Wanmeng Mu

List of Publications by Citations

224 papers	3,986 citations	33 h-index	49 g-index
239 ext. papers	4,921 ext. citations	6.2 avg, IF	5.9 L-index

#	Paper	IF	Citations
224	Recent advances on applications and biotechnological production of D-psicose. *Applied Microbiology and Biotechnology*, **2012**, 94, 1461-7	5.7	108
223	Characterization of D-tagatose-3-epimerase from Rhodobacter sphaeroides that converts D-fructose into D-psicose. *Biotechnology Letters*, **2009**, 31, 857-62	3	101
222	Enzymatic approaches to rare sugar production. *Biotechnology Advances*, **2017**, 35, 267-274	17.8	95
221	Characterization and antioxidant activity of Ginkgo biloba exocarp polysaccharides. *Carbohydrate Polymers*, **2012**, 87, 40-45	10.3	95
220	Cloning, expression, and characterization of a D-psicose 3-epimerase from Clostridium cellulolyticum H10. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 7785-92	5.7	93
219	Recent research on 3-phenyllactic acid, a broad-spectrum antimicrobial compound. *Applied Microbiology and Biotechnology*, **2012**, 95, 1155-63	5.7	92
218	An overview of biological production of L-theanine. *Biotechnology Advances*, **2015**, 33, 335-42	17.8	79
217	Recent advances in d-allulose: Physiological functionalities, applications, and biological production. *Trends in Food Science and Technology*, **2016**, 54, 127-137	15.3	68
216	A D-psicose 3-epimerase with neutral pH optimum from Clostridium bolteae for D-psicose production: cloning, expression, purification, and characterization. *Applied Microbiology and Biotechnology*, **2014**, 98, 717-25	5.7	67
215	Characterization of a metal-dependent D-psicose 3-epimerase from a novel strain, Desmospora sp. 8437. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 11468-76	5.7	64
214	Optimization of culture medium for the production of phenyllactic acid by Lactobacillus sp. SK007. *Bioresource Technology*, **2009**, 100, 1366-70	11	64
213	Reduction of acrylamide level through blanching with treatment by an extremely thermostable L-asparaginase during French fries processing. *Extremophiles*, **2015**, 19, 841-51	3	62
212	Characterization of a novel metal-dependent D-psicose 3-epimerase from Clostridium scindens 35704. *PLoS ONE*, **2013**, 8, e62987	3.7	60
211	Biosynthesis of levan by levansucrase from Bacillus methylotrophicus SK 21.002. *Carbohydrate Polymers*, **2014**, 101, 975-81	10.3	57
210	Characterization of a d-psicose 3-epimerase from Dorea sp. CAG317 with an acidic pH optimum and a high specific activity. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 120, 68-74		56
209	Characterization of a D-psicose-producing enzyme, D-psicose 3-epimerase, from Clostridium sp. *Biotechnology Letters*, **2013**, 35, 1481-6	3	56
208	Protein Homeostasis Imposes a Barrier on Functional Integration of Horizontally Transferred Genes in Bacteria. *PLoS Genetics*, **2015**, 11, e1005612	6	55

207	3-Phenyllactic acid production by substrate feeding and pH-control in fed-batch fermentation of Lactobacillus sp. SK007. *Bioresource Technology*, **2009**, 100, 5226-9	11	53
206	Biochemical characterization of a D-psicose 3-epimerase from Treponema primitia ZAS-1 and its application on enzymatic production of D-psicose. *Journal of the Science of Food and Agriculture*, **2016**, 96, 49-56	4.3	51
205	Recent novel applications of levansucrases. *Applied Microbiology and Biotechnology*, **2015**, 99, 6959-69	5.7	48
204	An L-arabinose isomerase from Acidothermus cellulolytics ATCC 43068: cloning, expression, purification, and characterization. *Applied Microbiology and Biotechnology*, **2010**, 86, 1089-97	5.7	47
203	Purification and characterization of □glutamyltranspeptidase from Bacillus subtilis SK11.004. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 6233-8	5.7	46
202	Recent research progress on microbial L-asparaginases. *Applied Microbiology and Biotechnology*, **2015**, 99, 1069-79	5.7	45
201	Efficient biosynthesis of levan from sucrose by a novel levansucrase from Brenneria goodwinii. *Carbohydrate Polymers*, **2017**, 157, 1732-1740	10.3	42
200	Purification and partial characterization of Lactobacillus species SK007 lactate dehydrogenase (LDH) catalyzing phenylpyruvic acid (PPA) conversion into phenyllactic acid (PLA). *Journal of Agricultural and Food Chemistry*, **2008**, 56, 2392-9	5.7	42
199	Biosynthesis of levan from sucrose using a thermostable levansucrase from Lactobacillus reuteri LTH5448. *International Journal of Biological Macromolecules*, **2018**, 113, 29-37	7.9	41
198	Biochemical characterization of an extremely thermostable l-asparaginase from Thermococcus gammatolerans EJ3. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 109, 122-129		41
197	Development of efficient enzymatic production of theanine by □glutamyltranspeptidase from a newly isolated strain of Bacillus subtilis, SK11.004. *Journal of the Science of Food and Agriculture*, **2010**, 90, 2563-7	4.3	41
196	Amylosucrase as a transglucosylation tool: From molecular features to bioengineering applications. *Biotechnology Advances*, **2018**, 36, 1540-1552	17.8	37
195	Biotechnical production of trehalose through the trehalose synthase pathway: current status and future prospects. *Applied Microbiology and Biotechnology*, **2018**, 102, 2965-2976	5.7	36
194	Thermostable L-arabinose isomerase from Bacillus stearothermophilus IAM 11001 for D-tagatose production: gene cloning, purification and characterisation. *Journal of the Science of Food and Agriculture*, **2010**, 90, 1327-33	4.3	34
193	Inulin and its enzymatic production by inulosucrase: Characteristics, structural features, molecular modifications and applications. *Biotechnology Advances*, **2019**, 37, 306-318	17.8	34
192	Current studies on sucrose isomerase and biological isomaltulose production using sucrose isomerase. *Applied Microbiology and Biotechnology*, **2014**, 98, 6569-82	5.7	33
191	Recent advances in the applications and biotechnological production of mannitol. *Journal of Functional Foods*, **2017**, 36, 404-409	5.1	33
190	From fructans to difructose dianhydrides. *Applied Microbiology and Biotechnology*, **2015**, 99, 175-88	5.7	32

