Zhen-Yuan Zhu

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Structural properties of polysaccharides from cultivated fruit bodies and mycelium of Cordyceps militaris. Carbohydrate Polymers, 2016, 142, 63-72. | 10.2 | 137 |
| 2 | Effects of extraction methods on the yield, chemical structure and anti-tumor activity of polysaccharides from Cordyceps gunnii mycelia. Carbohydrate Polymers, 2016, 140, 461-471. | 10.2 | 127 |
| 3 | Structural analysis and anti-tumor activity comparison of polysaccharides from Astragalus. Carbohydrate Polymers, 2011, 85, 895-902. | 10.2 | 107 |
| 4 | Structural characterization and inhibition on α-glucosidase activity of acidic polysaccharide from Annona squamosa. Carbohydrate Polymers, 2017, 174, 1-12. | 10.2 | 106 |
| 5 | Synthesis, characterization and antioxidant activity of selenium polysaccharide from Cordyceps militaris. International Journal of Biological Macromolecules, 2016, 93, 1090-1099. | 7.5 | 83 |
| 6 | The preparation of three selenium-containing Cordyceps militaris polysaccharides: Characterization and anti-tumor activities. International Journal of Biological Macromolecules, 2017, 99, 196-204. | 7.5 | 79 |
| 7 | The chemical structure and anti-aging bioactivity of an acid polysaccharide obtained from <i>rose</i> buds. Food and Function, 2018, 9, 2300-2312. | 4.6 | 72 |
| 8 | Structural characterization and inhibition on α- d -glucosidase activity of non-starch polysaccharides from Fagopyrum tartaricum. Carbohydrate Polymers, 2016, 153, 679-685. | 10.2 | 67 |
| 9 | Effect of ultrasonic treatment on structure and antitumor activity of mycelial polysaccharides from Cordyceps gunnii. Carbohydrate Polymers, 2014, 114, 12-20. | 10.2 | 59 |
| 10 | 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. | 6.0 | 57 |
| 11 | Structure and anti-tumor activity of a high-molecular-weight polysaccharide from cultured mycelium of Cordyceps gunnii. Carbohydrate Polymers, 2012, 88, 1072-1076. | 10.2 | 56 |
| 12 | Structural characterization and antitumor activity of a novel Se-polysaccharide from selenium-enriched <i>Cordyceps gunnii</i> . Food and Function, 2018, 9, 2744-2754. | 4.6 | 53 |
| 13 | Chemical structure and inhibition on α-glucosidase of polysaccharide with alkaline-extracted from glycyrrhiza inflata residue. International Journal of Biological Macromolecules, 2020, 147, 1125-1135. | 7.5 | 49 |
| 14 | Chemical structure and inhibition on α-glucosidase of the polysaccharides from Cordyceps militaris with different developmental stages. International Journal of Biological Macromolecules, 2020, 148, 722-736. | 7.5 | 45 |
| 15 | Sulfated modification of the polysaccharide from Cordyceps_gunnii mycelia and its biological activities. Carbohydrate Polymers, 2013, 92, 872-876. | 10.2 | 43 |
| 16 | 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. | 7.5 | 43 |
| 17 | Extraction, purification, structural characterization, and antioxidant activity of polysaccharides from Wheat Bran. Journal of Molecular Structure, 2021, 1233, 130096. | 3.6 | 43 |
| 18 | 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. | 7.5 | 41 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Chemical structure and effects of antioxidation and against α-glucosidase of natural polysaccharide from Glycyrrhiza inflata Batalin. International Journal of Biological Macromolecules, 2020, 155, 560-571. | 7.5 | 41 |
| 20 | Structure analysis and antioxidant activity of polysaccharide-iron (III) from Cordyceps militaris mycelia. International Journal of Biological Macromolecules, 2021, 178, 170-179. | 7.5 | 41 |
| 21 | 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, 3909-3921. | 3.6 | 39 |
| 22 | Mammalian elongation factor 4 regulates mitochondrial translation essential for spermatogenesis. Nature Structural and Molecular Biology, 2016, 23, 441-449. | 8.2 | 38 |
