

Zhen-Yuan Zhu

List of Publications by Year in descending order

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papers

2,613
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132755

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h-index

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g-index

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all docs

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docs citations

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times ranked

2328
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.	10.3	145
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.	10.3	132
3	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	114
4	Structural analysis and anti-tumor activity comparison of polysaccharides from <i>Astragalus</i> . <i>Carbohydrate Polymers</i> , 2011, 85, 895-902.	10.3	109
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.	7.6	93
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.	7.6	87
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.	4.6	73
8	Structural characterization and inhibition on α -d-glucosidase activity of non-starch polysaccharides from <i>Fagopyrum tartaricum</i> . <i>Carbohydrate Polymers</i> , 2016, 153, 679-685.	10.3	69
9	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.	6.0	69
10	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	62
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.	10.3	58
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.	4.6	55
13	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.	7.6	51
14	Extraction, purification, structural characterization, and antioxidant activity of polysaccharides from Wheat Bran. <i>Journal of Molecular Structure</i> , 2021, 1233, 130096.	3.7	51
15	Chemical structure and inhibition on α -glucosidase of polysaccharide with alkaline-extracted from <i>glycyrrhiza inflata</i> residue. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 1125-1135.	7.6	50
16	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.	7.6	49
17	Chemical structure and effects of antioxidation and against α -glucosidase of natural polysaccharide from <i>Glycyrrhiza inflata</i> Batalin. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 560-571.	7.6	46
18	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.	3.6	44

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19	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.	7.6	44
20	Excitonic Au ₄ Ru ₂ (PPH ₃) ₂ (SC ₂ H ₄ Ph) ₈ cluster for light-driven dinitrogen fixation. <i>Chemical Science</i> , 2020, 11, 2440-2447.	7.5	44
21	Sulfated modification of the polysaccharide from <i>Cordyceps_gunnii</i> mycelia and its biological activities. <i>Carbohydrate Polymers</i> , 2013, 92, 872-876.	10.3	43
22	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.	7.6	43
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.	7.6	43
24	Mammalian elongation factor 4 regulates mitochondrial translation essential for spermatogenesis. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 441-449.	7.8	39
25	Three resampling approaches based on method of fragments for daily sub-daily precipitation disaggregation. <i>International Journal of Climatology</i> , 2018, 38, e1119.	3.4	38
26	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.	7.6	36
27	Preparation and inhibition on α -d-glucosidase of low molecular weight polysaccharide from <i>Cordyceps militaris</i> . <i>International Journal of Biological Macromolecules</i> , 2016, 93, 27-33.	7.6	35
28	Effects of the ultra-high pressure on structure and α -glucosidase inhibition of polysaccharide from <i>Astragalus</i> . <i>International Journal of Biological Macromolecules</i> , 2016, 87, 570-576.	7.6	34
29	Structural characterization and inhibition on α -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.	7.6	33
30	Using <i>Cordyceps militaris</i> extracellular polysaccharides to prevent Pb ²⁺ -induced liver and kidney toxicity by activating Nrf2 signals and modulating gut microbiota. <i>Food and Function</i> , 2020, 11, 9226-9239.	4.6	33
31	Synthesis and antitumor activity evaluation of chrysin derivatives. <i>European Journal of Medicinal Chemistry</i> , 2014, 75, 297-300.	5.6	32
32	Structure and hypoglycemic activity of a novel exopolysaccharide of <i>Cordyceps militaris</i> . <i>International Journal of Biological Macromolecules</i> , 2021, 166, 496-508.	7.6	31
33	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.	7.6	31
34	Comparative evaluation of polysaccharides isolated from <i>Astragalus</i> , oyster mushroom, and yacon as inhibitors of α -glucosidase. <i>Chinese Journal of Natural Medicines</i> , 2014, 12, 290-293.	1.3	30
35	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.	7.6	30
36	Carboxymethylation and acetylation of the polysaccharide from <i>Cordyceps militaris</i> and their α -glucosidase inhibitory activities. <i>Natural Product Research</i> , 2020, 34, 369-377.	1.8	30