189	Recent research on the physiological functions, applications, and biotechnological production of D-allose. *Applied Microbiology and Biotechnology*, **2018**, 102, 4269-4278	5.7	32
188	Purification and characterization of inulin fructotransferase (DFA III-forming) from Arthrobacter aurescens SK 8.001. *Bioresource Technology*, **2011**, 102, 1757-64	11	32
187	Physicochemical properties of a high molecular weight levan from Brenneria sp. EniD312. *International Journal of Biological Macromolecules*, **2018**, 109, 810-818	7.9	31
186	Current studies on physiological functions and biological production of lactosucrose. *Applied Microbiology and Biotechnology*, **2013**, 97, 7073-80	5.7	30
185	Construction of a Food Grade Recombinant Bacillus subtilis Based on Replicative Plasmids with an Auxotrophic Marker for Biotransformation of d-Fructose to d-Allulose. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 3243-50	5.7	30
184	Improving the Thermostability and Catalytic Efficiency of the d-Psicose 3-Epimerase from Clostridium bolteae ATCC BAA-613 Using Site-Directed Mutagenesis. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 3386-93	5.7	30
183	Isomerases for biotransformation of D-hexoses. *Applied Microbiology and Biotechnology*, **2015**, 99, 6571-84	3.7	28
182	Purification, preliminary structural characterization and in vitro antioxidant activity of polysaccharides from Acanthus ilicifolius. *LWT - Food Science and Technology*, **2014**, 56, 9-14	5.4	28
181	Biochemical characterization of a thermostable l-arabinose isomerase from a thermoacidophilic bacterium, Alicyclobacillus hesperidum URH17-3-68. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 102, 120-126		27
180	Bioconversion of phenylpyruvate to phenyllactate: gene cloning, expression, and enzymatic characterization of D- and L1-lactate dehydrogenases from Lactobacillus plantarum SK002. *Applied Biochemistry and Biotechnology*, **2010**, 162, 242-51	3.2	27
179	Food-Grade Expression of d-Psicose 3-Epimerase with Tandem Repeat Genes in Bacillus subtilis. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 5701-7	5.7	27
178	l-arabinose isomerases: Characteristics, modification, and application. *Trends in Food Science and Technology*, **2018**, 78, 25-33	15.3	27
177	Current research on cellobiose 2-epimerase: Enzymatic properties, mechanistic insights, and potential applications in the dairy industry. *Trends in Food Science and Technology*, **2018**, 82, 167-176	15.3	26
176	Characterization of a d-tagatose 3-epimerase from Caballeronia fortuita and its application in rare sugar production. *International Journal of Biological Macromolecules*, **2019**, 138, 536-545	7.9	25
175	Thermostability Improvement of the d-Allulose 3-Epimerase from Dorea sp. CAG317 by Site-Directed Mutagenesis at the Interface Regions. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 5593-5601	5.7	25
174	Recent advances in Levansucrase and Inulosucrase: evolution, characteristics, and application. *Critical Reviews in Food Science and Nutrition*, **2019**, 59, 3630-3647	11.5	24
173	Hidden Reaction: Mesophilic Cellobiose 2-Epimerases Produce Lactulose. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 2530-2539	5.7	23
172	An overview on biological production of functional lactose derivatives. *Applied Microbiology and Biotechnology*, **2019**, 103, 3683-3691	5.7	23

