3.4	11
74	Structural characterization and inhibitions on α -glucosidase and α -amylase of alkali-extracted water-soluble polysaccharide from <i>Annona squamosa</i> residue. <i>International Journal of Biological Macromolecules</i> , 2021 , 166, 730-740	7.9	6
73	Enzymatic characterization and validation of gene expression of phosphoglucomutase from <i>Cordyceps militaris</i> . <i>Biotechnology Letters</i> , 2021 , 43, 177-192	3	1
72	Structure and hypoglycemic activity of a novel exopolysaccharide of <i>Cordyceps militaris</i> . <i>International Journal of Biological Macromolecules</i> , 2021 , 166, 496-508	7.9	10
71	Synthesis and inhibition of α -glucosidase of methyl glycyrrhetinate glycosides. <i>Natural Product Research</i> , 2021 , 35, 1874-1880	2.3	1
70	Structure, antioxidant property and protection on PC12 of a polysaccharide isolated and screened from <i>L.Moench</i> (okra). <i>Natural Product Research</i> , 2021 , 1-7	2.3	1
69	Effect of steam explosion pretreatment on the structure and bioactivity of <i>Ampelopsis grossedentata</i> polysaccharides. <i>International Journal of Biological Macromolecules</i> , 2021 , 185, 194-205	7.9	2
68	Comparison of response mechanism of ordinary <i>Cordyceps militaris</i> and domesticated <i>Cordyceps militaris</i> to Pb^{2+} stress. <i>Process Biochemistry</i> , 2021 , 107, 112-120	4.8	1
67	A novel acid polysaccharide from fermented broth of <i>Pleurotus citrinopileatus</i> : Hypoglycemic activity <i>in vitro</i> and chemical structure. <i>Journal of Molecular Structure</i> , 2020 , 1220, 128717	3.4	10
66	Effects of Na_2SeO_3 on growth, metabolism, antioxidase and enzymes involved in polysaccharide synthesis of <i>Cordyceps militaris</i> . <i>Process Biochemistry</i> , 2020 , 97, 64-71	4.8	4
65	Function and mechanism of polysaccharide on enhancing tolerance of <i>Trichoderma asperellum</i> under Pb stress. <i>International Journal of Biological Macromolecules</i> , 2020 , 151, 509-518	7.9	8
64	Chemical structure and inhibition on α -glucosidase of the polysaccharides from <i>Cordyceps militaris</i> with different developmental stages. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 722-736	7.9	25
63	Tolerance mechanism of to Pb : response changes of related active ingredients under Pb stress.. <i>RSC Advances</i> , 2020 , 10, 5202-5211	3.7	2

62	Degradation of cell wall polysaccharides and change of related enzyme activities with fruit softening in <i>Annona squamosa</i> during storage. <i>Postharvest Biology and Technology</i> , 2020 , 166, 111203	6.2	13
61	Chemical structure and effects of antioxidation and against β -glucosidase of natural polysaccharide from <i>Glycyrrhiza inflata</i> Batalin. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 560-571	7.9	17
60	Chemical structure and inhibition on β -glucosidase of a novel polysaccharide from <i>Hypsizygus marmoreus</i> . <i>Journal of Molecular Structure</i> , 2020 , 1211, 128110	3.4	3
59	Hypoglycemic effect of glycyrrhizic acid, a natural non-carbohydrate sweetener, on streptozotocin-induced diabetic mice. <i>Food and Function</i> , 2020 , 11, 4160-4170	6.1	8
58	Chemical structure and inhibition on β -glucosidase of polysaccharide with alkaline-extracted from <i>glycyrrhiza inflata</i> residue. <i>International Journal of Biological Macromolecules</i> , 2020 , 147, 1125-1135	7.9	23
