Caiming Li

List of Publications by Year in descending order

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304743 315739 1,851 81 22 38 citations h-index g-index papers 81 81 81 1609 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Electrospun starch nanofibers: Recent advances, challenges, and strategies for potential pharmaceutical applications. Journal of Controlled Release, 2017, 252, 95-107.	9.9	168
2	Retrogradation behavior of corn starch treated with 1,4-α-glucan branching enzyme. Food Chemistry, 2016, 203, 308-313.	8.2	108
3	Characterisation of physicochemical and functional properties of soluble dietary fibre from potato pulp obtained by enzyme-assisted extraction. International Journal of Biological Macromolecules, 2017, 101, 1004-1011.	7.5	90
4	Maltooligosaccharide-forming amylase: Characteristics, preparation, and application. Biotechnology Advances, 2017, 35, 619-632.	11.7	66
5	Preparation, characterization and properties of starch-based adhesive for wood-based panels. International Journal of Biological Macromolecules, 2019, 134, 247-254.	7.5	66
6	Chitosan coating of zein-carboxymethylated short-chain amylose nanocomposites improves oral bioavailability of insulin in vitro and in vivo. Journal of Controlled Release, 2019, 313, 1-13.	9.9	63
7	Effects of montmorillonite addition on the performance of starch-based wood adhesive. Carbohydrate Polymers, 2015, 115, 394-400.	10.2	51
8	Effect of modification with $1,4-\hat{l}\pm$ -glucan branching enzyme on the rheological properties of cassava starch. International Journal of Biological Macromolecules, 2017, 103, 630-639.	7.5	48
9	Effects of heat pretreatment of starch on graft copolymerization reaction and performance of resulting starch-based wood adhesive. International Journal of Biological Macromolecules, 2017, 96, 11-18.	7.5	47
10	Modification by \hat{l}_{\pm} -d-glucan branching enzyme lowers the in vitro digestibility of starch from different sources. International Journal of Biological Macromolecules, 2018, 107, 1758-1764.	7.5	44
11	Binary and Tertiary Complex Based on Short-Chain Glucan and Proanthocyanidins for Oral Insulin Delivery. Journal of Agricultural and Food Chemistry, 2017, 65, 8866-8874.	5.2	43
12	Digestion properties of corn starch modified by \hat{l}_{\pm} -D-glucan branching enzyme and cyclodextrin glycosyltransferase. Food Hydrocolloids, 2019, 89, 534-541.	10.7	42
13	Preparation and characterization of pullulanase debranched starches and their properties for drug controlled-release. RSC Advances, 2015, 5, 97066-97075.	3.6	39
14	Pasting and thermal properties of waxy corn starch modified by 1,4- \hat{l} ±-glucan branching enzyme. International Journal of Biological Macromolecules, 2017, 97, 679-687.	7.5	38
15	An investigation into the structure and digestibility of starch-oleic acid complexes prepared under various complexing temperatures. International Journal of Biological Macromolecules, 2019, 138, 966-974.	7.5	33
16	A two-stage modification method using $1,4-\hat{l}_{\pm}$ -glucan branching enzyme lowers the in vitro digestibility of corn starch. Food Chemistry, 2020, 305, 125441.	8.2	33
17	Stabilization of Pickering emulsions using starch nanocrystals treated with alkaline solution. International Journal of Biological Macromolecules, 2020, 155, 273-285.	7.5	33
18	Calcium Ion Contribution to Thermostability of Cyclodextrin Glycosyltransferase Is Closely Related to Calcium-Binding Site Calll. Journal of Agricultural and Food Chemistry, 2013, 61, 8836-8841.	5.2	32

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19	Preparation and stability mechanisms of double emulsions stabilized by gelatinized native starch. Carbohydrate Polymers, 2021, 262, 117926.	10.2	30
20	Effects of acid hydrolysis intensity on the properties of starch/xanthan mixtures. International Journal of Biological Macromolecules, 2018, 106, 320-329.	7.5	27