171	Production of 4-hydroxyphenyllactic acid by Lactobacillus sp. SK007 fermentation. *Journal of Bioscience and Bioengineering*, **2010**, 109, 369-71	3.3	23
170	Enzymatic production of D-3-phenyllactic acid by Pediococcus pentosaceus D-lactate dehydrogenase with NADH regeneration by Ogataea parapolymorpha formate dehydrogenase. *Biotechnology Letters*, **2014**, 36, 627-31	3	22
169	Recent advances on physiological functions and biotechnological production of epilactose. *Applied Microbiology and Biotechnology*, **2013**, 97, 1821-7	5.7	22
168	Characterization of a thermostable glucose isomerase with an acidic pH optimum from Acidothermus cellulolyticus. *Food Research International*, **2012**, 47, 364-367	7	22
167	Characterization of D-lactate dehydrogenase from Pediococcus acidilactici that converts phenylpyruvic acid into phenyllactic acid. *Biotechnology Letters*, **2012**, 34, 907-11	3	22
166	Characterisation of a novel cellobiose 2-epimerase from thermophilic Caldicellulosiruptor obsidiansis for lactulose production. *Journal of the Science of Food and Agriculture*, **2017**, 97, 3095-3105	4.3	21
165	D-lyxose isomerase and its application for functional sugar production. *Applied Microbiology and Biotechnology*, **2018**, 102, 2051-2062	5.7	21
164	Recent progress on biological production of β-arbutin. *Applied Microbiology and Biotechnology*, **2018**, 102, 8145-8152	5.7	21
163	Efficient Biosynthesis of Lactosucrose from Sucrose and Lactose by the Purified Recombinant Levansucrase from Leuconostoc mesenteroides B-512 FMC. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 9755-63	5.7	20
162	Recent advances on 2R-fucosyllactose: physiological properties, applications, and production approaches. *Critical Reviews in Food Science and Nutrition*, **2020**, 1-10	11.5	20
161	L-Rhamnose isomerase and its use for biotechnological production of rare sugars. *Applied Microbiology and Biotechnology*, **2016**, 100, 2985-92	5.7	20
160	Characterization of D-lactate dehydrogenase producing D-3-phenyllactic acid from Pediococcus pentosaceus. *Bioscience, Biotechnology and Biochemistry*, **2012**, 76, 853-5	2.1	20
159	Identification of an α(1,4)-Glucan-Synthesizing Amylosucrase from Cellulomonas carboniz T26. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 2110-2119	5.7	19
158	Highly efficient biosynthesis of β-arbutin from hydroquinone by an amylosucrase from Cellulomonas carboniz. *Process Biochemistry*, **2018**, 68, 93-99	4.8	19
157	Production of 3-phenyllactic acid and 4-hydroxyphenyllactic acid by Pediococcus acidilactici DSM 20284 fermentation. *European Food Research and Technology*, **2012**, 235, 581-585	3.4	19
156	Production of d-Allulose with d-Psicose 3-Epimerase Expressed and Displayed on the Surface of Bacillus subtilis Spores. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 7201-7	5.7	19
155	Biosynthesis of inulin from sucrose using inulosucrase from Lactobacillus gasseri DSM 20604. *International Journal of Biological Macromolecules*, **2018**, 109, 1209-1218	7.9	19
154	Short communication: 3-phenyllactic acid production in milk by Pediococcus pentosaceus SK25 during laboratory fermentation process. *Journal of Dairy Science*, **2015**, 98, 813-7	4	18

153	Characterization of an epilactose-producing cellobiose 2-epimerase from Thermoanaerobacterium saccharolyticum. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 116, 39-44		17
152	Engineering of Alicyclobacillus hesperidum L-arabinose isomerase for improved catalytic activity and reduced pH optimum using random and site-directed mutagenesis. *Applied Biochemistry and Biotechnology*, **2015**, 177, 1480-92	3.2	17
151	Properties of a novel polydatin-β-d-glucosidase from Aspergillus niger SK34.002 and its application in enzymatic preparation of resveratrol. *Journal of the Science of Food and Agriculture*, **2016**, 96, 2588-95	4.3	17
150	Enzymatic Production of Melibiose from Raffinose by the Levansucrase from Leuconostoc mesenteroides B-512 FMC. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 3910-3918	5.7	16
149	Biosynthesis of lactosylfructoside by an intracellular levansucrase from Bacillus methylotrophicus SK 21.002. *Carbohydrate Research*, **2015**, 401, 122-6	2.9	16
148	Enzymatic hydrolysis of inulin in a bioreactor coupled with an ultrafiltration membrane. *Desalination*, **2012**, 284, 309-315	10.3	16
147	Preparation of a novel water-soluble gel from Erwinia amylovora levan. *International Journal of Biological Macromolecules*, **2019**, 122, 469-478	7.9	16
146	Production of d-allulose from d-glucose by Escherichia coli transformant cells co-expressing d-glucose isomerase and d-psicose 3-epimerase genes. *Journal of the Science of Food and Agriculture*, **2017**, 97, 3420-3426	4.3	15
145	Atmospheric and room temperature plasma (ARTP) mutagenesis enables xylitol over-production with yeast Candida tropicalis. *Journal of Biotechnology*, **2019**, 296, 7-13	3.7	15
144	Mannitol: physiological functionalities, determination methods, biotechnological production, and applications. *Applied Microbiology and Biotechnology*, **2020**, 104, 6941-6951	5.7	15
143	Recent advances on biological difructose anhydride III production using inulase II from inulin. *Applied Microbiology and Biotechnology*, **2011**, 92, 457-65	5.7	15
142	Semi-rational design and molecular dynamics simulations study of the thermostability enhancement of cellobiose 2-epimerases. *International Journal of Biological Macromolecules*, **2020**, 154, 1356-1365	7.9	15
141	Characterization of a novel d-lyxose isomerase from Thermoflavimicrobium dichotomicum and its application for D-mannose production. *Process Biochemistry*, **2019**, 83, 131-136	4.8	14
140	α-L-Fucosidases and their applications for the production of fucosylated human milk oligosaccharides. *Applied Microbiology and Biotechnology*, **2020**, 104, 5619-5631	5.7	14
139	An overview of the biological production of 1-deoxynojirimycin: current status and future perspective. *Applied Microbiology and Biotechnology*, **2019**, 103, 9335-9344	5.7	14
138	DFA III production from inulin with inulin fructotransferase in ultrafiltration membrane bioreactor. *Journal of Bioscience and Bioengineering*, **2012**, 113, 55-7	3.3	14
137	Characterization of ribose-5-phosphate isomerase converting D-psicose to D-allose from Thermotoga lettingae TMO. *Biotechnology Letters*, **2013**, 35, 719-24	3	14
136	Efficient biotransformation of d-fructose to d-mannose by a thermostable d-lyxose isomerase from Thermosediminibacter oceani. *Process Biochemistry*, **2016**, 51, 2026-2033	4.8	14

