# Motomitsu Kitaoka

#### List of Publications by Citations

Source: https://exaly.com/author-pdf/2434157/motomitsu-kitaoka-publications-by-citations.pdf

Version: 2024-04-16

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

209 papers

5,999 citations

44 h-index 66 g-index

220 ext. papers

6,712 ext. citations

avg, IF

5.69 L-index

#	Paper	IF	Citations
209	Physiology of consumption of human milk oligosaccharides by infant gut-associated bifidobacteria. Journal of Biological Chemistry, <b>2011</b> , 286, 34583-92	5.4	278
208	Bifidobacterium bifidum lacto-N-biosidase, a critical enzyme for the degradation of human milk oligosaccharides with a type 1 structure. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 3996-4004	4.8	176
207	Novel putative galactose operon involving lacto-N-biose phosphorylase in Bifidobacterium longum. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 3158-62	4.8	169
206	Carbohydrate-Processing Phosphorolytic Enzymes <i>Trends in Glycoscience and Glycotechnology</i> , <b>2002</b> , 14, 35-50	0.1	153
205	Identification of N-acetylhexosamine 1-kinase in the complete lacto-N-biose I/galacto-N-biose metabolic pathway in Bifidobacterium longum. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 6444-	9 <sup>4.8</sup>	149
204	Practical preparation of lacto-N-biose I, a candidate for the bifidus factor in human milk. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2007</b> , 71, 2101-4	2.1	126
203	Recent development of phosphorylases possessing large potential for oligosaccharide synthesis. <i>Current Opinion in Chemical Biology</i> , <b>2013</b> , 17, 301-9	9.7	102
202	Bifidobacterium longum subsp. infantis uses two different Egalactosidases for selectively degrading type-1 and type-2 human milk oligosaccharides. <i>Glycobiology</i> , <b>2012</b> , 22, 361-8	5.8	96
201	Distribution of in vitro fermentation ability of lacto-N-biose I, a major building block of human milk oligosaccharides, in bifidobacterial strains. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 54-9	4.8	95
200	Structural and thermodynamic analyses of solute-binding Protein from Bifidobacterium longum specific for core 1 disaccharide and lacto-N-biose I. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 13165-73	5.4	92
199	Synthesis of highly ordered cellulose II in vitro using cellodextrin phosphorylase. <i>Carbohydrate Research</i> , <b>2009</b> , 344, 2468-73	2.9	91
198	1,2-alpha-l-Fucosynthase: a glycosynthase derived from an inverting alpha-glycosidase with an unusual reaction mechanism. <i>FEBS Letters</i> , <b>2008</b> , 582, 3739-43	3.8	88
197	Cooperation of Egalactosidase and EN-acetylhexosaminidase from bifidobacteria in assimilation of human milk oligosaccharides with type 2 structure. <i>Glycobiology</i> , <b>2010</b> , 20, 1402-9	5.8	87
196	Role of a PA14 domain in determining substrate specificity of a glycoside hydrolase family 3 Eglucosidase from Kluyveromyces marxianus. <i>Biochemical Journal</i> , <b>2010</b> , 431, 39-49	3.8	83
195	Chitobiose phosphorylase from Vibrio proteolyticus, a member of glycosyl transferase family 36, has a clan GH-L-like (alpha/alpha)(6) barrel fold. <i>Structure</i> , <b>2004</b> , 12, 937-47	5.2	83
194	Bifidobacterium bifidum Lacto- N -Biosidase, a Critical Enzyme for the Degradation of Human Milk Oligosaccharides with a Type 1 Structure. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 6414-6414	4.8	78
193	Sharing of human milk oligosaccharides degradants within bifidobacterial communities in faecal cultures supplemented with Bifidobacterium bifidum. <i>Scientific Reports</i> , <b>2018</b> , 8, 13958	4.9	78