| 23 | Chemical structure and antioxidant activity of a polysaccharide from Siraitia grosvenorii. International Journal of Biological Macromolecules, 2020, 165, 1900-1910. | 7.5 | 36 |
| 24 | Synthesis and antitumor activity evaluation of chrysin derivatives. European Journal of Medicinal Chemistry, 2014, 75, 297-300. | 5.5 | 32 |
| 25 | Preparation and inhibition on α- d -glucosidase of low molecular weight polysaccharide from Cordyceps militaris. International Journal of Biological Macromolecules, 2016, 93, 27-33. | 7.5 | 32 |
| 26 | Structural characterization and inhibition on α-glucosidase of the polysaccharides from fruiting bodies and mycelia of Pleurotus eryngii. International Journal of Biological Macromolecules, 2020, 156, 1512-1519. | 7.5 | 32 |
| 27 | Comparative evaluation of polysaccharides isolated from Astragalus, oyster mushroom, and yacon as inhibitors of α-glucosidase. Chinese Journal of Natural Medicines, 2014, 12, 290-293. | 1.3 | 30 |
| 28 | Effects of the ultra-high pressure on structure and α-glucosidase inhibition of polysaccharide from Astragalus. International Journal of Biological Macromolecules, 2016, 87, 570-576. | 7.5 | 30 |
| 29 | Structural characterization and anti-tumor activity of polysaccharide produced by Hirsutella sinensis. International Journal of Biological Macromolecules, 2016, 82, 959-966. | 7.5 | 30 |
| 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. Food and Function, 2020, 11, 9226-9239. | 4.6 | 29 |
| 31 | Structure and hypoglycemic activity of a novel exopolysaccharide of Cordyceps militaris. International Journal of Biological Macromolecules, 2021, 166, 496-508. | 7.5 | 29 |
| 32 | Structural characterization and inhibitions on α-glucosidase and α-amylase of alkali-extracted water-soluble polysaccharide from Annona squamosa residue. International Journal of Biological Macromolecules, 2021, 166, 730-740. | 7.5 | 28 |
| 33 | Immunostimulatory activity of glycopeptides from Paecilomyces sinensis under normal and cyclophosphamide induced immunosuppressive conditions in mice models. Food and Function, 2016, 7, 3566-3576. | 4.6 | 27 |
| 34 | Carboxymethylation and acetylation of the polysaccharide from <i>Cordyceps militaris</i> and their α-glucosidase inhibitory activities. Natural Product Research, 2020, 34, 369-377. | 1.8 | 27 |
| 35 | A novel acid polysaccharide from fermented broth of Pleurotus citrinopileatus: Hypoglycemic activity inÂvitro and chemical structure. Journal of Molecular Structure, 2020, 1220, 128717. | 3.6 | 27 |
| 36 | A novel polysaccharide from Pleurotus citrinopileatus mycelia: Structural characterization, hypoglycemic activity and mechanism. Food Bioscience, 2020, 37, 100735. | 4.4 | 26 |

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| 37 | Structural characterisation and ACE-inhibitory activities of polysaccharide from <i>Gastrodia elata</i> Blume. Natural Product Research, 2019, 33, 1721-1726. | 1.8 | 25 |
| 38 | Immunomodulatory effect of polysaccharides from submerged cultured <i>Cordyceps gunnii</i> . Pharmaceutical Biology, 2012, 50, 1103-1110. | 2.9 | 23 |
| 39 | Hypoglycemic effect of glycyrrhizic acid, a natural non-carbohydrate sweetener, on streptozotocin-induced diabetic mice. Food and Function, 2020, 11, 4160-4170. | 4.6 | 23 |
| 40 | Selenium modification of β-lactoglobulin (β-Lg) and its biological activity. Food Chemistry, 2016, 204, 246-251. | 8.2 | 22 |
| 41 | Effect of steam explosion pretreatment on the structure and bioactivity of Ampelopsis grossedentata polysaccharides. International Journal of Biological Macromolecules, 2021, 185, 194-205. | 7.5 | 21 |
| 42 | Structure analysis and anti-fatigue activity of a polysaccharide from <i>Lepidium meyenii</i> Walp. Natural Product Research, 2019, 33, 2480-2489. | 1.8 | 20 |
