

Ming Miao

List of Publications by Year in descending order

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118
papers

4,671
citations

81839

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119
all docs

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docs citations

119
times ranked

4343
citing authors

#	ARTICLE	IF	CITATIONS
1	Dietary polyphenols modulate starch digestion and glycaemic level: a review. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, 60, 541-555.	5.4	227
2	Effect of pullulanase debranching and recrystallization on structure and digestibility of waxy maize starch. <i>Carbohydrate Polymers</i> , 2009, 76, 214-221.	5.1	206
3	Slowly Digestible Starch—A Review. <i>Critical Reviews in Food Science and Nutrition</i> , 2015, 55, 1642-1657.	5.4	205
4	Structure and physicochemical properties of octenyl succinic esters of sugary maize soluble starch and waxy maize starch. <i>Food Chemistry</i> , 2014, 151, 154-160.	4.2	165
5	Purification and characterisation of a new antioxidant peptide from chickpea (<i>Cicer arietium</i> L.) protein hydrolysates. <i>Food Chemistry</i> , 2011, 128, 28-33.	4.2	145
6	α-D-Glucopyranose: Properties, Production, and Applications: An Overview. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2016, 15, 773-785.	5.9	129
7	Characterization and antioxidant activity of Ginkgo biloba exocarp polysaccharides. <i>Carbohydrate Polymers</i> , 2012, 87, 40-45.	5.1	119
8	Interaction between soybean protein and tea polyphenols under high pressure. <i>Food Chemistry</i> , 2019, 277, 632-638.	4.2	118
9	Interaction mechanism between green tea extract and human α-amylase for reducing starch digestion. <i>Food Chemistry</i> , 2015, 186, 20-25.	4.2	116
10	Recent advances in intelligent food packaging materials: Principles, preparation and applications. <i>Food Chemistry</i> , 2022, 375, 131738.	4.2	115
11	Characterisations of kabuli and desi chickpea starches cultivated in China. <i>Food Chemistry</i> , 2009, 113, 1025-1032.	4.2	112
12	Improving the properties of starch-based antimicrobial composite films using ZnO-chitosan nanoparticles. <i>Carbohydrate Polymers</i> , 2019, 210, 204-209.	5.1	103
13	Impact of mild acid hydrolysis on structure and digestion properties of waxy maize starch. <i>Food Chemistry</i> , 2011, 126, 506-513.	4.2	100
14	Inhibition of α-amylase by polyphenolic compounds: Substrate digestion, binding interactions and nutritional intervention. <i>Trends in Food Science and Technology</i> , 2020, 104, 190-207.	7.8	99
15	Elucidation of stabilizing oil-in-water Pickering emulsion with different modified maize starch-based nanoparticles. <i>Food Chemistry</i> , 2017, 229, 152-158.	4.2	87
16	Characterisation of a novel water-soluble polysaccharide from <i>Leuconostoc citreum</i> SK24.002. <i>Food Hydrocolloids</i> , 2014, 36, 265-272.	5.6	81
17	Biosynthesis of levan by levansucrase from <i>Bacillus methylotrophicus</i> SK 21.002. <i>Carbohydrate Polymers</i> , 2014, 101, 975-981.	5.1	75
18	Combined effects of high-pressure and enzymatic treatments on the hydrolysis of chickpea protein isolates and antioxidant activity of the hydrolysates. <i>Food Chemistry</i> , 2012, 135, 904-912.	4.2	74