57	Structural characterization and inhibition on β -glucosidase of the polysaccharides from fruiting bodies and mycelia of <i>Pleurotus eryngii</i> . <i>International Journal of Biological Macromolecules</i> , 2020 , 156, 1512-1519	7.9	16
56	Using extracellular polysaccharides to prevent Pb-induced liver and kidney toxicity by activating Nrf2 signals and modulating gut microbiota. <i>Food and Function</i> , 2020 , 11, 9226-9239	6.1	6
55	A novel polysaccharide from <i>Pleurotus citrinopileatus</i> mycelia: Structural characterization, hypoglycemic activity and mechanism. <i>Food Bioscience</i> , 2020 , 37, 100735	4.9	9
54	Chemical structure and mechanism of polysaccharide on Pb tolerance of <i>Cordyceps militaris</i> after Pb domestication. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 958-969	7.9	3
53	Chemical structure and antioxidant activity of a polysaccharide from <i>Siraitia grosvenorii</i> . <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 1900-1910	7.9	9
52	Structural characterization and prebiotic potential of an acidic polysaccharide from. <i>Natural Product Research</i> , 2020 , 1-9	2.3	2
51	¹ H NMR-based metabonomics of the hypoglycemic effect of polysaccharides from on streptozotocin-induced diabetes in mice. <i>Natural Product Research</i> , 2020 , 34, 1366-1372	2.3	3
50	Carboxymethylation and acetylation of the polysaccharide from and their β -glucosidase inhibitory activities. <i>Natural Product Research</i> , 2020 , 34, 369-377	2.3	10
49	Changes in nutrition and related enzymes of <i>Annona squamosa</i> during storage based on carbohydrate analysis. <i>Journal of Food Processing and Preservation</i> , 2019 , 43, e13997	2.1	1
48	The effect of fermentation conditions on the structure and anti-tumor activity of polysaccharides from .. <i>RSC Advances</i> , 2019 , 9, 18205-18216	3.7	3
47	Comparisons of the anti-tumor activity of polysaccharides from fermented mycelia and cultivated fruiting bodies of <i>Cordyceps militaris</i> in vitro. <i>International Journal of Biological Macromolecules</i> , 2019 , 130, 307-314	7.9	23
46	Structure analysis and anti-fatigue activity of a polysaccharide from Walp. <i>Natural Product Research</i> , 2019 , 33, 2480-2489	2.3	8
45	Structural characterisation and ACE-inhibitory activities of polysaccharide from Blume. <i>Natural Product Research</i> , 2019 , 33, 1721-1726	2.3	12

44	Structural properties and antioxidant activities of polysaccharide from fruit bodies of. <i>Natural Product Research</i> , 2019 , 33, 1563-1569	2.3	4
43	Structural characterization and antitumor activity of a novel Se-polysaccharide from selenium-enriched <i>Cordyceps gunnii</i> . <i>Food and Function</i> , 2018 , 9, 2744-2754	6.1	32
42	Taxonomy characterization and plumbum bioremediation of novel fungi. <i>Journal of Basic Microbiology</i> , 2018 , 58, 368-376	2.7	5
41	Structural analysis and antioxidant activity of the glycoside from Imperial Chrysanthemum. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 1581-1590	2.9	8
40	The chemical structure and anti-aging bioactivity of an acid polysaccharide obtained from rose buds. <i>Food and Function</i> , 2018 , 9, 2300-2312	6.1	42
39	Structural characterization and inhibition on α -glucosidase of a novel oligosaccharide from barley malt. <i>Journal of Cereal Science</i> , 2018 , 82, 82-93	3.8	7
38	The preparation of three selenium-containing <i>Cordyceps militaris</i> polysaccharides: Characterization and anti-tumor activities. <i>International Journal of Biological Macromolecules</i> , 2017 , 99, 196-204	7.9	56