### (2009-2004)

192	A family 8 glycoside hydrolase from Bacillus halodurans C-125 (BH2105) is a reducing end xylose-releasing exo-oligoxylanase. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 55097-103	5.4	77	
191	The first glycosynthase derived from an inverting glycoside hydrolase. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 1426-31	5.4	76	
190	EN-acetylgalactosaminidase from infant-associated bifidobacteria belonging to novel glycoside hydrolase family 129 is implicated in alternative mucin degradation pathway. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 693-700	5.4	73	•
189	Bifidobacterial enzymes involved in the metabolism of human milk oligosaccharides. <i>Advances in Nutrition</i> , <b>2012</b> , 3, 422S-9S	10	70	
188	Evolutionary adaptation in fucosyllactose uptake systems supports bifidobacteria-infant symbiosis. <i>Science Advances</i> , <b>2019</b> , 5, eaaw7696	14.3	68	
187	1,3-1,4-L-fucosynthase that specifically introduces Lewis a/x antigens into type-1/2 chains. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 16709-19	5.4	65	
186	A chemoenzymatic route to N-acetylglucosamine-1-phosphate analogues: substrate specificity investigations of N-acetylhexosamine 1-kinase. <i>Chemical Communications</i> , <b>2009</b> , 2944-6	5.8	65	
185	Structural dissection of the reaction mechanism of cellobiose phosphorylase. <i>Biochemical Journal</i> , <b>2006</b> , 398, 37-43	3.8	64	
184	Molecular Insight into Evolution of Symbiosis between Breast-Fed Infants and a Member of the Human Gut Microbiome Bifidobacterium longum. <i>Cell Chemical Biology</i> , <b>2017</b> , 24, 515-524.e5	8.2	62	
183	One-step random mutagenesis by error-prone rolling circle amplification. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, e145	20.1	62	
182	Lacto-N-biosidase encoded by a novel gene of Bifidobacterium longum subspecies longum shows unique substrate specificity and requires a designated chaperone for its active expression. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 25194-25206	5.4	61	
181	Discovery of £1,4-D-mannosyl-N-acetyl-D-glucosamine phosphorylase involved in the metabolism of N-glycans. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 27366-27374	5.4	57	
180	One-pot enzymatic production of beta-D-galactopyranosyl-(1>3)-2-acetamido-2-deoxy-D-galactose (galacto-N-biose) from sucrose and 2-acetamido-2-deoxy-D-galactose (N-acetylgalactosamine). <i>Carbohydrate Research</i> , <b>2009</b> , 344, 2573	2.9 <b>3-6</b>	57	
179	Transglycosylation of naringin by Bacillus stearothermophilusMaltogenic amylase to give glycosylated naringin. <i>Journal of Agricultural and Food Chemistry</i> , <b>1999</b> , 47, 3669-74	5.7	54	
178	Adsorption of Bisphenol A by Cross-Linked Ecyclodextrin Polymer. <i>Journal of Inclusion Phenomena</i> and Macrocyclic Chemistry, <b>2002</b> , 44, 429-431		53	
177	Structural basis for the specificity of the reducing end xylose-releasing exo-oligoxylanase from Bacillus halodurans C-125. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 17180-6	5.4	53	
176	Characterization of a hyperthermostable glycogen phosphorylase from Aquifex aeolicus expressed in Escherichia coli. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2003</b> , 22, 173-180		50	
175	Prebiotic effect of lacto-N-biose I on bifidobacterial growth. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2009</b> , 73, 1175-9	2.1	49	