135	Identification of a recombinant inulin fructotransferase (difructose dianhydride III forming) from Arthrobacter sp. 161MFSha2.1 with high specific activity and remarkable thermostability. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 3509-15	5.7	13
134	Advances in the enzymatic production of L-hexoses. *Applied Microbiology and Biotechnology*, **2016**, 100, 6971-9	5.7	13
133	Quantification of Lactulose and Epilactose in the Presence of Lactose in Milk using a dual HPLC analysis. *Food Analytical Methods*, **2016**, 9, 2210-2222	3.4	13
132	Insights into hydrolysis versus transfructosylation: Mutagenesis studies of a novel levansucrase from Brenneria sp. EniD312. *International Journal of Biological Macromolecules*, **2018**, 116, 335-345	7.9	13
131	Recent studies on the biological production of D-mannose. *Applied Microbiology and Biotechnology*, **2019**, 103, 8753-8761	5.7	13
130	Synthesis of raffinose by transfructosylation using recombinant levansucrase from Clostridium arbusti SL206. *Journal of the Science of Food and Agriculture*, **2017**, 97, 43-49	4.3	13
129	Production of Mannitol from a High Concentration of Glucose by Candida parapsilosis SK26.001. *Applied Biochemistry and Biotechnology*, **2017**, 181, 391-406	3.2	13
128	Cloning and extracellular expression of inulin fructotransferase from Arthrobacter aurescens SK 8.001 in E. coli. *Journal of the Science of Food and Agriculture*, **2011**, 91, 2715-21	4.3	13
127	Identification of a Potent Enzyme for the Detoxification of Zearalenone. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 376-383	5.7	13
126	Efficient production of inulooligosaccharides from inulin by endoinulinase from Aspergillus arachidicola. *Carbohydrate Polymers*, **2019**, 208, 70-76	10.3	13
125	Characterization of a novel thermostable l-rhamnose isomerase from Thermobacillus composti KWC4 and its application for production of d-allose. *Process Biochemistry*, **2017**, 53, 153-161	4.8	12
124	Characterization of a novel d-arabinose isomerase from Thermanaeromonas toyohensis and its application for the production of d-ribulose and l-fuculose. *Enzyme and Microbial Technology*, **2019**, 131, 109427	3.8	12
123	Construction of an enzymatic route using a food-grade recombinant Bacillus subtilis for the production and purification of epilactose from lactose. *Journal of Dairy Science*, **2018**, 101, 1872-1882	4	12
122	Advances in applications, metabolism, and biotechnological production of L-xylulose. *Applied Microbiology and Biotechnology*, **2016**, 100, 535-40	5.7	12
121	Difructosan anhydrides III preparation from sucrose by coupled enzyme reaction. *Carbohydrate Polymers*, **2013**, 92, 1608-11	10.3	12
120	Promising properties of a formate dehydrogenase from a methanol-assimilating yeast Ogataea parapolymorpha DL-1 in His-tagged form. *Applied Microbiology and Biotechnology*, **2014**, 98, 1621-30	5.7	12
119	Characterization of a thermostable arginase from Rummeliibacillus pycnus SK31.001. *Journal of Molecular Catalysis B: Enzymatic*, **2016**, 133, S68-S75		12
118	Production of d-mannose from d-glucose by co-expression of d-glucose isomerase and d-lyxose isomerase in Escherichia coli. *Journal of the Science of Food and Agriculture*, **2018**, 98, 4895-4902	4.3	11