21	Calcium and sodium ions synergistically enhance the thermostability of a maltooligosaccharide-forming amylase from Bacillus stearothermophilus STB04. Food Chemistry, 2019, 283, 170-176.	8.2	27
22	Polyethylene glycols enhance the thermostability of \hat{l}^2 -cyclodextrin glycosyltransferase from Bacillus circulans. Food Chemistry, 2014, 164, 17-22.	8.2	26
23	An extensive review: How starch and gluten impact dough machinability and resultant bread qualities. Critical Reviews in Food Science and Nutrition, 2023, 63, 1930-1941.	10.3	25
24	Preparation of acetylated nanofibrillated cellulose from corn stalk microcrystalline cellulose and its reinforcing effect on starch films. International Journal of Biological Macromolecules, 2018, 111, 959-966.	7.5	23
25	Evolutionary Stability of Salt Bridges Hints Its Contribution to Stability of Proteins. Computational and Structural Biotechnology Journal, 2019, 17, 895-903.	4.1	23
26	An Innovative Short-Clustered Maltodextrin as Starch Substitute for Ameliorating Postprandial Glucose Homeostasis. Journal of Agricultural and Food Chemistry, 2021, 69, 354-367.	5.2	23
27	Met349 Mutations Enhance the Activity of 1,4-α-Glucan Branching Enzyme from <i>Geobacillus thermoglucosidans</i> STB02. Journal of Agricultural and Food Chemistry, 2017, 65, 5674-5680.	5.2	22
28	Additional salt bridges improve the thermostability of 1,4-α-glucan branching enzyme. Food Chemistry, 2020, 316, 126348.	8.2	22
29	Leu600 mutations decrease product inhibition of the \hat{l}^2 -cyclodextrin glycosyltransferase from Bacillus circulans STB01. International Journal of Biological Macromolecules, 2018, 115, 1194-1201.	7.5	21
30	Combinatorial effect of fermentation and drying on the relationship between the structure and expansion properties of tapioca starch and potato starch. International Journal of Biological Macromolecules, 2020, 145, 965-973.	7.5	21
31	Two 1,4-α-glucan branching enzymes successively rearrange glycosidic bonds: A novel synergistic approach for reducing starch digestibility. Carbohydrate Polymers, 2021, 262, 117968.	10.2	21
32	Thermostabilization of a thermophilic 1,4- \hat{l} ±-glucan branching enzyme through C-terminal truncation. International Journal of Biological Macromolecules, 2018, 107, 1510-1518.	7.5	20
33	Impact of celluloses and pectins restrictions on gluten development and water distribution in potato-wheat flour dough. International Journal of Biological Macromolecules, 2022, 206, 534-542.	7.5	20
34	Bacterial 1,4-α-glucan branching enzymes: characteristics, preparation and commercial applications. Critical Reviews in Biotechnology, 2020, 40, 380-396.	9.0	19
35	Expression and characterization of an extremely thermophilic $1,4-\hat{l}\pm$ -glucan branching enzyme from Rhodothermus obamensis STB05. Protein Expression and Purification, 2019, 164, 105478.	1.3	18
36	Characterization of physicochemical properties of cellulose from potato pulp and their effects on enzymatic hydrolysis by cellulase. International Journal of Biological Macromolecules, 2019, 131, 564-571.	7.5	18

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37	Structure-Based Engineering of a Maltooligosaccharide-Forming Amylase To Enhance Product Specificity. Journal of Agricultural and Food Chemistry, 2020, 68, 838-844.	5.2	18
38	Alanine 310 is important for the activity of 1,4-α-glucan branching enzyme from Geobacillus thermoglucosidans STB02. International Journal of Biological Macromolecules, 2017, 97, 156-163.	7. 5	17
39	Potassium and sodium ions enhance the activity and thermostability of $1,4-\hat{l}\pm$ -glucan branching enzyme from Geobacillus thermoglucosidasius in the presence of glycerol. International Journal of Biological Macromolecules, 2017, 102, 712-717.	7.5	16