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19	Enzymatic modification of corn starch with 4- α -glucanotransferase results in increasing slow digestible and resistant starch. <i>International Journal of Biological Macromolecules</i> , 2014, 65, 208-214.	3.6	74
20	Microbial Starch- α -Converting Enzymes: Recent Insights and Perspectives. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2018, 17, 1238-1260.	5.9	74
21	Characterisations of oil-in-water Pickering emulsion stabilized hydrophobic phytoglycogen nanoparticles. <i>Food Hydrocolloids</i> , 2018, 76, 78-87.	5.6	72
22	Effect of controlled gelatinization in excess water on digestibility of waxy maize starch. <i>Food Chemistry</i> , 2010, 119, 41-48.	4.2	64
23	Dual-enzymatic modification of maize starch for increasing slow digestion property. <i>Food Hydrocolloids</i> , 2014, 38, 180-185.	5.6	64
24	Partial branching enzyme treatment increases the low glycaemic property and α -1,6 branching ratio of maize starch. <i>Food Chemistry</i> , 2014, 164, 502-509.	4.2	60
25	Physicochemical characteristics of a high molecular weight bioengineered α -D-glucan from <i>Leuconostoc citreum</i> SK24.002. <i>Food Hydrocolloids</i> , 2015, 50, 37-43.	5.6	59
26	Structural investigation of a neutral extracellular glucan from <i>Lactobacillus reuteri</i> SK24.003. <i>Carbohydrate Polymers</i> , 2014, 106, 384-392.	5.1	58
27	Impact of α -amylase degradation on properties of sugary maize soluble starch particles. <i>Food Chemistry</i> , 2015, 177, 1-7.	4.2	58
28	Molecular Dynamics Simulation for Mechanism Elucidation of Food Processing and Safety: State of the Art. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2019, 18, 243-263.	5.9	58
29	Structural characterizations of waxy maize starch residue following in vitro pancreatin and amyloglucosidase synergistic hydrolysis. <i>Food Hydrocolloids</i> , 2011, 25, 214-220.	5.6	50
30	Structure and physicochemical properties for modified starch-based nanoparticle from different maize varieties. <i>Food Hydrocolloids</i> , 2017, 67, 37-44.	5.6	50
31	Food Matrix Effects for Modulating Starch Bioavailability. <i>Annual Review of Food Science and Technology</i> , 2021, 12, 169-191.	5.1	50
32	Physicochemical properties of a water soluble extracellular homopolysaccharide from <i>Lactobacillus reuteri</i> SK24.003. <i>Carbohydrate Polymers</i> , 2015, 131, 377-383.	5.1	49
33	Resveratrol and inflammatory bowel disease. <i>Annals of the New York Academy of Sciences</i> , 2017, 1403, 38-47.	1.8	49
34	Structure and digestibility of endosperm water-soluble α -glucans from different sugary maize mutants. <i>Food Chemistry</i> , 2014, 143, 156-162.	4.2	48
35	Elucidation of structural difference in theaflavins for modulation of starch digestion. <i>Journal of Functional Foods</i> , 2013, 5, 2024-2029.	1.6	45
36	Phytonutrients for controlling starch digestion: Evaluation of grape skin extract. <i>Food Chemistry</i> , 2014, 145, 205-211.	4.2	45

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37	Development of maize starch with a slow digestion property using maltogenic α -amylase. <i>Carbohydrate Polymers</i> , 2014, 103, 164-169.	5.1	45
38	Metabolic mechanism of phenyllactic acid naturally occurring in Chinese pickles. <i>Food Chemistry</i> , 2015, 186, 265-270.	4.2	45
39	Structure elucidation of catechins for modulation of starch digestion. <i>LWT - Food Science and Technology</i> , 2014, 57, 188-193.	2.5	44
40	Impact of dual-enzyme treatment on the octenylsuccinic anhydride esterification of soluble starch nanoparticle. <i>Carbohydrate Polymers</i> , 2016, 147, 392-400.	5.1	43
41	Mechanism of binding interactions between young apple polyphenols and porcine pancreatic α -amylase. <i>Food Chemistry</i> , 2019, 283, 468-474.	4.2	43
42	The effects of an antioxidative pentapeptide derived from chickpea protein hydrolysates on oxidative stress in Caco-2 and HT-29 cell lines. <i>Journal of Functional Foods</i> , 2014, 7, 719-726.	1.6	42
43	Biotransformation of stevioside by <i>Leuconostoc citreum</i> SK24.002 alternansucrase acceptor reaction. <i>Food Chemistry</i> , 2014, 146, 23-29.	4.2	41
44	High-level production of poly(β -glutamic acid) by a newly isolated glutamate-independent strain, <i>Bacillus methylotrophicus</i> . <i>Process Biochemistry</i> , 2015, 50, 329-335.	1.8	39
45	Structure and functional properties of starches from Chinese ginkgo (<i>Ginkgo biloba</i> L.) nuts. <i>Food Research International</i> , 2012, 49, 303-310.	2.9	38
46	Elucidation of Substituted Ester Group Position in Octenylsuccinic Anhydride Modified Sugary Maize Soluble Starch. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 11696-11705.	2.4	36
47	Characterizations of oil-in-water emulsion stabilized by different hydrophobic maize starches. <i>Carbohydrate Polymers</i> , 2017, 166, 195-201.	5.1	36
48	Purification, preliminary structural characterization and <i>in vitro</i> antioxidant activity of polysaccharides from <i>Acanthus ilicifolius</i> . <i>LWT - Food Science and Technology</i> , 2014, 56, 9-14.	2.5	35
49	Characterizations and Bioavailability of Dendrimer-like Glucan Nanoparticulate System Containing Resveratrol. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 6420-6429.	2.4	35
50	Improving properties of normal maize starch films using dual-modification: Combination treatment of debranching and hydroxypropylation. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 197-202.	3.6	32
51	Polysaccharides modification through green technology: Role of ultrasonication towards improving physicochemical properties of (1-3)(1-6)- α -D-glucans. <i>Food Hydrocolloids</i> , 2015, 50, 166-173.	5.6	28
52	Characterization of a thermostable glucose isomerase with an acidic pH optimum from <i>Acidothermus cellulolyticus</i> . <i>Food Research International</i> , 2012, 47, 364-367.	2.9	26
53	Effect of high hydrostatic pressure (HHP) treatment on texture changes of water bamboo shoots cultivated in China. <i>Postharvest Biology and Technology</i> , 2011, 59, 327-329.	2.9	25
54	Improved the slow digestion property of maize starch using partially β -amylolysis. <i>Food Chemistry</i> , 2014, 152, 128-132.	4.2	24