117	Characterization of a thermostable recombinant l-rhamnose isomerase from Caldicellulosiruptor obsidiansis OB47 and its application for the production of l-fructose and l-rhamnulose. *Journal of the Science of Food and Agriculture*, **2018**, 98, 2184-2193	4.3	11
116	Metabolic Engineering of for Lacto--triose II Production with High Productivity. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 3702-3711	5.7	11
115	Lactic acid bacteria-derived □-glucans: From enzymatic synthesis to miscellaneous applications. *Biotechnology Advances*, **2021**, 47, 107708	17.8	11
114	Cloning, Expression, and Characterization of a Novel L-Arabinose Isomerase from the Psychrotolerant Bacterium Pseudoalteromonas haloplanktis. *Molecular Biotechnology*, **2016**, 58, 695-706	3	11
113	In-depth biochemical identification of a novel methyl parathion hydrolase from Azohydromonas australica and its high effectiveness in the degradation of various organophosphorus pesticides. *Bioresource Technology*, **2021**, 323, 124641	11	11
112	Isomerases and epimerases for biotransformation of pentoses. *Applied Microbiology and Biotechnology*, **2018**, 102, 7283-7292	5.7	11
111	Sucrose isomers as alternative sweeteners: properties, production, and applications. *Applied Microbiology and Biotechnology*, **2019**, 103, 8677-8687	5.7	10
110	Preparation, characterization and application of levan/montmorillonite biocomposite and levan/BSA nanoparticle. *Carbohydrate Polymers*, **2020**, 234, 115921	10.3	10
109	Probing the Role of Two Critical Residues in Inulin Fructotransferase (DFA III-Producing) Thermostability from Arthrobacter sp. □161MFSha2.1. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 6188-95	5.7	10
108	An overview of levan-degrading enzyme from microbes. *Applied Microbiology and Biotechnology*, **2019**, 103, 7891-7902	5.7	10
107	Polyol dehydrogenases: intermediate role in the bioconversion of rare sugars and alcohols. *Applied Microbiology and Biotechnology*, **2019**, 103, 6473-6481	5.7	10
106	Efficient secretion of inulin fructotransferase in Pichia pastoris using the formaldehyde dehydrogenase 1 promoter. *Journal of Industrial Microbiology and Biotechnology*, **2014**, 41, 1783-91	4.2	10
105	Molecular cloning, expression, and enzymatic characterization of Solanum tuberosum hydroperoxide lyase. *European Food Research and Technology*, **2012**, 234, 723-731	3.4	10
104	Sugar alcohols derived from lactose: lactitol, galactitol, and sorbitol. *Applied Microbiology and Biotechnology*, **2020**, 104, 9487-9495	5.7	10
103	Simulation-guided enzyme discovery: A new microbial source of cellobiose 2-epimerase. *International Journal of Biological Macromolecules*, **2019**, 139, 1002-1008	7.9	10
102	High-level extracellular expression of inulin fructotransferase in Pichia pastoris for DFA III production. *Journal of the Science of Food and Agriculture*, **2015**, 95, 1408-13	4.3	9
101	Characterization of a recombinant l-ribose isomerase from Mycetocola miduiensis and its application for the production of l-ribulose. *Enzyme and Microbial Technology*, **2020**, 135, 109510	3.8	9
100	Combinatorial Modular Pathway Engineering for Guanosine 5RDiphosphate-l-fucose Production in Recombinant. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 5668-5675	5.7	9

99	Purification and characterization of an intracellular α-L-rhamnosidase from a newly isolated strain, Alternaria alternata SK37.001. *Food Chemistry*, **2018**, 269, 63-69	8.5	9
98	Allitol: production, properties and applications. *International Journal of Food Science and Technology*, **2017**, 52, 91-97	3.8	9
97	Purification and characterization of an intracellular levansucrase derived from Bacillus methylotrophicus SK 21.002. *Biotechnology and Applied Biochemistry*, **2015**, 62, 815-22	2.8	9
96	Microbial phospholipase D: Identification, modification and application. *Trends in Food Science and Technology*, **2020**, 96, 145-156	15.3	9
95	Pathway Optimization of 2′-Fucosyllactose Production in Engineered. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 1567-1577	5.7	9
94	Characterization of a thermostable inulin fructotransferase from Clostridium clostridioforme AGR2157 that produces difructose dianhydride I from inulin. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 120, 16-22		8
93	Synthesis of Lactosucrose Using a Recombinant Levansucrase from Brenneria goodwinii. *Applied Biochemistry and Biotechnology*, **2018**, 186, 292-305	3.2	8
92	Dry powder preparation of inulin fructotransferase from Arthrobacter aurescens SK 8.001 fermented liquor. *Carbohydrate Polymers*, **2013**, 95, 654-6	10.3	8
91	Bioproduction of D-psicose using permeabilized cells of newly isolated Rhodobacter sphaeroides SK011. *Frontiers of Chemical Engineering in China*, **2009**, 3, 393-398		8
90	Cloning and characterization of a new ribitol dehydrogenase from Providencia alcalifaciens RIMD 1656011. *Journal of the Science of Food and Agriculture*, **2016**, 96, 2917-24	4.3	8
89	Reaction investigation of lactulose-producing cellobiose 2-epimerases under operational relevant conditions. *Journal of Molecular Catalysis B: Enzymatic*, **2016**, 133, S80-S87		8
88	Production of l-ribose from l-arabinose by co-expression of l-arabinose isomerase and d-lyxose isomerase in Escherichia coli. *Enzyme and Microbial Technology*, **2020**, 132, 109443	3.8	8
87	Improving Thermostability and Catalytic Behavior of l-Rhamnose Isomerase from Caldicellulosiruptor obsidiansis OB47 toward d-Allulose by Site-Directed Mutagenesis. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 12017-12024	5.7	8
86	Biochemical characterization of a highly thermostable amylosucrase from Truepera radiovictrix DSM 17093. *International Journal of Biological Macromolecules*, **2018**, 116, 744-752	7.9	8
85	Synthesis of allitol from D-psicose using ribitol dehydrogenase and formate dehydrogenase. *Tropical Journal of Pharmaceutical Research*, **2017**, 15, 2701	0.8	7
84	Identification of a novel DFA I-producing inulin fructotransferase from Streptomyces davawensis. *International Journal of Biological Macromolecules*, **2016**, 92, 723-730	7.9	7
83	Facile enzymatic production of difructose dianhydride III from sucrose. *RSC Advances*, **2016**, 6, 103791-103794	3.7	7
82	Bioconversion of sucrose to maltooligosaccharides by the synergistic action of amylosucrase and α-amylase. *Process Biochemistry*, **2018**, 74, 71-76	4.8	7