174	Varied Pathways of Infant Gut-Associated to Assimilate Human Milk Oligosaccharides: Prevalence of the Gene Set and Its Correlation with Bifidobacteria-Rich Microbiota Formation. <i>Nutrients</i> , <b>2019</b> , 12,	6.7	49
173	Alternative strategy for converting an inverting glycoside hydrolase into a glycosynthase. <i>Glycobiology</i> , <b>2008</b> , 18, 325-30	5.8	48
172	Characterization of a thermostable family 10 endo-xylanase (XynB) from Thermotoga maritima that cleaves p-nitrophenyl-Ed-xyloside. <i>Journal of Bioscience and Bioengineering</i> , <b>2001</b> , 92, 423-428	3.3	48
171	Hydrolysis of beta-1,3/1,6-glucan by glycoside hydrolase family 16 endo-1,3(4)-beta-glucanase from the basidiomycete Phanerochaete chrysosporium. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 71, 898-906	5.7	47
170	Kinetics of substrate transglycosylation by glycoside hydrolase family 3 glucan (1>3)-beta-glucosidase from the white-rot fungus Phanerochaete chrysosporium. <i>Carbohydrate Research</i> , <b>2004</b> , 339, 2851-7	2.9	47
169	Fusion of family 2b carbohydrate-binding module increases the catalytic activity of a xylanase from Thermotoga maritima to soluble xylan. <i>FEBS Letters</i> , <b>2003</b> , 549, 147-51	3.8	47
168	Diversity and similarity of microbial communities in petroleum crude oils produced in Asia. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2008</b> , 72, 2831-9	2.1	44
167	A cycloamylose-forming hyperthermostable 4-Eglucanotransferase of Aquifex aeolicus expressed in Escherichia coli. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2003</b> , 22, 45-53		44
166	Synthetic reaction of Cellvibrio gilvus cellobiose phosphorylase. <i>Journal of Biochemistry</i> , <b>1992</b> , 112, 40-	-43.1	44
165	Reaction mechanism of chitobiose phosphorylase from Vibrio proteolyticus: identification of family 36 glycosyltransferase in Vibrio. <i>Biochemical Journal</i> , <b>2004</b> , 377, 225-32	3.8	42
164	Phosphorolytic Reaction of Cellvibrio gilvus Cellobiose Phosphorylase. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>1992</b> , 56, 652-5	2.1	42
163	Kinetic studies of a recombinant cellobiose phosphorylase (CBP) of the Clostridium thermocellum YM4 strain expressed in Escherichia coli. <i>Journal of Biochemistry</i> , <b>2002</b> , 132, 197-203	3.1	41
162	Crystal structure of glycoside hydrolase family 55 {beta}-1,3-glucanase from the basidiomycete Phanerochaete chrysosporium. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 10100-9	5.4	40
161	Crystallographic and mutational analyses of substrate recognition of endo-alpha-N-acetylgalactosaminidase from Bifidobacterium longum. <i>Journal of Biochemistry</i> , <b>2009</b> , 146, 389-98	3.1	40
160	RAISE: a simple and novel method of generating random insertion and deletion mutations. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, e30	20.1	39
159	Purification and properties of laminaribiose phosphorylase (EC 2.4 1.31) from Euglena gracilis Z. <i>Archives of Biochemistry and Biophysics</i> , <b>1993</b> , 304, 508-14	4.1	39
158	Identification of the putative proton donor residue of lacto-N-biose phosphorylase (EC 2.4.1.211). <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2007</b> , 71, 1587-91	2.1	38
157	Fusion of family VI cellulose binding domains to Bacillus halodurans xylanase increases its catalytic activity and substrate-binding capacity to insoluble xylan. <i>Journal of Molecular Catalysis B:</i>		38