40	Crystal structure of a maltooligosaccharide-forming amylase from Bacillus stearothermophilus STB04. International Journal of Biological Macromolecules, 2019, 138, 394-402.	7. 5	16
41	Flexible Loop in Carbohydrate-Binding Module 48 Allosterically Modulates Substrate Binding of the 1,4-α-Glucan Branching Enzyme. Journal of Agricultural and Food Chemistry, 2021, 69, 5755-5763.	5.2	16
42	Butyrylated starch protects mice from DSS-induced colitis: combined effects of butyrate release and prebiotic supply. Food and Function, 2021, 12, 11290-11302.	4.6	15
43	Effect of cassava starch structure on scalding of dough and baking expansion ability. Food Chemistry, 2021, 352, 129350.	8.2	15
44	Effects of different gelatinization degrees of starch in potato flour on the quality of steamed bread. International Journal of Biological Macromolecules, 2022, 209, 144-152.	7. 5	15
45	Nanosilica Sol Leads to Further Increase in Polyethylene Glycol (PEG) 1000-Enhanced Thermostability of β-Cyclodextrin Glycosyltransferase from <i>Bacillus circulans</i> . Journal of Agricultural and Food Chemistry, 2014, 62, 2919-2924.	5.2	14
46	Asp577 mutations enhance the catalytic efficiency of cyclodextrin glycosyltransferase from Bacillus circulans. International Journal of Biological Macromolecules, 2016, 83, 111-116.	7. 5	14
47	Mutations enhance \hat{I}^2 -cyclodextrin specificity of cyclodextrin glycosyltransferase from Bacillus circulans. Carbohydrate Polymers, 2014, 108, 112-117.	10.2	13
48	Non-classical secretion of 1,4-alpha-glucan branching enzymes without signal peptides in Escherichia coli. International Journal of Biological Macromolecules, 2019, 132, 759-765.	7.5	13
49	Novel Short-Clustered Maltodextrin as a Dietary Starch Substitute Attenuates Metabolic Dysregulation and Restructures Gut Microbiota in <i>db</i> /i>/db Mice. Journal of Agricultural and Food Chemistry, 2020, 68, 12400-12412.	5.2	13
50	Structure of maltotetraose-forming amylase from Pseudomonas saccharophila STB07 provides insights into its product specificity. International Journal of Biological Macromolecules, 2020, 154, 1303-1313.	7. 5	12
51	Carbohydrate-Binding Module and Linker Allow Cold Adaptation and Salt Tolerance of Maltopentaose-Forming Amylase From Marine Bacterium Saccharophagus degradans 2-40T. Frontiers in Microbiology, 2021, 12, 708480.	3.5	12
52	Starch phosphorylation and the in vivo regulation of starch metabolism and characteristics. International Journal of Biological Macromolecules, 2020, 159, 823-831.	7. 5	12
53	Mutations at calcium binding site III in cyclodextrin glycosyltransferase improve \hat{l}^2 -cyclodextrin specificity. International Journal of Biological Macromolecules, 2015, 76, 224-229.	7.5	11
54	Rational Design of Disulfide Bonds for Enhancing the Thermostability of the 1,4-α-Glucan Branching Enzyme from <i>Geobacillus thermoglucosidans</i> STB02. Journal of Agricultural and Food Chemistry, 2020, 68, 13791-13797.	5.2	11

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55	Influence of guar gum on the in vitro digestibility of tapioca starch. Starch/Staerke, 2016, 68, 339-347.	2.1	10
56	Enzyme assisted fermentation of potato pulp: An effective way to reduce water holding capacity and improve drying efficiency. Food Chemistry, 2018, 258, 118-123.	8.2	10
57	Importance of Trp139 in the product specificity of a maltooligosaccharide-forming amylase from Bacillus stearothermophilus STB04. Applied Microbiology and Biotechnology, 2019, 103, 9433-9442.	3.6	10
58	The desirable salt bridges in amylases: Distribution, configuration and location. Food Chemistry, 2021, 354, 129475.	8.2	10
59	Ultrasonic pretreatment improves the highâ€temperature liquefaction of corn starch at high concentrations. Starch/Staerke, 2017, 69, 1600002.	2.1	9
