

# Zhen-Yuan Zhu

## List of Publications by Year in descending order

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83  
papers

2,324  
citations

186209

28  
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243529

44  
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84  
docs citations

84  
times ranked

2069  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural properties of polysaccharides from cultivated fruit bodies and mycelium of <i>Cordyceps militaris</i> . <i>Carbohydrate Polymers</i> , 2016, 142, 63-72.	5.1	137
2	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, 461-471.	5.1	127
3	Structural analysis and anti-tumor activity comparison of polysaccharides from <i>Astragalus</i> . <i>Carbohydrate Polymers</i> , 2011, 85, 895-902.	5.1	107
4	Structural characterization and inhibition on $\alpha$ -glucosidase activity of acidic polysaccharide from <i>Annona squamosa</i> . <i>Carbohydrate Polymers</i> , 2017, 174, 1-12.	5.1	106
5	Synthesis, characterization and antioxidant activity of selenium polysaccharide from <i>Cordyceps militaris</i> . <i>International Journal of Biological Macromolecules</i> , 2016, 93, 1090-1099.	3.6	83
6	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.	3.6	79
7	The chemical structure and anti-aging bioactivity of an acid polysaccharide obtained from <i>rose</i> buds. <i>Food and Function</i> , 2018, 9, 2300-2312.	2.1	72
8	Structural characterization and inhibition on $\alpha$ -d-glucosidase activity of non-starch polysaccharides from <i>Fagopyrum tartaricum</i> . <i>Carbohydrate Polymers</i> , 2016, 153, 679-685.	5.1	67
9	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.	5.1	59
10	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.	2.9	57
11	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.	5.1	56
12	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.	2.1	53
13	Chemical structure and inhibition on $\alpha$ -glucosidase of polysaccharide with alkaline-extracted from <i>glycyrrhiza inflata</i> residue. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 1125-1135.	3.6	49
14	Chemical structure and inhibition on $\alpha$ -glucosidase of the polysaccharides from <i>Cordyceps militaris</i> with different developmental stages. <i>International Journal of Biological Macromolecules</i> , 2020, 148, 722-736.	3.6	45
15	Sulfated modification of the polysaccharide from <i>Cordyceps_gunnii</i> mycelia and its biological activities. <i>Carbohydrate Polymers</i> , 2013, 92, 872-876.	5.1	43
16	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.	3.6	43
17	Extraction, purification, structural characterization, and antioxidant activity of polysaccharides from Wheat Bran. <i>Journal of Molecular Structure</i> , 2021, 1233, 130096.	1.8	43
18	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.	3.6	41

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19	Chemical structure and effects of antioxidation and against $\alpha$ -glucosidase of natural polysaccharide from <i>Glycyrrhiza inflata</i> Batalin. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 560-571.	3.6	41
20	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.	3.6	41
21	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, 3909-3921.	1.7	39
22	Mammalian elongation factor 4 regulates mitochondrial translation essential for spermatogenesis. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 441-449.	3.6	38
23	Chemical structure and antioxidant activity of a polysaccharide from <i>Siraitia grosvenorii</i> . <i>International Journal of Biological Macromolecules</i> , 2020, 165, 1900-1910.	3.6	36
24	Synthesis and antitumor activity evaluation of chrysin derivatives. <i>European Journal of Medicinal Chemistry</i> , 2014, 75, 297-300.	2.6	32
25	Preparation and inhibition on $\alpha$ -D-glucosidase of low molecular weight polysaccharide from <i>Cordyceps militaris</i> . <i>International Journal of Biological Macromolecules</i> , 2016, 93, 27-33.	3.6	32
26	Structural characterization and inhibition on $\alpha$ -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.	3.6	32
27	Comparative evaluation of polysaccharides isolated from <i>Astragalus</i> , oyster mushroom, and yacon as inhibitors of $\alpha$ -glucosidase. <i>Chinese Journal of Natural Medicines</i> , 2014, 12, 290-293.	0.7	30
28	Effects of the ultra-high pressure on structure and $\alpha$ -glucosidase inhibition of polysaccharide from <i>Astragalus</i> . <i>International Journal of Biological Macromolecules</i> , 2016, 87, 570-576.	3.6	30
29	Structural characterization and anti-tumor activity of polysaccharide produced by <i>Hirsutella sinensis</i> . <i>International Journal of Biological Macromolecules</i> , 2016, 82, 959-966.	3.6	30
30	Using <i>Cordyceps militaris</i> extracellular polysaccharides to prevent Pb <sup>2+</sup> -induced liver and kidney toxicity by activating Nrf2 signals and modulating gut microbiota. <i>Food and Function</i> , 2020, 11, 9226-9239.	2.1	29
31	Structure and hypoglycemic activity of a novel exopolysaccharide of <i>Cordyceps militaris</i> . <i>International Journal of Biological Macromolecules</i> , 2021, 166, 496-508.	3.6	29
32	Structural characterization and inhibitions on $\alpha$ -glucosidase and $\alpha$ -amylase of alkali-extracted water-soluble polysaccharide from <i>Annona squamosa</i> residue. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 730-740.	3.6	28
33	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, 3566-3576.	2.1	27
34	Carboxymethylation and acetylation of the polysaccharide from <i>Cordyceps militaris</i> and their $\alpha$ -glucosidase inhibitory activities. <i>Natural Product Research</i> , 2020, 34, 369-377.	1.0	27
35	A novel acid polysaccharide from fermented broth of <i>Pleurotus citrinopileatus</i> : Hypoglycemic activity in vitro and chemical structure. <i>Journal of Molecular Structure</i> , 2020, 1220, 128717.	1.8	27
36	A novel polysaccharide from <i>Pleurotus citrinopileatus</i> mycelia: Structural characterization, hypoglycemic activity and mechanism. <i>Food Bioscience</i> , 2020, 37, 100735.	2.0	26

