Zhen-Yuan Zhu

List of Publications by Citations

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	Structural properties of polysaccharides from cultivated fruit bodies and mycelium of Cordyceps militaris. *Carbohydrate Polymers*, **2016**, 142, 63-72	10.3	105
78	Structural analysis and anti-tumor activity comparison of polysaccharides from Astragalus. *Carbohydrate Polymers*, **2011**, 85, 895-902	10.3	93
77	Effects of extraction methods on the yield, chemical structure and anti-tumor activity of polysaccharides from Cordyceps gunnii mycelia. *Carbohydrate Polymers*, **2016**, 140, 461-71	10.3	89
76	Structural characterization and inhibition on □-glucosidase activity of acidic polysaccharide from Annona squamosa. *Carbohydrate Polymers*, **2017**, 174, 1-12	10.3	72
75	Synthesis, characterization and antioxidant activity of selenium polysaccharide from Cordyceps militaris. *International Journal of Biological Macromolecules*, **2016**, 93, 1090-1099	7.9	60
74	The preparation of three selenium-containing Cordyceps militaris polysaccharides: Characterization and anti-tumor activities. *International Journal of Biological Macromolecules*, **2017**, 99, 196-204	7.9	56
73	Structure and anti-tumor activity of a high-molecular-weight polysaccharide from cultured mycelium of Cordyceps gunnii. *Carbohydrate Polymers*, **2012**, 88, 1072-1076	10.3	47
72	Structural characterization and inhibition on □-glucosidase activity of non-starch polysaccharides from Fagopyrum tartaricum. *Carbohydrate Polymers*, **2016**, 153, 679-685	10.3	46
71	Effect of ultrasonic treatment on structure and antitumor activity of mycelial polysaccharides from Cordyceps gunnii. *Carbohydrate Polymers*, **2014**, 114, 12-20	10.3	45
70	The chemical structure and anti-aging bioactivity of an acid polysaccharide obtained from rose buds. *Food and Function*, **2018**, 9, 2300-2312	6.1	42
69	Sulfated modification of the polysaccharide from Cordyceps_gunnii mycelia and its biological activities. *Carbohydrate Polymers*, **2013**, 92, 872-6	10.3	36
68	Structural characterization and antitumor activity of a novel Se-polysaccharide from selenium-enriched Cordyceps gunnii. *Food and Function*, **2018**, 9, 2744-2754	6.1	32
67	Mammalian elongation factor 4 regulates mitochondrial translation essential for spermatogenesis. *Nature Structural and Molecular Biology*, **2016**, 23, 441-9	17.6	30
66	Anti-tumor effect of polysaccharide from Hirsutella sinensis on human non-small cell lung cancer and nude mice through intrinsic mitochondrial pathway. *International Journal of Biological Macromolecules*, **2017**, 99, 258-264	7.9	29
65	Synthesis and antitumor activity evaluation of chrysin derivatives. *European Journal of Medicinal Chemistry*, **2014**, 75, 297-300	6.8	28
64	Influence of fermentation conditions on polysaccharide production and the activities of enzymes involved in the polysaccharide synthesis of Cordyceps militaris. *Applied Microbiology and Biotechnology*, **2016**, 100, 3909-21	5.7	26
63	Structural characterization and anti-tumor activity of polysaccharide produced by Hirsutella sinensis. *International Journal of Biological Macromolecules*, **2016**, 82, 959-66	7.9	26

62	Chemical structure and inhibition on □glucosidase of the polysaccharides from Cordyceps militaris with different developmental stages. *International Journal of Biological Macromolecules*, **2020**, 148, 722-736	7.9	25
61	Preparation and inhibition on □d-glucosidase of low molecular weight polysaccharide from Cordyceps militaris. *International Journal of Biological Macromolecules*, **2016**, 93, 27-33	7.9	24