37	Anti-tumor effect of polysaccharide from <i>Hirsutella sinensis</i> on human non-small cell lung cancer and nude mice through intrinsic mitochondrial pathway. <i>International Journal of Biological Macromolecules</i> , 2017 , 99, 258-264	7.9	29
36	Preliminary characterization and immunostimulatory activity of a novel functional polysaccharide from <i>Astragalus</i> residue fermented by <i>Paecilomyces sinensis</i> . <i>RSC Advances</i> , 2017 , 7, 23875-23881	3.7	13
35	Characterization and lymphocyte proliferation activity of an oligosaccharide degraded from <i>Astragalus</i> polysaccharide. <i>MedChemComm</i> , 2017 , 8, 1521-1530	5	9
34	Structural characterization and inhibition on α -glucosidase activity of acidic polysaccharide from <i>Annona squamosa</i> . <i>Carbohydrate Polymers</i> , 2017 , 174, 1-12	10.3	72
33	Chromatographic analysis and preparation of l-arabinose from corncob by acid hydrolysis. <i>Industrial Crops and Products</i> , 2017 , 95, 163-169	5.9	6
32	Structural characterization and inhibition on α -glucosidase activity of non-starch polysaccharides from <i>Fagopyrum tartaricum</i> . <i>Carbohydrate Polymers</i> , 2016 , 153, 679-685	10.3	46
31	Preparation and activity evaluation of chrysin- β -D-galactopyranoside. <i>Archives of Pharmacal Research</i> , 2016 , 39, 1433-1440	6.1	3
30	Immunostimulatory activity of glycopeptides from <i>Paecilomyces sinensis</i> under normal and cyclophosphamide induced immunosuppressive conditions in mice models. <i>Food and Function</i> , 2016 , 7, 3566-76	6.1	18
29	Effects of cultural medium on the formation and antitumor activity of polysaccharides by <i>Cordyceps gunnii</i> . <i>Journal of Bioscience and Bioengineering</i> , 2016 , 122, 494-8	3.3	8
28	Efficient synthesis and activity of beneficial intestinal flora of two lactulose-derived oligosaccharides. <i>European Journal of Medicinal Chemistry</i> , 2016 , 114, 8-13	6.8	9
27	Influence of fermentation conditions on polysaccharide production and the activities of enzymes involved in the polysaccharide synthesis of <i>Cordyceps militaris</i> . <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 3909-21	5.7	26

26	Effects of extraction methods on the yield, chemical structure and anti-tumor activity of polysaccharides from <i>Cordyceps gunnii</i> mycelia. <i>Carbohydrate Polymers</i> , 2016 , 140, 461-71	10.3	89
25	Structural properties of polysaccharides from cultivated fruit bodies and mycelium of <i>Cordyceps militaris</i> . <i>Carbohydrate Polymers</i> , 2016 , 142, 63-72	10.3	105
24	Structural characterization and anti-tumor activity of polysaccharide produced by <i>Hirsutella sinensis</i> . <i>International Journal of Biological Macromolecules</i> , 2016 , 82, 959-66	7.9	26
23	Structural analysis and immunostimulatory activity of glycopeptides from <i>Paecilomyces sinensis</i> . <i>Food and Function</i> , 2016 , 7, 1593-600	6.1	11
22	Selenium modification of β -lactoglobulin (β Lg) and its biological activity. <i>Food Chemistry</i> , 2016 , 204, 246-251	8.5	20
21	Synthesis and Antitumor Activity of a New Ergosterol Derivative. <i>Chemistry of Natural Compounds</i> , 2016 , 52, 252-255	0.7	1
20	Effects of the ultra-high pressure on structure and β -glucosidase inhibition of polysaccharide from <i>Astragalus</i> . <i>International Journal of Biological Macromolecules</i> , 2016 , 87, 570-6	7.9	20