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37	A novel polysaccharide from <i>Pleurotus citrinopileatus</i> mycelia: Structural characterization, hypoglycemic activity and mechanism. <i>Food Bioscience</i> , 2020, 37, 100735.	4.5	29
38	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.	3.7	29
39	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.	4.6	28
40	Structural characterisation and ACE-inhibitory activities of polysaccharide from <i>Gastrodia elata</i> Blume. <i>Natural Product Research</i> , 2019, 33, 1721-1726.	1.8	27
41	Structure analysis and anti-fatigue activity of a polysaccharide from <i>Lepidium meyenii</i> Walp. <i>Natural Product Research</i> , 2019, 33, 2480-2489.	1.8	25
42	Hypoglycemic effect of glycyrrhizic acid, a natural non-carbohydrate sweetener, on streptozotocin-induced diabetic mice. <i>Food and Function</i> , 2020, 11, 4160-4170.	4.6	25
43	Immunomodulatory effect of polysaccharides from submerged cultured <i>Cordyceps gunnii</i> . <i>Pharmaceutical Biology</i> , 2012, 50, 1103-1110.	3.0	24
44	Selenium modification of β -lactoglobulin (β -Lg) and its biological activity. <i>Food Chemistry</i> , 2016, 204, 246-251.	8.2	22
45	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	17
46	Structural characterization and protective effect on PC12 cells against H ₂ O 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.	7.6	17
47	Chemical constituents with antioxidant activity from the pericarps of <i>Juglans sigillata</i> . <i>Chemistry of Natural Compounds</i> , 2011, 47, 442-445.	0.8	16
48	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.	2.2	14
49	Efficient synthesis and activity of beneficial intestinal flora of two lactulose-derived oligosaccharides. <i>European Journal of Medicinal Chemistry</i> , 2016, 114, 8-13.	5.6	14
50	Structural analysis and immunostimulatory activity of glycopeptides from <i>Paecilomyces sinensis</i> . <i>Food and Function</i> , 2016, 7, 1593-1600.	4.6	14
51	¹ 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.	1.8	14
52	Effects of Na ₂ SeO ₃ on growth, metabolism, antioxidase and enzymes involved in polysaccharide synthesis of <i>Cordyceps militaris</i> . <i>Process Biochemistry</i> , 2020, 97, 64-71.	3.8	14
53	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.	3.7	14
54	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.	2.9	13

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55	Characterization and lymphocyte proliferation activity of an oligosaccharide degraded from <i>Astragalus polysaccharide</i> . <i>MedChemComm</i> , 2017, 8, 1521-1530.	3.4	13
56	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.	3.7	13
57	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.	7.6	13
58	Apigenin derivatives from <i>Paulownia tomentosa</i> Steud. var. <i>tomentosa</i> stem barks. <i>Holzforschung</i> , 2009, 63, 440-442.	2.0	12
59	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.	3.3	12
60	Structural characterization and prebiotic potential of an acidic polysaccharide from <i>Imperial Chrysanthemum</i> . <i>Natural Product Research</i> , 2022, 36, 586-594.	1.8	12
61	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.	5.3	12
62	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.	2.7	11
63	Structural analysis and antioxidant activity of the glycoside from <i>Imperial Chrysanthemum</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 1581-1590.	2.3	11
64	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.	6.4	10
65	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.	1.4	10
66	Structural characterization and inhibition on α-glucosidase of a novel oligosaccharide from barley malt. <i>Journal of Cereal Science</i> , 2018, 82, 82-93.	3.7	10
67	Structural properties and antioxidant activities of polysaccharide from fruit bodies of <i>Pholiota nameko</i> . <i>Natural Product Research</i> , 2019, 33, 1563-1569.	1.8	9
68	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.	3.1	9
69	Chemical structure and mechanism of polysaccharide on Pb ²⁺ tolerance of <i>Cordyceps militaris</i> after Pb ²⁺ domestication. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 958-969.	7.6	8
70	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.	1.8	8
71	Structural characterization of a polysaccharide from <i>Abelmoschus esculentus</i> L. Moench (okra) and its hypoglycemic effect and mechanism on type 2 diabetes mellitus. <i>Food and Function</i> , 2022, 13, 11973-11985.	4.6	8
72	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.	6.4	7