60	Chemical structure and inhibition on □glucosidase of polysaccharide with alkaline-extracted from glycyrrhiza inflata residue. *International Journal of Biological Macromolecules*, **2020**, 147, 1125-1135	7.9	23
59	Comparisons of the anti-tumor activity of polysaccharides from fermented mycelia and cultivated fruiting bodies of Cordyceps militaris in vitro. *International Journal of Biological Macromolecules*, **2019**, 130, 307-314	7.9	23
58	Comparative evaluation of polysaccharides isolated from Astragalus, oyster mushroom, and yacon as inhibitors of □glucosidase. *Chinese Journal of Natural Medicines*, **2014**, 12, 290-3	2.8	22
57	Selenium modification of □actoglobulin (□Lg) and its biological activity. *Food Chemistry*, **2016**, 204, 246-251	8.5	20
56	Immunomodulatory effect of polysaccharides from submerged cultured Cordyceps gunnii. *Pharmaceutical Biology*, **2012**, 50, 1103-10	3.8	20
55	Effects of the ultra-high pressure on structure and □glucosidase inhibition of polysaccharide from Astragalus. *International Journal of Biological Macromolecules*, **2016**, 87, 570-6	7.9	20
54	Immunostimulatory activity of glycopeptides from Paecilomyces sinensis under normal and cyclophosphamide induced immunosuppressive conditions in mice models. *Food and Function*, **2016** , 7, 3566-76	6.1	18
53	Chemical structure and effects of antioxidation and against □glucosidase of natural polysaccharide from Glycyrrhiza inflata Batalin. *International Journal of Biological Macromolecules*, **2020**, 155, 560-571	7.9	17
52	Structural characterization and inhibition on □glucosidase of the polysaccharides from fruiting bodies and mycelia of Pleurotus eryngii. *International Journal of Biological Macromolecules*, **2020**, 156, 1512-1519	7.9	16
51	Chemical constituents with antioxidant activity from the pericarps of Juglans sigillata. *Chemistry of Natural Compounds*, **2011**, 47, 442-445	0.7	14
50	Preliminary characterization and immunostimulatory activity of a novel functional polysaccharide from Astragalus residue fermented by Paecilomyces sinensis. *RSC Advances*, **2017**, 7, 23875-23881	3.7	13
49	Degradation of cell wall polysaccharides and change of related enzyme activities with fruit softening in Annona squamosa during storage. *Postharvest Biology and Technology*, **2020**, 166, 111203	6.2	13
48	THE PURIFICATION AND ANTIOXIDATIVE ACTIVITIES IN D-GALACTOSE-INDUCED AGING MICE OF A WATER-SOLUBLE POLYSACCHARIDE FROM CORDYCEPS GUNNII (BERK.) BERK. MYCELIUM. *Journal of Food Biochemistry*, **2011**, 35, 303-322	3.3	12
47	Structural characterisation and ACE-inhibitory activities of polysaccharide from Blume. *Natural Product Research*, **2019**, 33, 1721-1726	2.3	12
46	Structural analysis and immunostimulatory activity of glycopeptides from Paecilomyces sinensis. *Food and Function*, **2016**, 7, 1593-600	6.1	11
45	Structure analysis and antioxidant activity of polysaccharide-iron (III) from Cordyceps militaris mycelia. *International Journal of Biological Macromolecules*, **2021**, 178, 170-179	7.9	11

44	Extraction, purification, structural characterization, and antioxidant activity of polysaccharides from Wheat Bran. *Journal of Molecular Structure*, **2021**, 1233, 130096	3.4	11
43	A novel acid polysaccharide from fermented broth of Pleurotus citrinopileatus: Hypoglycemic activity in□vitro and chemical structure. *Journal of Molecular Structure*, **2020**, 1220, 128717	3.4	10