# (2009-2012)

Discovery of nigerose phosphorylase from Clostridium phytofermentans. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 1513-22	5.7	37	
The crystal structure of galacto-N-biose/lacto-N-biose I phosphorylase: a large deformation of a TIM barrel scaffold. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 7273-83	5.4	37	
General function of N-terminal propeptide on assisting protein folding and inhibiting catalytic activity based on observations with a chimeric thermolysin-like protease. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 301, 1093-8	3.4	37	
Enzymatic synthesis of a library of beta-(1>4) hetero- D-glucose and D-xylose-based oligosaccharides employing cellodextrin phosphorylase. <i>Carbohydrate Research</i> , <b>2003</b> , 338, 1981-90	2.9	36	
Characterization of a cellobiose phosphorylase from a hyperthermophilic eubacterium, Thermotoga maritima MSB8. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2002</b> , 66, 2578-86	2.1	36	
Characterization of three beta-galactoside phosphorylases from Clostridium phytofermentans: discovery of d-galactosyl-beta1->4-l-rhamnose phosphorylase. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 19220-7	5.4	35	
Characterization of glycosynthase mutants derived from glycoside hydrolase family 10 xylanases. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2006</b> , 70, 1210-7	2.1	35	
Substrate specificity of N-acetylhexosamine kinase towards N-acetylgalactosamine derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2009</b> , 19, 5433-5	2.9	34	
Characterization of a bacterial laminaribiose phosphorylase. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2012</b> , 76, 343-8	2.1	33	
Practical preparation of D-galactosyl-beta1>4-L-rhamnose employing the combined action of phosphorylases. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2010</b> , 74, 1652-5	2.1	33	
Purification, crystallization and preliminary X-ray analysis of the galacto-N-biose-/lacto-N-biose I-binding protein (GL-BP) of the ABC transporter from Bifidobacterium longum JCM1217. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2007</b> , 63, 751-3		32	
Diversity of phosphorylases in glycoside hydrolase families. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 8377-90	5.7	31	
Distinct substrate specificities of three glycoside hydrolase family 42 Egalactosidases from Bifidobacterium longum subsp. infantis ATCC 15697. <i>Glycobiology</i> , <b>2014</b> , 24, 208-16	5.8	31	
1,2-£Oligoglucan phosphorylase from Listeria innocua. <i>PLoS ONE</i> , <b>2014</b> , 9, e92353	3.7	31	
Crystal structure of an Exo-1,5-{alpha}-L-arabinofuranosidase from Streptomyces avermitilis provides insights into the mechanism of substrate discrimination between exo- and endo-type enzymes in glycoside hydrolase family 43. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 34134-43	5.4	31	
chizymes in giyeoside nydrotase rannity 45. Southat of blotogical chemistry, 2010, 205, 54154 45			-
Error-prone rolling circle amplification: the simplest random mutagenesis protocol. <i>Nature Protocols</i> , <b>2006</b> , 1, 2493-7	18.8	31	
Error-prone rolling circle amplification: the simplest random mutagenesis protocol. <i>Nature</i>	18.8	31	
	The crystal structure of galacto-N-biose/lacto-N-biose I phosphorylase: a large deformation of a TIM barrel scaffold. <i>Journal of Biological Chemistry</i> , 2009, 284, 7273-83  General function of N-terminal propeptide on assisting protein folding and inhibiting catalytic activity based on observations with a chimeric thermolysin-like protease. <i>Biochemical and Biophysical Research Communications</i> , 2003, 301, 1093-8  Enzymatic synthesis of a library of beta-(1->4) hetero- D-glucose and D-xylose-based oligosaccharides employing cellodextrin phosphorylase. <i>Carbohydrate Research</i> , 2003, 338, 1981-90  Characterization of a cellobiose phosphorylase from a hyperthermophilic eubacterium, Thermotoga maritima MSB8. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 2578-86  Characterization of three beta-galactoside phosphorylases from Clostridium phytofermentans: discovery of d-galactosyl-beta1->4-l-rhamnose phosphorylase. <i>Journal of Biological Chemistry</i> , 2009, 284, 19220-7  Characterization of glycosynthase mutants derived from glycoside hydrolase family 10 xylanases. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006, 70, 1210-7  Substrate specificity of N-acetylhexosamine kinase towards N-acetylgalactosamine derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 5433-5  Characterization of a bacterial laminaribiose phosphorylase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 343-8  Practical preparation of D-galactosyl-beta1->4-L-rhamnose employing the combined action of phosphorylases. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 1652-5  Purification, crystallization and preliminary X-ray analysis of the galacto-N-biose-/lacto-N-biose-lbinding protein (GL-BP) of the ABC transporter from Bifidobacterium longum JCM1217. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 751-3  Diversity of phosphorylases in glycoside hydrolase family 42 Balactosidases from Bifidobacterium longum subsp. infantis ATCC 15697. <i>Glycobiology</i> , 2014, 24, 208-16	The crystal structure of galacto-N-biose/lacto-N-biose I phosphorylase: a large deformation of a TIM barrel scaffold. Journal of Biological Chemistry, 2009, 284, 7273-83  General function of N-terminal propeptide on assisting protein folding and inhibiting catalytic activity based on observations with a chimeric thermolysin-like protease. Biochemical and Biophysical Research Communications, 2003, 301, 1093-8  Enzymatic synthesis of a library of beta-(1->4) hetero-D-glucose and D-xylose-based oligosaccharides employing cellodextrin phosphorylase. Carbohydrate Research, 2003, 338, 1981-90  Characterization of a cellobiose phosphorylase from a hyperthermophilic eubacterium, Thermotoga maritima MSB8. Bioscience, Biotechnology and Biochemistry, 2002, 66, 2578-86  Characterization of three beta-galactoside phosphorylases from Clostridium phytofermentans: discovery of d-galactosyl-beta1->4-l-rhamnose phosphorylase. Journal of Biological Chemistry, 2009, 2484, 19220-7  Characterization of glycosynthase mutants derived from glycoside hydrolase family 10 xylanases. Bioscience, Biotechnology and Biochemistry, 2006, 70, 1210-7  Substrate specificity of N-acetylhexosamine kinase towards N-acetylgalactosamine derivatives. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 5433-5  Characterization of a bacterial laminaribiose phosphorylase. Bioscience, Biotechnology and Biochemistry, 2012, 76, 343-8  Practical preparation of D-galactosyl-beta1->4-L-rhamnose employing the combined action of phosphorylases. Bioscience, Biotechnology and Biochemistry, 2012, 76, 343-8  Practical preparation of D-galactosyl-beta1->4-L-rhamnose employing the combined action of phosphorylases. Bioscience, Biotechnology and Biochemistry, 2010, 74, 1652-5  Purification, crystallization and preliminary X-ray analysis of the galacto-N-biose-/lacto-N-biose-l-binding protein (GL-BP) of the ABC transporter from Bifidobacterium longum JCM1217. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 751-3  Diversity of phosphorylase	Biotechnology, 2012, 93, 1513-22  The crystal structure of galacto-N-biose/lacto-N-biose I phosphorylase: a large deformation of a TIM barrel scaffold. Journal of Biological Chemistry, 2009, 284, 7273-83  General function of N-terminal propeptide on assisting protein folding and inhibiting catalytic activity based on observations with a chimeric thermolysin-like protease. Biochemical and Biophysical Research Communications, 2003, 301, 1093-8  Enzymatic synthesis of a library of beta-(1->4) hetero-D-glucose and D-xylose-based oligosaccharides employing cellodextrin phosphorylase. Carbohydrate Research, 2003, 338, 1981-90  Characterization of a cellobiose phosphorylase from a hyperthermophilic eubacterium, Thermotoga maritima MSBB. Bioscience, Biotechnology and Biochemistry, 2002, 66, 2578-86  Characterization of three beta-galactoside phosphorylases from Clostridium phytoferementans: discovery of d-galactosyl-beta1->4-I-rhamnose phosphorylase. Journal of Biological Chemistry, 2009, 284, 19220-7  Characterization of glycosynthase mutants derived from glycoside hydrolase family 10 xylanases. Bioscience, Biotechnology and Biochemistry, 2006, 70, 1210-7  Substrate specificity of N-acetylhexosamine kinase towards N-acetylgalactosamine derivatives. Bioarganic and Medicinal Chemistry Letters, 2009, 19, 5433-5  Characterization of a bacterial laminaribiose phosphorylase. Bioscience, Biotechnology and Biochemistry, 2010, 74, 1652-5  Purification, crystallization and preliminary X-ray analysis of the galacto-N-biose-lacto-N-biose I-binding protein (GL-BP) of the ABC transporter from Bifidobacterium longum JCM1217. Acta Crystallographic GS-ESCHORE, Structural Biology Communications, 2007, 63, 751-3  Diversity of phosphorylases in glycoside hydrolase families. Applied Microbiology and Biotechnology, 2015, 99, 8377-90  Distinct substrate specificities of three glycoside hydrolase family 42 Egalactosidases from Bifidobacterium longum subsp. infantis ATCC 15697. Glycobiology, 2014, 24, 208-16  1,2-EDligoglucan phosphorylase Fr