81	Effects of pH and dissolved oxygen on the synthesis of Eglutamyltranspeptidase from Bacillus subtilis SK 11.004. *Journal of the Science of Food and Agriculture*, **2012**, 92, 475-80	4.3	7
80	Overproduction of Rummeliibacillus pycnus arginase with multi-copy insertion of the arg cassette into the Bacillus subtilis chromosome. *Applied Microbiology and Biotechnology*, **2017**, 101, 6039-6048	5.7	7
79	Improving the Catalytic Behavior of DFA I-Forming Inulin Fructotransferase from Streptomyces davawensis with Site-Directed Mutagenesis. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 7579-7587	5.7	7
78	Human Milk Oligosaccharides: The New Gold Standard for Premium Infant Formula.. *Journal of Agricultural and Food Chemistry*, **2022**,	5.7	7
77	Biochemical characterization of recombinant L-fucose isomerase from Caldanaerobius polysaccharolyticus for L-fuculose production. *International Journal of Biological Macromolecules*, **2020**, 146, 965-975	7.9	7
76	A review on selective l-fucose/d-arabinose isomerases for biocatalytic production of l-fuculose/d-ribulose. *International Journal of Biological Macromolecules*, **2021**, 168, 558-571	7.9	7
75	Chemistry Behind Rare Sugars and Bioprocessing. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 13343-13345	5.7	7
74	Overview of strategies for developing high thermostability industrial enzymes: Discovery, mechanism, modification and challenges. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-18	11.5	7
73	Ribose-5-phosphate isomerases: characteristics, structural features, and applications. *Applied Microbiology and Biotechnology*, **2020**, 104, 6429-6441	5.7	6
72	Characterization of recombinant L-ribose isomerase acquired from Cryobacterium sp. N21 with potential application in L-ribulose production. *Process Biochemistry*, **2020**, 97, 1-10	4.8	6
71	Characterization of a recombinant arginine deiminase from Enterococcus faecalis SK32.001 for L-citrulline production. *Process Biochemistry*, **2018**, 64, 136-142	4.8	6
70	Cloning, expression, and characterization of a thermostable l-arginase from Geobacillus thermodenitrificans NG80-2 for l-ornithine production. *Biotechnology and Applied Biochemistry*, **2016**, 63, 391-7	2.8	6
69	Novel Dextransucrase Gtf-DSM, Highly Similar in Sequence to Reuteransucrase GtfO, Displays Unique Product Specificity. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 12806-12815	5.7	6
68	Large-scale purification of epilactose using a semi-preparative HPLC system. *European Food Research and Technology*, **2017**, 243, 391-402	3.4	6
67	Computer-Aided Targeted Mutagenesis of d-Allulose 3-Epimerase for Improved Thermostability.. *Journal of Agricultural and Food Chemistry*, **2022**,	5.7	6
66	Efficient production of inulin and oligosaccharides using thermostable inulosucrase from Lactobacillus jensenii. *International Journal of Biological Macromolecules*, **2020**, 165, 1250-1257	7.9	6
65	Enhancement of the Brenneria sp. levansucrase thermostability by site-directed mutagenesis at Glu located at the "-TEAP-" residue motif. *Journal of Biotechnology*, **2019**, 290, 1-9	3.7	6
64	Physiological effects, biosynthesis, and derivatization of key human milk tetrasaccharides, lacto--tetraose, and lacto--neotetraose. *Critical Reviews in Biotechnology*, **2021**, 1-19	9.4	6