19	Mammalian elongation factor 4 regulates mitochondrial translation essential for spermatogenesis. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 441-9	17.6	30
18	Preparation and inhibition on β -glucosidase of low molecular weight polysaccharide from <i>Cordyceps militaris</i> . <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 27-33	7.9	24
17	Synthesis, characterization and antioxidant activity of selenium polysaccharide from <i>Cordyceps militaris</i> . <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1090-1099	7.9	60
16	Preparation, characterization and bioactivity of xylobiose and xylotriose from corncob xylan by xylanase. <i>European Food Research and Technology</i> , 2015 , 241, 27-35	3.4	9
15	Synthesis and antitumor activity evaluation of chrysin derivatives. <i>European Journal of Medicinal Chemistry</i> , 2014 , 75, 297-300	6.8	28
14	Effect of ultrasonic treatment on structure and antitumor activity of mycelial polysaccharides from <i>Cordyceps gunnii</i> . <i>Carbohydrate Polymers</i> , 2014 , 114, 12-20	10.3	45
13	Comparative evaluation of polysaccharides isolated from <i>Astragalus</i> , oyster mushroom, and yacon as inhibitors of β -glucosidase. <i>Chinese Journal of Natural Medicines</i> , 2014 , 12, 290-3	2.8	22
12	Sulfated modification of the polysaccharide from <i>Cordyceps_gunnii</i> mycelia and its biological activities. <i>Carbohydrate Polymers</i> , 2013 , 92, 872-6	10.3	36
11	Highly efficient synthesis and antitumor activity of monosaccharide saponins mimicking components of Chinese folk medicine <i>Cordyceps sinensis</i> . <i>Journal of Asian Natural Products Research</i> , 2012 , 14, 429-35	1.5	7
10	Immunomodulatory effect of polysaccharides from submerged cultured <i>Cordyceps gunnii</i> . <i>Pharmaceutical Biology</i> , 2012 , 50, 1103-10	3.8	20
9	Chemical analysis of a polysaccharide from <i>Cristaria plicata</i> (Leach). <i>International Journal of Food Sciences and Nutrition</i> , 2012 , 63, 506-11	3.7	2

8	Structure and anti-tumor activity of a high-molecular-weight polysaccharide from cultured mycelium of <i>Cordyceps gunnii</i> . <i>Carbohydrate Polymers</i> , 2012 , 88, 1072-1076	10.3	47
7	The chromatographic analysis of oligosaccharides and preparation of 1-kestose and nystose in yacon. <i>International Journal of Food Sciences and Nutrition</i> , 2012 , 63, 338-42	3.7	8
6	THE PURIFICATION AND ANTIOXIDATIVE ACTIVITIES IN D-GALACTOSE-INDUCED AGING MICE OF A WATER-SOLUBLE POLYSACCHARIDE FROM CORDYCEPS GUNNII (BERK.) BERK. MYCELIUM. <i>Journal of Food Biochemistry</i> , 2011 , 35, 303-322	3.3	12
5	Chemical constituents with antioxidant activity from the pericarps of <i>Juglans sigillata</i> . <i>Chemistry of Natural Compounds</i> , 2011 , 47, 442-445	0.7	14
4	Structural analysis and anti-tumor activity comparison of polysaccharides from <i>Astragalus</i> . <i>Carbohydrate Polymers</i> , 2011 , 85, 895-902	10.3	93
3	Regio- and Stereo-selective Synthesis of Peracetylated Carbohydrate Esters of Aromatic Fatty Acid Using p-Toluenesulfonic Acid as Catalyst. <i>Chinese Journal of Chemistry</i> , 2010 , 28, 2245-2248	4.9	3
2	Apigenin derivatives from <i>Paulownia tomentosa</i> Steud. var. <i>tomentosa</i> stem barks. <i>Holzforschung</i> , 2009 , 63,	2	8
1	Synthesis of Protected N-Acetylchitooligosaccharide and Its Analogues: A Versatile Approach for the Synthesis of Complex Oligosaccharides of 2-Amino-2-deoxy Sugar. <i>Chinese Journal of Chemistry</i> , 2008 , 26, 1519-1522	4.9	10