

Yuxiang Bai

List of Publications by Year in descending order

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45
papers

894
citations

516561

16
h-index

501076

28
g-index

45
all docs

45
docs citations

45
times ranked

734
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of frying on the pasting and rheological properties of normal maize starch. <i>Food Hydrocolloids</i> , 2018, 77, 85-95.	5.6	101
2	Structure–function relationships of family GH70 glucansucrase and 4,6- α -glucanotransferase enzymes, and their evolutionary relationships with family GH13 enzymes. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 2681-2706.	2.4	64
3	Food-derived non-phenolic α -amylase and α -glucosidase inhibitors for controlling starch digestion rate and guiding diabetes-friendly recipes. <i>LWT - Food Science and Technology</i> , 2022, 153, 112455.	2.5	62
4	Biosynthesis of levan from sucrose using a thermostable levansucrase from <i>Lactobacillus reuteri</i> LTH5448. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 29-37.	3.6	55
5	Biochemical Characterization of the <i>Lactobacillus reuteri</i> Glycoside Hydrolase Family 70 GTFB Type of 4,6- α -Glucanotransferase Enzymes That Synthesize Soluble Dietary Starch Fibers. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7223-7232.	1.4	54
6	Physicochemical properties of a high molecular weight levan from <i>Brenneria</i> sp. EniD312. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 810-818.	3.6	47
7	Crystal Structure of 4,6- α -Glucanotransferase Supports Diet-Driven Evolution of GH70 Enzymes from α -Amylases in Oral Bacteria. <i>Structure</i> , 2017, 25, 231-242.	1.6	45
8	The binding mechanism between cyclodextrins and pullulanase: A molecular docking, isothermal titration calorimetry, circular dichroism and fluorescence study. <i>Food Chemistry</i> , 2020, 321, 126750.	4.2	34
9	Maltogenic α -amylase hydrolysis of wheat starch granules: Mechanism and relation to starch retrogradation. <i>Food Hydrocolloids</i> , 2022, 124, 107256.	5.6	30
10	<i>Lactobacillus reuteri</i> Strains Convert Starch and Maltodextrins into Homoexopolysaccharides Using an Extracellular and Cell-Associated 4,6- α -Glucanotransferase. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 2941-2952.	2.4	27
11	Biosynthesis of inulin from sucrose using inulosucrase from <i>Lactobacillus gasseri</i> DSM 20604. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 1209-1218.	3.6	27
12	Identification of an α -(1,4)-Glucan-Synthesizing Amylosucrase from <i>Cellulomonas carbonis</i> T26. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 2110-2119.	2.4	25
13	Preparation of malto-oligosaccharides with specific degree of polymerization by a novel cyclodextrinase from <i>Palaeococcus pacificus</i> . <i>Carbohydrate Polymers</i> , 2019, 210, 64-72.	5.1	24
14	Structural and property characterization of corn starch modified by cyclodextrin glycosyltransferase and specific cyclodextrinase. <i>Carbohydrate Polymers</i> , 2020, 237, 116137.	5.1	24
15	Cycloamylose production from amylo maize by isoamylase and <i>Thermus aquaticus</i> 4- α -glucanotransferase. <i>Carbohydrate Polymers</i> , 2014, 102, 66-73.	5.1	23
16	Biochemical characterization of a highly thermostable amylosucrase from <i>Truepera radiovictrix</i> DSM 17093. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 744-752.	3.6	20
17	High-efficiency production of β -cyclodextrin using β -cyclodextrin as the donor raw material by cyclodextrin opening reactions using recombinant cyclodextrin glycosyltransferase. <i>Carbohydrate Polymers</i> , 2018, 182, 75-80.	5.1	19
18	Synergetic modification of waxy maize starch by dual-enzyme to lower the in vitro digestibility through modulating molecular structure and malto-oligosaccharide content. <i>International Journal of Biological Macromolecules</i> , 2021, 180, 187-193.	3.6	17