63	Production and Physicochemical Properties of Food-Grade High-Molecular-Weight Inulin. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 5854-5862	5.7	5
62	Recent advances on biological production of difructose dianhydride III. *Applied Microbiology and Biotechnology*, **2018**, 102, 3007-3015	5.7	5
61	Identification of a Novel Di-D-Fructofuranose 1,2R2,3RDianhydride (DFA III) Hydrolysis Enzyme from Arthrobacter aurescens SK8.001. *PLoS ONE*, **2015**, 10, e0142640	3.7	5
60	Computer-aided search for a cold-active cellobiose 2-epimerase. *Journal of Dairy Science*, **2020**, 103, 7730-7741	4	5
59	One-pot production of d-allulose from inulin by a novel identified thermostable exoinulinase from Aspergillus piperis and Dorea sp. d-allulose 3-epimerase. *Process Biochemistry*, **2020**, 99, 87-95	4.8	5
58	Characterization of a Recombinant D-Allulose 3-epimerase from Thermoclostridium caenicola with Potential Application in D-Allulose Production. *Molecular Biotechnology*, **2021**, 63, 534-543	3	5
57	Structural and Functional Basis of Difructose Anhydride III Hydrolase, Which Sequentially Converts Inulin Using the Same Catalytic Residue. *ACS Catalysis*, **2018**, 8, 10683-10697	13.1	5
56	D-allulose, a versatile rare sugar: recent biotechnological advances and challenges.. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-19	11.5	5
55	Biochemical characterization of a novel thermostable DFA I-forming inulin fructotransferases from Streptomyces peucetius subsp. caesius ATCC 27952. *Enzyme and Microbial Technology*, **2020**, 137, 109519	3.8	4
54	Characterization of a recombinant D-mannose-producing D-lyxose isomerase from Caldanaerobius polysaccharolyticus. *Enzyme and Microbial Technology*, **2020**, 138, 109553	3.8	4
53	Combination of sequence-based and in silico screening to identify novel trehalose synthases. *Enzyme and Microbial Technology*, **2018**, 115, 62-72	3.8	4
52	Thermostable Amylosucrase from DSM 17022: Insight into Its Characteristics and Tetrameric Conformation. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 9868-9876	5.7	4
51	Molecular Dynamics Simulation for Food Enzyme Engineering: Why This Technique Should Be Encouraged To Learn. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 4-6	5.7	4
50	Current methods and applications in computational protein design for food industry. *Critical Reviews in Food Science and Nutrition*, **2020**, 60, 3259-3270	11.5	4
49	A Novel β1,4-Galactosyltransferase from Enables Efficient Biosynthesis of Lacto--Neotetraose via Both Enzymatic and Cell Factory Approaches. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 5683-5690	5.7	4
48	A review on l-ribose isomerases for the biocatalytic production of l-ribose and l-ribulose. *Food Research International*, **2021**, 145, 110409	7	4
47	Detarium microcarpum: A novel source of nutrition and medicine: A review. *Food Chemistry*, **2019**, 274, 900-906	8.5	4
46	Efficient Production of 2RFucosyllactose from l-Fucose Self-Assembling Multienzyme Complexes in Engineered. *ACS Synthetic Biology*, **2021**, 10, 2488-2498	5.7	4

45	Efficient control of acrylamide in French fries by an extraordinarily active and thermo-stable l-asparaginase: A lab-scale study. *Food Chemistry*, **2021**, 360, 130046	8.5	4
44	Biochemical identification of a hyperthermostable l-ribulose 3-epimerase from Labedella endophytica and its application for d-allulose bioconversion. *International Journal of Biological Macromolecules*, **2021**, 189, 214-222	7.9	4
43	Intracellular synthesis of glutamic acid in Bacillus methylotrophicus SK19.001, a glutamate-independent poly(Eglutamic acid)-producing strain. *Journal of the Science of Food and Agriculture*, **2016**, 96, 66-72	4.3	3
42	Thermostability and Specific-Activity Enhancement of an Arginine Deiminase from Enterococcus faecalis SK23.001 via Semirational Design for l-Citrulline Production. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 8841-8850	5.7	3
41	Formation of di-d-fructofuranose-1,2?:2,1?-dianhydride by three novel inulin fructotransferases from the Nocardiaceae family. *Process Biochemistry*, **2017**, 62, 106-113	4.8	3
40	Characterization of a thermostable glycoside hydrolase (CMbg0408) from the hyperthermophilic archaeon Caldivirga maquilingensis IC-167. *Journal of the Science of Food and Agriculture*, **2017**, 97, 2132-2140	4.3	3
39	Overview of a bioremediation tool: organophosphorus hydrolase and its significant application in the food, environmental, and therapy fields. *Applied Microbiology and Biotechnology*, **2021**, 105, 8241-8253	5.7	3
38	Archaeal hyperthermostable mannitol dehydrogenases: A promising industrial enzymes for d-mannitol synthesis. *Food Research International*, **2020**, 137, 109638	7	3
37	Recent advances and future prospective of organophosphorus-degrading enzymes: identification, modification, and application. *Critical Reviews in Biotechnology*, **2021**, 41, 1096-1113	9.4	3
36	Insight into the effects and biotechnological production of kestoses, the smallest fructooligosaccharides. *Critical Reviews in Biotechnology*, **2021**, 41, 34-46	9.4	3
35	Encapsulation and characterisation of grape seed proanthocyanidin extract using sodium alginate and different cellulose derivatives. *International Journal of Food Science and Technology*,	3.8	3
34	Research Advances of d-allulose: An Overview of Physiological Functions, Enzymatic Biotransformation Technologies, and Production Processes. *Foods*, **2021**, 10,	4.9	3
33	Improving the catalytic behaviors of Lactobacillus-derived fructansucrases by truncation strategies. *Enzyme and Microbial Technology*, **2021**, 149, 109857	3.8	3
32	Efficient biosynthesis of lacto-N-neotetraose by a novel 1,4-galactosyltransferase from Aggregatibacter actinomycetemcomitans NUM4039. *Enzyme and Microbial Technology*, **2021**, 153, 109912	3.8	3
31	Recent development of phenyllactic acid: physicochemical properties, biotechnological production strategies and applications.. *Critical Reviews in Biotechnology*, **2021**, 1-16	9.4	3
30	Recent advances in properties, production, and applications of L-ribulose. *Applied Microbiology and Biotechnology*, **2020**, 104, 5663-5672	5.7	2
29	Microbial and enzymatic strategies for the production of L-ribose. *Applied Microbiology and Biotechnology*, **2020**, 104, 3321-3329	5.7	2
28	Lactulose production by a thermostable glycoside hydrolase from the hyperthermophilic archaeon Caldivirga maquilingensis IC-167. *Journal of the Science of Food and Agriculture*, **2018**, 98, 928-937	4.3	2