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37	Structural characterisation and ACE-inhibitory activities of polysaccharide from <i>Gastrodia elata</i> Blume. <i>Natural Product Research</i> , 2019, 33, 1721-1726.	1.0	25
38	Immunomodulatory effect of polysaccharides from submerged cultured <i>Cordyceps gunnii</i> . <i>Pharmaceutical Biology</i> , 2012, 50, 1103-1110.	1.3	23
39	Hypoglycemic effect of glycyrrhizic acid, a natural non-carbohydrate sweetener, on streptozotocin-induced diabetic mice. <i>Food and Function</i> , 2020, 11, 4160-4170.	2.1	23
40	Selenium modification of $\beta$ -lactoglobulin ( $\beta$ -Lg) and its biological activity. <i>Food Chemistry</i> , 2016, 204, 246-251.	4.2	22
41	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.	3.6	21
42	Structure analysis and anti-fatigue activity of a polysaccharide from <i>Lepidium meyenii</i> Walp. <i>Natural Product Research</i> , 2019, 33, 2480-2489.	1.0	20
43	Chemical constituents with antioxidant activity from the pericarps of <i>Juglans sigillata</i> . <i>Chemistry of Natural Compounds</i> , 2011, 47, 442-445.	0.2	16
44	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.	1.7	16
45	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, 494-498.	1.1	14
46	Efficient synthesis and activity of beneficial intestinal flora of two lactulose-derived oligosaccharides. <i>European Journal of Medicinal Chemistry</i> , 2016, 114, 8-13.	2.6	14
47	Structural analysis and immunostimulatory activity of glycopeptides from <i>Paecilomyces sinensis</i> . <i>Food and Function</i> , 2016, 7, 1593-1600.	2.1	14
48	THE PURIFICATION AND ANTIOXIDATIVE ACTIVITIES IN D-GALACTOSE-INDUCED AGING MICE OF A WATER-SOLUBLE POLYSACCHARIDE FROM <i>CORDYCEPS GUNNII</i> (BERK.) BERK. MYCELIUM. <i>Journal of Food Biochemistry</i> , 2011, 35, 303-322.	1.2	13
49	The effect of fermentation conditions on the structure and anti-tumor activity of polysaccharides from <i>Cordyceps gunnii</i> . <i>RSC Advances</i> , 2019, 9, 18205-18216.	1.7	13
50	Function and mechanism of polysaccharide on enhancing tolerance of <i>Trichoderma asperellum</i> under $Pb^{2+}$ stress. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 509-518.	3.6	13
51	Structural characterization and protective effect on PC12 cells against $H_2O_2$ -induced oxidative damage of a polysaccharide extracted from mycelia of <i>Lactarius deliciosus</i> Gray. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 1815-1825.	3.6	13
52	Apigenin derivatives from <i>Paulownia tomentosa</i> Steud. var. <i>tomentosa</i> stem barks. <i>Holzforschung</i> , 2009, 63, 440-442.	0.9	12
53	Preparation, characterization and bioactivity of xylobiose and xylotriose from corn cob xylan by xylanase. <i>European Food Research and Technology</i> , 2015, 241, 27-35.	1.6	12
54	Characterization and lymphocyte proliferation activity of an oligosaccharide degraded from <i>Astragalus</i> polysaccharide. <i>MedChemComm</i> , 2017, 8, 1521-1530.	3.5	12