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55	Biological macromolecule delivery system for improving functional performance of hydrophobic nutraceuticals. <i>Current Opinion in Food Science</i> , 2016, 9, 56-61.	4.1	23
56	Engineering <i>Escherichia coli</i> for the High-Titer Biosynthesis of Lacto-N-tetraose. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 8704-8712.	2.4	23
57	Arginase from <i>Bacillus thuringiensis</i> SK 20.001: Purification, characteristics, and implications for l-ornithine biosynthesis. <i>Process Biochemistry</i> , 2013, 48, 663-668.	1.8	22
58	Enzyme-catalysed synthesis of plant steryl laurate in non-aqueous media using salt hydrate pairs and its characterisation. <i>Journal of Functional Foods</i> , 2014, 7, 452-461.	1.6	22
59	<i>Leuconostoc citreum</i> SK24.002 glucansucrase: Biochemical characterisation and de novo synthesis of β -glucan. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 123-131.	3.6	22
60	Characterisations of <i>Lactobacillus reuteri</i> SK24.003 glucansucrase: Implications for β -gluco-poly- and oligosaccharides biosynthesis. <i>Food Chemistry</i> , 2017, 222, 105-112.	4.2	21
61	Production of Mannitol from a High Concentration of Glucose by <i>Candida parapsilosis</i> SK26.001. <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 391-406.	1.4	21
62	Structure, properties and potential applications of phytyglycogen and waxy starch subjected to carboxymethylation. <i>Carbohydrate Polymers</i> , 2020, 234, 115908.	5.1	21
63	Structural elucidation and in vitro fermentation of extracellular β -D-glucan from <i>Lactobacillus reuteri</i> SK24.003. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2015, 6, 109-116.	1.5	20
64	Effect of New Frying Technology on Starchy Food Quality. <i>Foods</i> , 2021, 10, 1852.	1.9	20
65	Development of dendrimer-like glucan-stabilized Pickering emulsions incorporated with β -carotene. <i>Food Chemistry</i> , 2022, 385, 132626.	4.2	20
66	Biosynthesis of lactosylfructoside by an intracellular levansucrase from <i>Bacillus methylotrophicus</i> SK 21.002. <i>Carbohydrate Research</i> , 2015, 401, 122-126.	1.1	19
67	Elucidating molecular structure and prebiotics properties of bioengineered β -D-glucan from <i>Leuconostoc citreum</i> SK24.002. <i>Food Hydrocolloids</i> , 2016, 54, 227-233.	5.6	19
68	Rebuilding the lid region from conformational and dynamic features to engineering applications of lipase in foods: Current status and future prospects. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2022, 21, 2688-2714.	5.9	19
69	Dendrimer-like glucan nanoparticulate system improves the solubility and cellular antioxidant activity of coenzyme Q10. <i>Food Chemistry</i> , 2020, 333, 127510.	4.2	18
70	Enzymatic hydrolysis of inulin in a bioreactor coupled with an ultrafiltration membrane. <i>Desalination</i> , 2012, 284, 309-315.	4.0	17
71	Effects of high hydrostatic pressure on lipase from <i>Rhizopus chinensis</i> : I. Conformational changes. <i>Innovative Food Science and Emerging Technologies</i> , 2017, 41, 267-276.	2.7	17
72	Purification and characterization of an intracellular β -l-rhamnosidase from a newly isolated strain, <i>Alternaria alternata</i> SK37.001. <i>Food Chemistry</i> , 2018, 269, 63-69.	4.2	17