27	Bioconversion of inulin to difructose anhydride III by a novel inulin fructotransferase from Arthrobacter chlorophenolicus A6. *Process Biochemistry*, **2018**, 75, 130-138	4.8	2
26	A close look on the effect of polyethylene glycol on the levansucrase thermostability: a case study of Brenneria sp. levansucrase. *Journal of the Science of Food and Agriculture*, **2019**, 99, 6315-6323	4.3	2
25	Efficient Synthesis of Glucosyl-Cyclodextrin from Maltodextrins by Combined Action of Cyclodextrin Glucosyltransferase and Amyloglucosidase. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 6023-6029	5.7	2
24	Characterization of d-tagatose 3-epimerase from Rhodobacter sphaeroides SK011. *Journal of Biotechnology*, **2008**, 136, S726	3.7	2
23	Glycosyltransferase from Is a Novel ,3-Fucosyltransferase that Can Be Used for 3-Fucosyllactose Production In Vivo by Metabolically Engineered .. *Journal of Agricultural and Food Chemistry*, **2022**,	5.7	2
22	Improving the Thermostability and Catalytic Activity of an Inulosucrase by Rational Engineering for the Biosynthesis of Microbial Inulin. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 13125-13134	5.7	2
21	Identification of a novel recombinant D-lyxose isomerase from Thermoprotei archaeon with high thermostable, weak-acid and nickel ion dependent properties. *International Journal of Biological Macromolecules*, **2020**, 164, 1267-1274	7.9	2
20	Characterization of a Recombinant Trehalose Synthase from Arthrobacter chlorophenolicus and its Unique Kinetics Indicating a Substrate Cooperativity. *Applied Biochemistry and Biotechnology*, **2019**, 187, 1255-1271	3.2	2
19	Metabolic Engineering of for Efficient Biosynthesis of Lacto--tetraose Using a Novel ,3-Galactosyltransferase from. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 11342-11349	5.7	2
18	Dictyoglomus turgidum DSM 6724 Glucan Phosphorylase: Characterization and Its Application in Multi-enzyme Cascade Reaction for D-Tagatose Production. *Applied Biochemistry and Biotechnology*, **2021**, 193, 3719-3731	3.2	2
17	Bioactivity of Proteins and Peptides from Peas (Pisum sativum, Vigna unguiculata, and Cicer arietinum L)273-287		2
16	Comprehensive utilization of sucrose resources via chemical and biotechnological processes: A review. *Biotechnology Advances*, **2022**, 60, 107990	17.8	2
15	Engineering Escherichia coli for highly efficient production of lacto-N-triose II from N-acetylglucosamine, the monomer of chitin. *Biotechnology for Biofuels*, **2021**, 14, 198	7.8	1
14	Difructose anhydride III: a 50-year perspective on its production and physiological functions. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-26	11.5	1
13	Molecular Characterization of a Mesophilic Cellobiose 2-Epimerase That Maintains a High Catalytic Efficiency at Low Temperatures. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 8268-8275	5.7	1
12	Occurrence, functional properties, and preparation of 3-fucosyllactose, one of the smallest human milk oligosaccharides.. *Critical Reviews in Food Science and Nutrition*, **2022**, 1-15	11.5	1
11	Structure-based interface engineering methodology in designing a thermostable amylose-forming transglucosylase. *Journal of Biological Chemistry*, **2022**, 102074	5.4	1
10	Characterization of a Novel Mannose Isomerase from Stenotrophomonas rhizophila and Identification of Its Possible Catalytic Residues.. *Molecular Biotechnology*, **2022**, 1	3	0

9	Difructose Anhydrides-Producing Fructotransferase: Characteristics, Catalytic Mechanism, and Applications **2021**, 147-174		0
8	Microbial production, molecular modification, and practical application of l-Asparaginase: A review. *International Journal of Biological Macromolecules*, **2021**, 186, 975-983	7.9	0
7	An overview of D-galactose utilization through microbial fermentation and enzyme-catalyzed conversion. *Applied Microbiology and Biotechnology*, **2021**, 105, 7161-7170	5.7	0
6	Glucansucrases Derived from Lactic Acid Bacteria to Synthesize Multitudinous Glucans **2021**, 251-274		
5	Characteristics of Levansucrase and Its Application for the Preparation of Levan and Levan-Type Oligosaccharides **2021**, 175-198		
4	Recent Advances in Ketose 3-Epimerase and Its Application for D-Allulose Production **2021**, 17-42		
3	Development and Classification of Functional Carbohydrate Processing Enzymes in the Food Industry **2021**, 1-16		
2	Various Enzymes for the Biotechnological Production of D-Allose **2021**, 85-104		
1	Inulosucrase, an Efficient Transfructosylation Tool for the Synthesis of Microbial Inulin **2021**, 199-222		