138	2-O-D-glucosylglycerol phosphorylase from Bacillus selenitireducens MLS10 possessing hydrolytic activity on D-glucose 1-phosphate. <i>PLoS ONE</i> , <b>2014</b> , 9, e86548	3.7	28
137	Introduction of H-antigens into oligosaccharides and sugar chains of glycoproteins using highly efficient 1,2-fl-fucosynthase. <i>Glycobiology</i> , <b>2016</b> , 26, 1235-1247	5.8	27
136	Large-scale Preparation of 1,2-EGlucan Using 1,2-EOligoglucan Phosphorylase. <i>Journal of Applied Glycoscience (1999)</i> , <b>2015</b> , 62, 47-52	1	27
135	Identification of galacto-N-biose phosphorylase from Clostridium perfringens ATCC13124. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 78, 465-71	5.7	27
134	Discovery of two 日,2-mannoside phosphorylases showing different chain-length specificities from Thermoanaerobacter sp. X-514. <i>PLoS ONE</i> , <b>2014</b> , 9, e114882	3.7	27
133	Functional and Structural Analysis of a EGlucosidase Involved in E1,2-Glucan Metabolism in Listeria innocua. <i>PLoS ONE</i> , <b>2016</b> , 11, e0148870	3.7	27
132	A 🛮 -6/🗓 -3 galactosidase from Bifidobacterium animalis subsp. lactis Bl-04 gives insight into sub-specificities of Egalactoside catabolism within Bifidobacterium. <i>Molecular Microbiology</i> , <b>2014</b> , 94, 1024	4.1	26
131	In vitro comparative evaluation of the impact of lacto-N-biose I, a major building block of human milk oligosaccharides, on the fecal microbiota of infants. <i>Anaerobe</i> , <b>2013</b> , 19, 50-7	2.8	26
130	Conversion of Sucrose into Cellobiose Using Sucrose Phosphorylase, Xylose Isomerase and Cellobiose Phosphorylase <i>Journal of the Japanese Society of Starch Science</i> , <b>1992</b> , 39, 281-283		26
129	Discovery of cellobionic acid phosphorylase in cellulolytic bacteria and fungi. <i>FEBS Letters</i> , <b>2013</b> , 587, 3556-61	3.8	25
128	Characterization of a laminaribiose phosphorylase from Acholeplasma laidlawii PG-8A and production of 1,3-ED-glucosyl disaccharides. <i>Carbohydrate Research</i> , <b>2012</b> , 361, 49-54	2.9	25
127	A cellobiose phosphorylase from Cellvibrio gilvus recognizes only the beta-D-form of 5a-carba-glucopyranose. <i>Carbohydrate Research</i> , <b>1993</b> , 247, 355-9	2.9	25
126	Characterization of a thermostable family 10 endo-xylanase (XynB) from Thermotoga maritima that cleaves p-nitrophenyl-beta-D-xyloside. <i>Journal of Bioscience and Bioengineering</i> , <b>2001</b> , 92, 423-8	3.3	25
125	Facile enzymatic synthesis of sugar 1-phosphates as substrates for phosphorylases using anomeric kinases. <i>Carbohydrate Research</i> , <b>2015</b> , 401, 1-4	2.9	24
124	A glycosynthase derived from an inverting GH19 chitinase from the moss Bryum coronatum. <i>Biochemical Journal</i> , <b>2012</b> , 444, 437-43	3.8	24
123	3-O-ED-glucopyranosyl-L-rhamnose phosphorylase from Clostridium phytofermentans. <i>Carbohydrate Research</i> , <b>2012</b> , 350, 94-7	2.9	24
122	Kinetic Studies onp-Nitrophenyl-cellobioside Hydrolyzing Xylanase fromCellvibrio gilvus. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>1993</b> , 57, 1987-1989	2.1	24
121	Identification of lacto-N-Biose I phosphorylase from Vibrio vulnificus CMCP6. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 6333-7	4.8	23