| 43 | Chemical constituents with antioxidant activity from the pericarps of Juglans sigillata. Chemistry of Natural Compounds, 2011, 47, 442-445. | 0.8 | 16 |
| 44 | Preliminary characterization and immunostimulatory activity of a novel functional polysaccharide from Astragalus residue fermented by Paecilomyces sinensis. RSC Advances, 2017, 7, 23875-23881. | 3.6 | 16 |
| 45 | Effects of cultural medium on the formation and antitumor activity of polysaccharides by Cordyceps gunnii. Journal of Bioscience and Bioengineering, 2016, 122, 494-498. | 2.2 | 14 |
| 46 | Efficient synthesis and activity of beneficial intestinal flora of two lactulose-derived oligosaccharides. European Journal of Medicinal Chemistry, 2016, 114, 8-13. | 5.5 | 14 |
| 47 | Structural analysis and immunostimulatory activity of glycopeptides from Paecilomyces sinensis. Food and Function, 2016, 7, 1593-1600. | 4.6 | 14 |
| 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. | 2.9 | 13 |
| 49 | The effect of fermentation conditions on the structure and anti-tumor activity of polysaccharides from <i>Cordyceps gunnii</i> . RSC Advances, 2019, 9, 18205-18216. | 3.6 | 13 |
| 50 | Function and mechanism of polysaccharide on enhancing tolerance of Trichoderma asperellum under Pb2+ stress. International Journal of Biological Macromolecules, 2020, 151, 509-518. | 7.5 | 13 |
| 51 | Structural characterization and protective effect on PC12 cells against H2O2-induced oxidative damage of a polysaccharide extracted from mycelia of Lactarius deliciosus Gray. International Journal of Biological Macromolecules, 2022, 209, 1815-1825. | 7.5 | 13 |
| 52 | Apigenin derivatives from <i>Paulownia tomentosa</i> Steud. var. <i>tomentosa</i> stem barks. Holzforschung, 2009, 63, 440-442. | 1.9 | 12 |
| 53 | Preparation, characterization and bioactivity of xylobiose and xylotriose from corncob xylan by xylanase. European Food Research and Technology, 2015, 241, 27-35. | 3.3 | 12 |
| 54 | Characterization and lymphocyte proliferation activity of an oligosaccharide degraded from Astragalus polysaccharide. MedChemComm, 2017, 8, 1521-1530. | 3.4 | 12 |

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| 55 | ¹ H NMR-based metabonomics of the hypoglycemic effect of polysaccharides from <i>Cordyceps militaris</i> on streptozotocin-induced diabetes in mice. Natural Product Research, 2020, 34, 1366-1372. | 1.8 | 12 |
| 56 | Chemical structure and inhibition on α-glucosidase of a novel polysaccharide from Hypsizygus marmoreus. Journal of Molecular Structure, 2020, 1211, 128110. | 3.6 | 12 |
| 57 | Structural analysis and antioxidant activity of the glycoside from Imperial Chrysanthemum. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 1581-1590. | 2.2 | 11 |
| 58 | Effects of Na2SeO3 on growth, metabolism, antioxidase and enzymes involved in polysaccharide synthesis of Cordyceps militaris. Process Biochemistry, 2020, 97, 64-71. | 3.7 | 11 |
| 59 | Synthesis of ProtectedN-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 |
| 60 | The chromatographic analysis of oligosaccharides and preparation of 1-kestose and nystose in yacon. International Journal of Food Sciences and Nutrition, 2012, 63, 338-342. | 2.8 | 10 |
| 61 | Highly efficient synthesis and antitumor activity of monosaccharide saponins mimicking components of Chinese folk medicine <i>Cordyceps sinensis</i> . Journal of Asian Natural Products Research, 2012, 14, 429-435. | 1.4 | 10 |
| 62 | Structural characterization and inhibition on α-glucosidase of a novel oligosaccharide from barley malt. Journal of Cereal Science, 2018, 82, 82-93. | 3.7 | 10 |