60	Variants at position 603 of the CGTase from Bacillus circulans STB01 for reducing product inhibition. International Journal of Biological Macromolecules, 2019, 136, 460-468.	7.5	9
61	Starch-Binding Domain Modulates the Specificity of Maltopentaose Production at Moderate Temperatures. Journal of Agricultural and Food Chemistry, 2022, 70, 9057-9065.	5.2	9
62	Effect of increased pressure on the coated layer profile of steamed rice. Food Chemistry, 2020, 310, 125971.	8.2	7
63	Combined effects of wheat gluten and carboxymethylcellulose on dough rheological behaviours and gluten network of potato–wheat flourâ€based bread. International Journal of Food Science and Technology, 2021, 56, 4149-4158.	2.7	7
64	Structure and Menthone Encapsulation of Corn Starch Modified by Octenyl Succinic Anhydride and Enzymatic Treatment. Journal of Food Quality, 2022, 2022, 1-10.	2.6	7
65	Insights into the thermostability and product specificity of a maltooligosaccharide-forming amylase from Bacillus stearothermophilus STB04. Biotechnology Letters, 2020, 42, 295-303.	2.2	6
66	New insights into the alleviating role of starch derivatives on dough quality deterioration caused by freeze. Food Chemistry, 2021, 362, 130240.	8.2	6
67	The amino acid on the top of the active groove allosterically modulates product specificity of the 1,4-α-glucan branching enzyme. Food Chemistry, 2022, 384, 132458.	8.2	6
68	A two-stage temperature control strategy enhances extracellular secretion of recombinant \hat{l} ±-cyclodextrin glucosyltransferase in Escherichia coli. AMB Express, 2017, 7, 165.	3.0	5
69	Moderate Vinyl Acetate Acetylation Improves the Pasting Properties of Oxidized Corn Starch. Starch/Staerke, 2021, 73, .	2.1	5
70	A review of controlled release from cyclodextrins: release methods, release systems and application. Critical Reviews in Food Science and Nutrition, 2023, 63, 4744-4756.	10.3	5
71	Maltose binding site 2 mutations affect product inhibition of Bacillus circulans STB01 cyclodextrin glycosyltransferase. International Journal of Biological Macromolecules, 2021, 175, 254-261.	7.5	4
72	Effects of acid-ethanol hydrolysis and debranch on acetylated starch and its potential used for curcumin carrier. Carbohydrate Polymers, 2022, 279, 119019.	10.2	4

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73	Importance of C-Terminal Extension in Thermophilic 1,4-α-Glucan Branching Enzyme from Geobacillus thermoglucosidans STB02. Applied Biochemistry and Biotechnology, 2020, 190, 1010-1022.	2.9	3
74	Study on rapid drying and spoilage prevention of potato pulp using solid-state fermentation with Aspergillus aculeatus. Bioresource Technology, 2020, 296, 122323.	9.6	3
75	KOH/thiourea aqueous solution: A potential solvent for studying the dissolution mechanism and chain conformation of corn starch. International Journal of Biological Macromolecules, 2022, 195, 86-92.	7.5	3
76	Beneficial Effects of Three Dietary Cyclodextrins on Preventing Fat Accumulation and Remodeling Gut Microbiota in Mice Fed a High-Fat Diet. Foods, 2022, 11, 1118.	4.3	3
77	Fusion of maltooligosaccharide-forming amylases from two origins for the improvement of maltopentaose synthesis. Food Research International, 2021, 150, 110735.	6.2	2
78	Themes, Trends, and Knowledge Structure in 30 Years of Starch Research in Food Science and Technology: a Visualization Review. Starch/Staerke, 0, , 2100274.	2.1	2
79	The Global Amylase Research Trend in Food Science Technology: A Data-Driven Analysis. Food Reviews International, 2023, 39, 2492-2506.	8.4	1
80	Substrate Selectivity of a Novel Amylo- \hat{l} ±-1,6-glucosidase from Thermococcus gammatolerans STB12. Foods, 2022, 11, 1442.	4.3	1
81	Enzymatic cyclodextrin synthesis-tributyrin inclusion complex: Properties, structural characterization and release behaviors in vitro. LWT - Food Science and Technology, 2022, 165, 113726.	5.2	1