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73	Recent advances on biological difructose anhydride III production using inulase II from inulin. <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 457-465.	1.7	15
74	DFA III production from inulin with inulin fructotransferase in ultrafiltration membrane bioreactor. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 55-57.	1.1	15
75	Structural modification and characterisation of a sugary maize soluble starch particle after double enzyme treatment. <i>Carbohydrate Polymers</i> , 2015, 122, 101-107.	5.1	15
76	Characterization of a thermostable arginase from <i>Rummeliibacillus pycnus</i> SK31.001. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, S68-S75.	1.8	15
77	The contribution of intact structure and food processing to functionality of plant cell wall-derived dietary fiber. <i>Food Hydrocolloids</i> , 2022, 127, 107511.	5.6	15
78	Purification and characterization of an intracellular levansucrase derived from <i>Bacillus methylophilus</i> SK 21.002. <i>Biotechnology and Applied Biochemistry</i> , 2015, 62, 815-822.	1.4	14
79	Development of a recombinant d-mannose isomerase and its characterizations for d-mannose synthesis. <i>International Journal of Biological Macromolecules</i> , 2016, 89, 328-335.	3.6	14
80	Advances in applications, metabolism, and biotechnological production of L-xylulose. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 535-540.	1.7	14
81	Plant-sourced intrinsic dietary fiber: Physical structure and health function. <i>Trends in Food Science and Technology</i> , 2021, 118, 341-355.	7.8	13
82	Difructosan anhydrides III preparation from sucrose by coupled enzyme reaction. <i>Carbohydrate Polymers</i> , 2013, 92, 1608-1611.	5.1	12
83	Structure-prebiotic properties relationship for Î±-D-glucan from <i>Leuconostoc citreum</i> SK24.002. <i>Food Hydrocolloids</i> , 2016, 57, 246-252.	5.6	12
84	Behavior of <i>Yarrowia lipolytica</i> Lipase Lip2 under high hydrostatic pressure: Conformational changes and isokineticity diagram. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 127, 34-39.	1.8	11
85	Overproduction of <i>Rummeliibacillus pycnus</i> arginase with multi-copy insertion of the <i>arg R_{pyc}</i> cassette into the <i>Bacillus subtilis</i> chromosome. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6039-6048.	1.7	11
86	Enhancing the thermal stability of inulin fructotransferase with high hydrostatic pressure. <i>International Journal of Biological Macromolecules</i> , 2015, 74, 171-178.	3.6	10
87	Cloning, expression, and characterization of a thermostable arginase from <i>Geobacillus thermodenitrificans</i> NG80 for ornithine production. <i>Biotechnology and Applied Biochemistry</i> , 2016, 63, 391-397.	1.4	10
88	Biofabrication, structure and characterization of an amylopectin-based cyclic glucan. <i>Food and Function</i> , 2020, 11, 2543-2554.	2.1	10
89	Deciphering molecular interaction and digestibility in retrogradation of amylopectin gel networks. <i>Food and Function</i> , 2021, 12, 11460-11468.	2.1	10
90	Functional characteristics of starches from the root of <i>Cynanchum auriculatum</i> Royle ex Wight grown in China. <i>Carbohydrate Polymers</i> , 2012, 88, 568-575.	5.1	9