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73	The correlation of TNF alpha levels with the lipid profile of dengue patients. <i>Journal of Medical Virology</i> , 2018, 90, 1160-1163.	4.9	7
74	Tolerance mechanism of <i>Trichoderma asperellum</i> to Pb ²⁺ : response changes of related active ingredients under Pb ²⁺ stress. <i>RSC Advances</i> , 2020, 10, 5202-5211.	3.7	7
75	Comparison of structural and antioxidant activity of polysaccharide extracted from truffles. <i>Journal of Food Science</i> , 2022, 87, 2999-3012.	3.2	7
76	Preparation and activity evaluation of chrysin-β-D-galactopyranoside. <i>Archives of Pharmacal Research</i> , 2016, 39, 1433-1440.	6.2	6
77	Chromatographic analysis and preparation of l-arabinose from corncob by acid hydrolysis. <i>Industrial Crops and Products</i> , 2017, 95, 163-169.	5.3	6
78	Taxonomy characterization and plumbum bioremediation of novel fungi. <i>Journal of Basic Microbiology</i> , 2018, 58, 368-376.	3.5	5
79	Chemical analysis of a polysaccharide from <i>Cristaria plicata</i> (Leach). <i>International Journal of Food Sciences and Nutrition</i> , 2012, 63, 506-511.	2.7	4
80	Enzymatic characterization and validation of gene expression of phosphoglucomutase from <i>Cordyceps militaris</i> . <i>Biotechnology Letters</i> , 2021, 43, 177-192.	2.2	4
81	Synthesis and inhibition of β-glucosidase of methyl glycyrrhetinate glycosides. <i>Natural Product Research</i> , 2021, 35, 1874-1880.	1.8	3
82	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, .	1.9	3
83	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.	3.8	2
84	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.	3.7	2
85	Isolation and structural characterization of exopolysaccharide from the <i>Cordyceps cicadae</i> and the immunomodulatory activity on RAW264.7 cells. <i>Biotechnology and Applied Biochemistry</i> , 2023, 70, 1925-1940.	3.1	2
86	Synthesis and Antitumor Activity of a New Ergosterol Derivative. <i>Chemistry of Natural Compounds</i> , 2016, 52, 252-255.	0.8	1
87	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.	1.9	1
88	Rheological properties of polysaccharides from <i>Pholiota nameko</i> with different temperature extraction: Concentration, pH, temperature, and saltion. <i>Journal of Food Science</i> , 0, , .	3.2	1
89	<i>Trichoderma asperellum</i> as a novel source to prepare chitooligosaccharides by enzymatic hydrolysis and its antimicrobial activity. <i>Biotechnology and Applied Biochemistry</i> , 2023, 70, 1302-1309.	3.1	1
90	Tremella fuciformis Polysaccharide Induces Apoptosis of B16 Melanoma Cells via Promoting the M1 Polarization of Macrophages. <i>Molecules</i> , 2023, 28, 4018.	3.8	1

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91	Structure analysis and Pb ²⁺ -resistant activity of novel oligosaccharide from <i>Trichoderma asperellum</i> . <i>Journal of Molecular Structure</i> , 2022, 1261, 132893.	3.7	0
92	Effect of calcium on rheological properties of <i>Abelmoschus esculentus</i> (okra) pod polysaccharide and its application in <i>Annona squamosa</i> . <i>Food Science and Technology</i> , 0, 43, .	1.7	0
93	<i>Hovenia dulcis</i> Fruit Peduncle Polysaccharides Reduce Intestinal Dysbiosis and Hepatic Fatty Acid Metabolism Disorders in Alcohol-Exposed Mice. <i>Foods</i> , 2024, 13, 1145.	4.3	0