

Zhen Qin

List of Publications by Year in descending order

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33
papers

737
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567144
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33
docs citations

33
times ranked

891
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an Engineered Ketoreductase with Simultaneously Improved Thermostability and Activity for Making a Bulky Atorvastatin Precursor. <i>ACS Catalysis</i> , 2019, 9, 147-153.	5.5	93
2	Expression and characterization of a novel cold-adapted chitosanase suitable for chitooligosaccharides controllable preparation. <i>Food Chemistry</i> , 2018, 253, 139-147.	4.2	69
3	Antioxidant properties of a vegetable "fruit beverage fermented with two <i>Lactobacillus plantarum</i> strains. <i>Food Science and Biotechnology</i> , 2018, 27, 1719-1726.	1.2	62
4	Biochemical properties of a novel chitosanase from <i>Bacillus amyloliquefaciens</i> and its use in membrane reactor. <i>LWT - Food Science and Technology</i> , 2018, 97, 9-16.	2.5	42
5	Insights into the nanofiltration separation mechanism of monosaccharides by molecular dynamics simulation. <i>Separation and Purification Technology</i> , 2018, 205, 48-57.	3.9	34
6	High level production of a <i>Bacillus amyloliquefaciens</i> chitosanase in <i>Pichia pastoris</i> suitable for chitooligosaccharides preparation. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 1034-1041.	3.6	34
7	The recognition mechanism of triple-helical β -1,3-glucan by a β -1,3-glucanase. <i>Chemical Communications</i> , 2017, 53, 9368-9371.	2.2	32
8	Structural insights into the substrate specificity of two esterases from the thermophilic <i>Rhizomucor miehei</i> . <i>Journal of Lipid Research</i> , 2015, 56, 1616-1624.	2.0	29
9	One-step immobilization-purification of enzymes by carbohydrate-binding module family 56 tag fusion. <i>Food Chemistry</i> , 2019, 299, 125037.	4.2	28
10	Efficient Immobilization of Bacterial GH Family 46 Chitosanase by Carbohydrate-Binding Module Fusion for the Controllable Preparation of Chitooligosaccharides. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 6847-6855.	2.4	28
11	Structural insights into the substrate specificity and transglycosylation activity of a fungal glycoside hydrolase family 5 β -mannosidase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2970-2982.	2.5	27
12	Directed evolution of a β -mannanase from <i>Rhizomucor miehei</i> to improve catalytic activity in acidic and thermophilic conditions. <i>Biotechnology for Biofuels</i> , 2017, 10, 143.	6.2	27
13	Textural characteristics of mixed gels improved by structural recombination and the formation of hydrogen bonds between curdlan and carrageenan. <i>Food Hydrocolloids</i> , 2022, 129, 107678.	5.6	23
14	Antifungal Mechanism of Volatile Organic Compounds Produced by <i>Bacillus subtilis</i> CF-3 on <i>Colletotrichum gloeosporioides</i> Assessed Using Omics Technology. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 5267-5278.	2.4	19
15	Modulating the function of a β -1,3-glucanosyltransferase to that of an endo- β -1,3-glucanase by structure-based protein engineering. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1765-1776.	1.7	17
16	Chitooligosaccharide plays essential roles in regulating proline metabolism and cold stress tolerance in rice seedlings. <i>Acta Physiologiae Plantarum</i> , 2019, 41, 1.	1.0	17
17	Catalytic Mechanism of a Novel Glycoside Hydrolase Family 16 α -Elongating β -Transglycosylase. <i>Journal of Biological Chemistry</i> , 2017, 292, 1666-1678.	1.6	16
18	Chitooligosaccharides enhance cold tolerance by repairing photodamaged PS II in rice. <i>Journal of Agricultural Science</i> , 2018, 156, 888-899.	0.6	15

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19	Structural insights into the catalytic mechanism of a novel glycoside hydrolase family 113 β -1,4-mannanase from <i>Amphibacillus xylanus</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 11746-11757.	1.6	15
20	Efficient inhibition of <i>Cronobacter</i> biofilms by chitooligosaccharides of specific molecular weight. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 87.	1.7	15
21	The first crystal structure of a glycoside hydrolase family 17 β -1,3-glucanotransferase displays a unique catalytic cleft. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1714-1724.	2.5	13
22	Structure-function analysis of <i>Gynuella sunshinyii</i> chitosanase uncovers the mechanism of substrate binding in GH family 46 members. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 2038-2048.	3.6	13
23	Structural and biochemical insights into the substrate-binding mechanism of a novel glycoside hydrolase family 134 β -mannanase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1376-1388.	1.1	12
24	A unique GCN5-related glucosamine N-acetyltransferase region exist in the fungal multi-domain glycoside hydrolase family 3 β -N-acetylglucosaminidase. <i>Scientific Reports</i> , 2015, 5, 18292.	1.6	10
25	Insights into the Composition and Antibacterial Activity of <i>Amomum tsao-ko</i> Essential Oils from Different Regions Based on GC-MS and GC-IMS. <i>Foods</i> , 2022, 11, 1402.	1.9	9
26	Characterization of Microbial Community in Daqu by PLFA Method. <i>Food Science and Technology Research</i> , 2014, 20, 147-154.	0.3	8
27	A Novel GH Family 20 β -N-acetylhexosaminidase With Both Chitosanase and Chitinase Activity From <i>Aspergillus oryzae</i> . <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 684086.	1.6	8
28	Crystal structure and characterization of a novel L-serine ammonia-lyase from <i>Rhizomucor miehei</i> . <i>Biochemical and Biophysical Research Communications</i> , 2015, 466, 431-437.	1.0	6
29	Physicochemical Characteristics of Edible Bird's Nest Proteins and Their Cooking Processing Properties. <i>International Journal of Food Engineering</i> , 2018, 14, .	0.7	5
30	Inhibitory effect of chitooligosaccharides on retinol metabolism and bioavailability in mice. <i>Journal of Food Biochemistry</i> , 2019, 43, e12831.	1.2	4
31	Structural insights into the substrate recognition and catalytic mechanism of a fungal glycoside hydrolase family 81 β -1,3-glucanase. <i>Enzyme and Microbial Technology</i> , 2022, 153, 109948.	1.6	4
32	Detection and Separation of Chito/Chitin Oligosaccharides. , 2019, , 83-105.		3
33	Preparation of Chitooligosaccharides and Its Monomer. , 2019, , 29-54.		0