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91	Dry powder preparation of inulin fructotransferase from <i>Arthrobacter aurescens</i> SK 8.001 fermented liquor. <i>Carbohydrate Polymers</i> , 2013, 95, 654-656.	5.1	9
92	Intracellular synthesis of glutamic acid in <i>Bacillus methylotrophicus</i> SK19.001, a glutamate-independent poly(γ -glutamic acid)-producing strain. <i>Journal of the Science of Food and Agriculture</i> , 2016, 96, 66-72.	1.7	9
93	Synthesis of potential prebiotic γ -glucooligosaccharides using microbial glucansucrase and their <i>in vitro</i> fecal fermentation. <i>Food and Function</i> , 2020, 11, 1672-1683.	2.1	9
94	Activity of <i>Candida rugosa</i> lipase for synthesis of hexyl octoate under high hydrostatic pressure and the mechanism of this reaction. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, S439-S444.	1.8	8
95	Thermostability and Specific-Activity Enhancement of an Arginine Deiminase from <i>Enterococcus faecalis</i> SK23.001 via Semirational Design for Citrulline Production. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 8841-8850.	2.4	8
96	Effects of pH and dissolved oxygen on the synthesis of γ -glutamyltranspeptidase from <i>Bacillus subtilis</i> SK 11.004. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 475-480.	1.7	7
97	Effects of high hydrostatic pressure on <i>Rhizopus chinensis</i> lipase: II. Intermediate states during unfolding. <i>Innovative Food Science and Emerging Technologies</i> , 2018, 45, 152-160.	2.7	7
98	Fabrication and characterizations of cyclic amylopectin-based delivery system incorporated with β -carotene. <i>Food Hydrocolloids</i> , 2022, 130, 107680.	5.6	7
99	Sorbitol counteracts high hydrostatic pressure-induced denaturation of inulin fructotransferase. <i>International Journal of Biological Macromolecules</i> , 2014, 70, 251-256.	3.6	6
100	Polysaccharide Modification through Green Technology: Role of Endodextranase in Improving the Physicochemical Properties of α -D-Glucan. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 6450-6456.	2.4	6
101	Elucidation of pressure-induced lid movement and catalysis behavior of <i>Rhizopus chinensis</i> lipase. <i>International Journal of Biological Macromolecules</i> , 2017, 103, 360-365.	3.6	6
102	Impact of glucansucrase treatment on structure and properties of maize starch. <i>Starch/Staerke</i> , 2017, 69, 1600222.	1.1	6
103	Improving the catalytic behavior of inulin fructotransferase under high hydrostatic pressure. <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 2588-2594.	1.7	5
104	Development of a novel starch-based dietary fiber using glucanotransferase. <i>Food and Function</i> , 2021, 12, 5745-5754.	2.1	5
105	Effect of shaking velocity on mono-glycosyl-stevioside productivity via alternansucrase acceptor reaction. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 116, 106-112.	1.8	4
106	A coupled system involving arginase and urease for L-ornithine production. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, S303-S310.	1.8	3
107	Immobilization of <i>Y. lipolytica</i> lipase and the continuous synthesis of geranyl propionate. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, S311-S316.	1.8	3
108	Coupled effects of salt and pressure on catalytic ability of <i>Rhizopus chinensis</i> lipase. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 5381-5387.	1.7	3

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109	Fabrication, Structure and Functional Characterizations of pH-Responsive Hydrogels Derived from Phytoglycogen. <i>Foods</i> , 2021, 10, 2653.	1.9	3
110	2nd international symposium on phytochemicals in medicine and food (2-ISPMF). <i>Phytochemistry Reviews</i> , 2017, 16, 375-377.	3.1	2
111	In situ and real-time insight into <i>Rhizopus chinensis</i> lipase under high pressure and temperature: Conformational traits and biobehavioural analysis. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 1314-1323.	3.6	2
112	Biosynthesis, structural characteristics and prebiotic properties of maltitol-based acceptor products. <i>Journal of Functional Foods</i> , 2021, 78, 104374.	1.6	2
113	<i>Starch.</i> , 2020, , 1-45.		1
114	Reuteransucrase-catalytic kinetic modeling and functional characteristics for novel prebiotic gluco-oligomers. <i>Food and Function</i> , 2020, 11, 7037-7047.	2.1	1
115	Characterization of xylitol 4-dehydrogenase from <i>Erwinia aphidicola</i> and its co-expression with NADH oxidase in <i>Bacillus subtilis</i> . <i>Process Biochemistry</i> , 2021, 104, 92-100.	1.8	1
116	Editorial: Advances and Challenges of Carrier Architectures for Bioactive Delivery Systems. <i>Frontiers in Chemistry</i> , 2021, 9, 739946.	1.8	1
117	<i>Starch.</i> , 2021, , 1909-1953.		0
118	Characterization of a recombinant arginine deiminase from <i>Halothermothrix orenii</i> and its application in citrulline production. <i>Biotechnology and Applied Biochemistry</i> , 0, , .	1.4	0