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55	<sup>1</sup> H NMR-based metabonomics of the hypoglycemic effect of polysaccharides from <i>Cordyceps militaris</i> on streptozotocin-induced diabetes in mice. <i>Natural Product Research</i> , 2020, 34, 1366-1372.	1.0	12
56	Chemical structure and inhibition on $\alpha$ -glucosidase of a novel polysaccharide from <i>Hypsizygus marmoreus</i> . <i>Journal of Molecular Structure</i> , 2020, 1211, 128110.	1.8	12
57	Structural analysis and antioxidant activity of the glycoside from <i>Imperial Chrysanthemum</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 1581-1590.	1.0	11
58	Effects of Na <sub>2</sub> SeO <sub>3</sub> on growth, metabolism, antioxidant and enzymes involved in polysaccharide synthesis of <i>Cordyceps militaris</i> . <i>Process Biochemistry</i> , 2020, 97, 64-71.	1.8	11
59	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.	2.6	10
60	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, 338-342.	1.3	10
61	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, 429-435.	0.7	10
62	Structural characterization and inhibition on $\alpha$ -glucosidase of a novel oligosaccharide from barley malt. <i>Journal of Cereal Science</i> , 2018, 82, 82-93.	1.8	10
63	Structural characterization and prebiotic potential of an acidic polysaccharide from <i>Imperial Chrysanthemum</i> . <i>Natural Product Research</i> , 2022, 36, 586-594.	1.0	9
64	Preparation, structure and $\alpha$ -glucosidase inhibitory of oligosaccharides by enzymatic hydrolysis from <i>Annona squamosa</i> polysaccharide. <i>Industrial Crops and Products</i> , 2022, 177, 114468.	2.5	9
65	Structural properties and antioxidant activities of polysaccharide from fruit bodies of <i>Pholiota nameko</i> . <i>Natural Product Research</i> , 2019, 33, 1563-1569.	1.0	8
66	Structure, antioxidant property and protection on PC12 of a polysaccharide isolated and screened from <i>Abelmoschus esculentus</i> L.Moench (okra). <i>Natural Product Research</i> , 2022, 36, 1441-1447.	1.0	8
67	Preparation and antibacterial effect of chitooligosaccharides monomers with different polymerization degrees from crab shell chitosan by enzymatic hydrolysis. <i>Biotechnology and Applied Biochemistry</i> , 2023, 70, 164-174.	1.4	8
68	Regio- and Stereo-selective Synthesis of Peracetylated Carbohydrate Esters of Aromatic Fatty Acid Using <i>p</i> -Toluenesulfonic Acid as Catalyst. <i>Chinese Journal of Chemistry</i> , 2010, 28, 2245-2248.	2.6	7
69	Chemical structure and mechanism of polysaccharide on Pb <sup>2+</sup> tolerance of <i>Cordyceps militaris</i> after Pb <sup>2+</sup> domestication. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 958-969.	3.6	7
70	Chromatographic analysis and preparation of l-arabinose from corncob by acid hydrolysis. <i>Industrial Crops and Products</i> , 2017, 95, 163-169.	2.5	6
71	Tolerance mechanism of <i>Trichoderma asperellum</i> to Pb <sup>2+</sup> : response changes of related active ingredients under Pb <sup>2+</sup> stress. <i>RSC Advances</i> , 2020, 10, 5202-5211.	1.7	6
72	Comparison of structural and antioxidant activity of polysaccharide extracted from truffles. <i>Journal of Food Science</i> , 2022, 87, 2999-3012.	1.5	6

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73	Taxonomy characterization and plumbum bioremediation of novel fungi. <i>Journal of Basic Microbiology</i> , 2018, 58, 368-376.	1.8	5
74	Chemical analysis of a polysaccharide from <i>Cristaria plicata</i> (Leach). <i>International Journal of Food Sciences and Nutrition</i> , 2012, 63, 506-511.	1.3	4
75	Preparation and activity evaluation of chrysin- $\beta$ -d-galactopyranoside. <i>Archives of Pharmacal Research</i> , 2016, 39, 1433-1440.	2.7	4
76	Enzymatic characterization and validation of gene expression of phosphoglucomutase from <i>Cordyceps militaris</i> . <i>Biotechnology Letters</i> , 2021, 43, 177-192.	1.1	3
77	Synthesis and inhibition of $\beta$ -glucosidase of methyl glycyrrhetinate glycosides. <i>Natural Product Research</i> , 2021, 35, 1874-1880.	1.0	3
78	Effects of postharvest treatment with pullulan, calcium chloride, and chitosan on quality and sugar metabolism of <i>Annona squamosa</i> during storage. <i>Journal of Food Processing and Preservation</i> , 2022, 46, .	0.9	3
79	Comparison of response mechanism of ordinary <i>Cordyceps militaris</i> and domesticated <i>Cordyceps militaris</i> to Pb <sup>2+</sup> stress. <i>Process Biochemistry</i> , 2021, 107, 112-120.	1.8	2
80	Synthesis and Antitumor Activity of a New Ergosterol Derivative. <i>Chemistry of Natural Compounds</i> , 2016, 52, 252-255.	0.2	1
81	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.	0.9	1
82	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.	1.8	1
83	Structure analysis and Pb <sup>2+</sup> -resistant activity of novel oligosaccharide from <i>Trichoderma asperellum</i> . <i>Journal of Molecular Structure</i> , 2022, 1261, 132893.	1.8	0