42	Synthesis of Protected N-Acetylchitooligosaccharide and Its Analogues: A Versatile Approach for the Synthesis of Complex Oligosaccharides of 2-Amino-2-deoxy Sugar. *Chinese Journal of Chemistry*, **2008**, 26, 1519-1522	4.9	10
41	Carboxymethylation and acetylation of the polysaccharide from and their □-glucosidase inhibitory activities. *Natural Product Research*, **2020**, 34, 369-377	2.3	10
40	Structure and hypoglycemic activity of a novel exopolysaccharide of Cordyceps militaris. *International Journal of Biological Macromolecules*, **2021**, 166, 496-508	7.9	10
39	Characterization and lymphocyte proliferation activity of an oligosaccharide degraded from Astragalus polysaccharide. *MedChemComm*, **2017**, 8, 1521-1530	5	9
38	Preparation, characterization and bioactivity of xylobiose and xylotriose from corncob xylan by xylanase. *European Food Research and Technology*, **2015**, 241, 27-35	3.4	9
37	Efficient synthesis and activity of beneficial intestinal flora of two lactulose-derived oligosaccharides. *European Journal of Medicinal Chemistry*, **2016**, 114, 8-13	6.8	9
36	A novel polysaccharide from Pleurotus citrinopileatus mycelia: Structural characterization, hypoglycemic activity and mechanism. *Food Bioscience*, **2020**, 37, 100735	4.9	9
35	Chemical structure and antioxidant activity of a polysaccharide from Siraitia grosvenorii. *International Journal of Biological Macromolecules*, **2020**, 165, 1900-1910	7.9	9
34	Function and mechanism of polysaccharide on enhancing tolerance of Trichoderma asperellum under Pb stress. *International Journal of Biological Macromolecules*, **2020**, 151, 509-518	7.9	8
33	Hypoglycemic effect of glycyrrhizic acid, a natural non-carbohydrate sweetener, on streptozotocin-induced diabetic mice. *Food and Function*, **2020**, 11, 4160-4170	6.1	8
32	Structural analysis and antioxidant activity of the glycoside from Imperial Chrysanthemum. *Bioorganic and Medicinal Chemistry Letters*, **2018**, 28, 1581-1590	2.9	8
31	Effects of cultural medium on the formation and antitumor activity of polysaccharides by Cordyceps gunnii. *Journal of Bioscience and Bioengineering*, **2016**, 122, 494-8	3.3	8
30	Apigenin derivatives from Paulownia tomentosa Steud. var. tomentosa stem barks. *Holzforschung*, **2009**, 63,	2	8
29	The chromatographic analysis of oligosaccharides and preparation of 1-kestose and nystose in yacon. *International Journal of Food Sciences and Nutrition*, **2012**, 63, 338-42	3.7	8
28	Structure analysis and anti-fatigue activity of a polysaccharide from Walp. *Natural Product Research*, **2019**, 33, 2480-2489	2.3	8
27	Highly efficient synthesis and antitumor activity of monosaccharide saponins mimicking components of Chinese folk medicine Cordyceps sinensis. *Journal of Asian Natural Products Research*, **2012**, 14, 429-35	1.5	7

26	Structural characterization and inhibition on -glucosidase of a novel oligosaccharide from barley malt. *Journal of Cereal Science*, **2018**, 82, 82-93	3.8	7
25	Chromatographic analysis and preparation of l-arabinose from corncob by acid hydrolysis. *Industrial Crops and Products*, **2017**, 95, 163-169	5.9	6
24	Using extracellular polysaccharides to prevent Pb-induced liver and kidney toxicity by activating Nrf2 signals and modulating gut microbiota. *Food and Function*, **2020**, 11, 9226-9239	6.1	6
23	Structural characterization and inhibitions on -glucosidase and -amylase of alkali-extracted water-soluble polysaccharide from Annona squamosa residue. *International Journal of Biological Macromolecules*, **2021**, 166, 730-740	7.9	6
22	Taxonomy characterization and plumbum bioremediation of novel fungi. *Journal of Basic Microbiology*, **2018**, 58, 368-376	2.7	5