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19	Characterization of the 4,6- α -glucanotransferase GTFB enzyme of <i>Lactobacillus reuteri</i> 121 isolated from inclusion bodies. <i>BMC Biotechnology</i> , 2015, 15, 49.	1.7	15
20	Acrylated Composite Hydrogel Preparation and Adsorption Kinetics of Methylene Blue. <i>Molecules</i> , 2017, 22, 1824.	1.7	13
21	Thermophilic 4- α -Glucanotransferase from <i>Thermoproteus Uzoniensis</i> Retards the Long-Term Retrogradation but Maintains the Short-Term Gelation Strength of Tapioca Starch. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 5658-5667.	2.4	13
22	Comparison of encapsulation properties of major garlic oil components by hydroxypropyl β -cyclodextrin. <i>European Food Research and Technology</i> , 2010, 231, 519-524.	1.6	12
23	Deciphering external chain length and cyclodextrin production with starch catalyzed by cyclodextrin glycosyltransferase. <i>Carbohydrate Polymers</i> , 2022, 284, 119156.	5.1	11
24	Structural basis for the roles of starch and sucrose in homo-exopolysaccharide formation by <i>Lactobacillus reuteri</i> 35-5. <i>Carbohydrate Polymers</i> , 2016, 151, 29-39.	5.1	10
25	Distinct effects of different α -amylases on cross-linked tapioca starch and gel-improving mechanism. <i>Food Hydrocolloids</i> , 2022, 128, 107580.	5.6	10
26	Functional characterization of tryptophan437 at subsite +2 in pullulanase from <i>Bacillus subtilis</i> str. 168. <i>International Journal of Biological Macromolecules</i> , 2019, 133, 920-928.	3.6	9
27	HPTLC Screening of Folic Acid in Food: In Situ Derivatization with Ozone-Induced Fluorescence. <i>Food Analytical Methods</i> , 2019, 12, 431-439.	1.3	9
28	Phenylalanine476 mutation of pullulanase from <i>Bacillus subtilis</i> str. 168 improves the starch substrate utilization by weakening the product β -cyclodextrin inhibition. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 490-497.	3.6	9
29	Structure, function and enzymatic synthesis of glucosaccharides assembled mainly by α linkages – A review. <i>Carbohydrate Polymers</i> , 2022, 275, 118705.	5.1	9
30	Improved production of γ -cyclodextrin from high-concentrated starch using enzyme pretreatment under swelling condition. <i>Carbohydrate Polymers</i> , 2022, 284, 119124.	5.1	9
31	Development of pullulanase mutants to enhance starch substrate utilization for efficient production of β -CD. <i>International Journal of Biological Macromolecules</i> , 2021, 168, 640-648.	3.6	8
32	A Cyclodextrin-Based Controlled Release System in the Simulation of In Vitro Small Intestine. <i>Molecules</i> , 2020, 25, 1212.	1.7	7
33	Enzymatic synthesis, structure of isomalto/malto-polysaccharides from linear dextrans prepared by retrogradation. <i>Carbohydrate Polymers</i> , 2022, 288, 119350.	5.1	7
34	A Novel Cyclodextrin-Functionalized Hybrid Silicon Wastewater Nano-Adsorbent Material and Its Adsorption Properties. <i>Molecules</i> , 2018, 23, 1485.	1.7	6
35	Thermal and rheological properties of the supersaturated sucrose solution in the presence of different molecular weight fractions and concentrations of dextran. <i>European Food Research and Technology</i> , 2012, 234, 639-648.	1.6	5
36	Efficient Synthesis of Glucosyl- β -Cyclodextrin from Maltodextrins by Combined Action of Cyclodextrin Glycosyltransferase and Amyloglucosidase. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 6023-6029.	2.4	5

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37	Application of cyclodextrinase in non-complexant production of β -cyclodextrin. <i>Biotechnology Progress</i> , 2020, 36, e2930.	1.3	4
38	Controlling the Fine Structure of Glycogen-like Glucan by Rational Enzymatic Synthesis. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 14951-14960.	2.4	4
39	Enhancing gel strength of <i>Thermoproteus uzoniensis</i> 4- α -glucanotransferase modified starch by amylosucrase treatment. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 1-8.	3.6	4
40	Effect of Starch Primers on the Fine Structure of Enzymatically Synthesized Glycogen-like Glucan. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 6202-6212.	2.4	4
41	Preparation and Identification of 6 ² - α -Maltotriosyl-Maltotriose Using a Commercial Pullulanase. <i>International Journal of Food Properties</i> , 2015, 18, 186-193.	1.3	3
42	Synthesis, separation, and purification of glucosyl- β -cyclodextrin by one-pot method. <i>Journal of Food Biochemistry</i> , 2019, 43, e12890.	1.2	3
43	Mutations in Amino Acid Residues of <i>Limosilactobacillus reuteri</i> 121 GtFB 4,6- α -Glucanotransferase that Affect Reaction and Product Specificity. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 1952-1961.	2.4	3
44	A novel amylolytic enzyme from <i>Palaeococcus ferrophilus</i> with malto-oligosaccharide forming ability belonging to subfamily GH13_20. <i>Food Bioscience</i> , 2022, 45, 101498.	2.0	2
45	Partial hydrolysis of waxy rice starch by maltogenic α -amylase to regulate its structures, rheological properties and digestibility. <i>International Journal of Food Science and Technology</i> , 2023, 58, 4881-4890.	1.3	2