| 63 | Structural characterization and prebiotic potential of an acidic polysaccharide from <i>Imperial Chrysanthemum</i> . Natural Product Research, 2022, 36, 586-594. | 1.8 | 9 |
| 64 | Preparation, structure and α-glucosidase inhibitory of oligosaccharides by enzymatic hydrolysis from Annona squamosa polysaccharide. Industrial Crops and Products, 2022, 177, 114468. | 5.2 | 9 |
| 65 | Structural properties and antioxidant activities of polysaccharide from fruit bodies of Pholiota nameko. Natural Product Research, 2019, 33, 1563-1569. | 1.8 | 8 |
| 66 | Structure, antioxidant property and protection on PC12 of a polysaccharide isolated and screened from <i>Abelmoschus esculentus</i> L.Moench (okra). Natural Product Research, 2022, 36, 1441-1447. | 1.8 | 8 |
| 67 | Preparation and antibacterial effect of chitooligosaccharides monomers with different polymerization degrees from crab shell chitosan by enzymatic hydrolysis. Biotechnology and Applied Biochemistry, 2023, 70, 164-174. | 3.1 | 8 |
| 68 | Regio―and Stereoâ€selective Synthesis of Peracetylated Carbohydrate Esters of Aromatic Fatty Acid Using <i>p</i> â€Toluenesulfonic Acid as Catalyst. Chinese Journal of Chemistry, 2010, 28, 2245-2248. | 4.9 | 7 |
| 69 | Chemical structure and mechanism of polysaccharide on Pb2+ tolerance of Cordyceps militaris after Pb2+ domestication. International Journal of Biological Macromolecules, 2020, 165, 958-969. | 7.5 | 7 |
| 70 | Chromatographic analysis and preparation of l-arabinose from corncob by acid hydrolysis. Industrial Crops and Products, 2017, 95, 163-169. | 5.2 | 6 |
| 71 | Tolerance mechanism of <i>Trichoderma asperellum</i> to Pb ²⁺ : response changes of related active ingredients under Pb ²⁺ stress. RSC Advances, 2020, 10, 5202-5211. | 3.6 | 6 |
| 72 | Comparison of structural and antioxidant activity of polysaccharide extracted from truffles. Journal of Food Science, 2022, 87, 2999-3012. | 3.1 | 6 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Taxonomy characterization and plumbum bioremediation of novel fungi. Journal of Basic Microbiology, 2018, 58, 368-376. | 3.3 | 5 |
| 74 | Chemical analysis of a polysaccharide from <i>Cristaria plicata</i> (Leach). International Journal of Food Sciences and Nutrition, 2012, 63, 506-511. | 2.8 | 4 |
| 75 | Preparation and activity evaluation of chrysin-β-d-galactopyranoside. Archives of Pharmacal Research, 2016, 39, 1433-1440. | 6.3 | 4 |
| 76 | Enzymatic characterization and validation of gene expression of phosphoglucomutase from Cordyceps militaris. Biotechnology Letters, 2021, 43, 177-192. | 2.2 | 3 |
| 77 | Synthesis and inhibition of α-glucosidase of methyl glycyrrhetinate glycosides. Natural Product Research, 2021, 35, 1874-1880. | 1.8 | 3 |
| 78 | Effects of postharvest treatment with pullulan, calcium chloride, and chitosan on quality and sugar metabolism of <i>Annona squamosa</i> during storage. Journal of Food Processing and Preservation, 2022, 46, . | 2.0 | 3 |
| 79 | Comparison of response mechanism of ordinary Cordyceps militaris and domesticated Cordyceps militaris to Pb2+ stress. Process Biochemistry, 2021, 107, 112-120. | 3.7 | 2 |
| 80 | Synthesis and Antitumor Activity of a New Ergosterol Derivative. Chemistry of Natural Compounds, 2016, 52, 252-255. | 0.8 | 1 |
| 81 | Changes in nutrition and related enzymes of Annona squamosa during storage based on carbohydrate analysis. Journal of Food Processing and Preservation, 2019, 43, e13997. | 2.0 | 1 |
| 82 | Dihydromyricetin from Ampelopsis grossedentata and its derivatives: Structural characterization and anti-hepatocellular carcinoma activity. Journal of Molecular Structure, 2022, 1258, 132677. | 3.6 | 1 |
| 83 | Structure analysis and Pb2+-resistant activity of novel oligosaccharide from Trichoderma asperellum. Journal of Molecular Structure, 2022, 1261, 132893. | 3.6 | 0 |