21	Effects of Na2SeO3 on growth, metabolism, antioxidase and enzymes involved in polysaccharide synthesis of Cordyceps militaris. *Process Biochemistry*, **2020**, 97, 64-71	4.8	4
20	Structural properties and antioxidant activities of polysaccharide from fruit bodies of. *Natural Product Research*, **2019**, 33, 1563-1569	2.3	4
19	Chemical structure and inhibition on -glucosidase of a novel polysaccharide from Hypsizygus marmoreus. *Journal of Molecular Structure*, **2020**, 1211, 128110	3.4	3
18	Preparation and activity evaluation of chrysin--D-galactopyranoside. *Archives of Pharmacal Research*, **2016**, 39, 1433-1440	6.1	3
17	The effect of fermentation conditions on the structure and anti-tumor activity of polysaccharides from .. *RSC Advances*, **2019**, 9, 18205-18216	3.7	3
16	Regio- and Stereo-selective Synthesis of Peracetylated Carbohydrate Esters of Aromatic Fatty Acid Using p-Toluenesulfonic Acid as Catalyst. *Chinese Journal of Chemistry*, **2010**, 28, 2245-2248	4.9	3
15	Chemical structure and mechanism of polysaccharide on Pb tolerance of Cordyceps militaris after Pb domestication. *International Journal of Biological Macromolecules*, **2020**, 165, 958-969	7.9	3
14	H NMR-based metabonomics of the hypoglycemic effect of polysaccharides from on streptozotocin-induced diabetes in mice. *Natural Product Research*, **2020**, 34, 1366-1372	2.3	3
13	Tolerance mechanism of to Pb: response changes of related active ingredients under Pb stress.. *RSC Advances*, **2020**, 10, 5202-5211	3.7	2
12	Chemical analysis of a polysaccharide from Cristaria plicata (Leach). *International Journal of Food Sciences and Nutrition*, **2012**, 63, 506-11	3.7	2
11	Structural characterization and prebiotic potential of an acidic polysaccharide from. *Natural Product Research*, **2020**, 1-9	2.3	2
10	Effect of steam explosion pretreatment on the structure and bioactivity of Ampelopsis grossedentata polysaccharides. *International Journal of Biological Macromolecules*, **2021**, 185, 194-205	7.9	2
9	Changes in nutrition and related enzymes of Annona squamosa during storage based on carbohydrate analysis. *Journal of Food Processing and Preservation*, **2019**, 43, e13997	2.1	1

8	Preparation, structure and β-glucosidase inhibitory of oligosaccharides by enzymatic hydrolysis from Annona squamosa polysaccharide. *Industrial Crops and Products*, **2022**, 177, 114468	5.9	1
7	Synthesis and Antitumor Activity of a New Ergosterol Derivative. *Chemistry of Natural Compounds*, **2016**, 52, 252-255	0.7	1
6	Enzymatic characterization and validation of gene expression of phosphoglucomutase from Cordyceps militaris. *Biotechnology Letters*, **2021**, 43, 177-192	3	1
5	Synthesis and inhibition of β-glucosidase of methyl glycyrrhetinate glycosides. *Natural Product Research*, **2021**, 35, 1874-1880	2.3	1
4	Structure, antioxidant property and protection on PC12 of a polysaccharide isolated and screened from L.Moench (okra). *Natural Product Research*, **2021**, 1-7	2.3	1
3	Comparison of response mechanism of ordinary Cordyceps militaris and domesticated Cordyceps militaris to Pb2+ stress. *Process Biochemistry*, **2021**, 107, 112-120	4.8	1
2	Dihydromyricetin from Ampelopsis grossedentata and its derivatives: Structural characterization and anti-hepatocellular carcinoma activity. *Journal of Molecular Structure*, **2022**, 1258, 132677	3.4	
1	Structure analysis and Pb2+-resistant activity of novel oligosaccharide from Trichoderma asperellum. *Journal of Molecular Structure*, **2022**, 1261, 132893	3.4	