120	Use of a Microtiter Plate Screening Method for Obtaining Leuconostoc mesenteroides Mutants Constitutive for Glucansucrase. <i>Enzyme and Microbial Technology</i> , <b>1998</b> , 22, 527-531	3.8	22
119	A reducing-end-acting chitinase from Vibrio proteolyticus belonging to glycoside hydrolase family 19. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 78, 627-34	5.7	22
118	Computational analyses of the conformational itinerary along the reaction pathway of GH94 cellobiose phosphorylase. <i>Carbohydrate Research</i> , <b>2008</b> , 343, 1023-33	2.9	21
117	A thermostable non-xylanolytic alpha-glucuronidase of Thermotoga maritima MSB8. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2003</b> , 67, 2359-64	2.1	21
116	Kinetic studies on the hydrolysis of N-acetylated and N-deacetylated derivatives of 4-methylumbelliferyl chitobioside by the family 18 chitinases ChiA and ChiB from Serratia marcescens. <i>Journal of Biochemistry</i> , <b>2003</b> , 133, 253-8	3.1	21
115	Characterization of a thermophilic 4-O-ED-mannosyl-D-glucose phosphorylase from Rhodothermus marinus. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2014</b> , 78, 263-70	2.1	20
114	Structural explanation for the acquisition of glycosynthase activity. <i>Journal of Biochemistry</i> , <b>2010</b> , 147, 237-44	3.1	20
113	Thermal decomposition of beta-D-galactopyranosyl-(1>3)-2-acetamido-2-deoxy-D-hexopyranoses under neutral conditions. <i>Carbohydrate Research</i> , <b>2010</b> , 345, 1901-8	2.9	20
112	The role of the N-terminal propeptide of the pro-aminopeptidase processing protease: refolding, processing, and enzyme inhibition. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 296, 78-84	3.4	20
111	Conversion of Sucrose into Laminaribiose Using Sucrose Phosphorylase, Xylose Isomerase and Laminaribiose Phosphorylase <i>Journal of the Japanese Society of Starch Science</i> , <b>1993</b> , 40, 311-314		20
110	Facile preparation of highly crystalline lamellae of (1 -> 3)-ED-glucan using an extract of Euglena gracilis. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 64, 415-9	7.9	19
109	One Pot Enzymatic Production of Nigerose from Common Sugar Resources Employing Nigerose Phosphorylase. <i>Journal of Applied Glycoscience (1999)</i> , <b>2014</b> , 61, 75-80	1	19
108	Characterization of raffinose synthase from rice (Oryza sativa L. var. Nipponbare). <i>Biotechnology Letters</i> , <b>2007</b> , 29, 635-40	3	19
107	Enhancement of transglycosylation activity by construction of chimeras between mesophilic and thermophilic beta-glucosidase. <i>Archives of Biochemistry and Biophysics</i> , <b>2002</b> , 407, 125-34	4.1	19
106	Evidence that the putative alpha-glucosidase of Thermotoga maritima MSB8 is a pNP alpha-D-glucuronopyranoside hydrolyzing alpha-glucuronidase. <i>FEBS Letters</i> , <b>2002</b> , 517, 159-62	3.8	19
105	Large-scale preparation of highly purified dextransucrase from a high-producing constitutive mutant of Leuconostoc mesenteroides B-512FMC. <i>Enzyme and Microbial Technology</i> , <b>1998</b> , 23, 386-391	3.8	18
104	Production of glucosyl-xylose using Cellvibrio gilvus cells and its properties. <i>Applied Microbiology and Biotechnology</i> , <b>1990</b> , 34, 178-182	5.7	18
103	Crystal Structure and Substrate Recognition of Cellobionic Acid Phosphorylase, Which Plays a Key Role in Oxidative Cellulose Degradation by Microbes. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 18281-	9 <del>2</del> ·4	17

102	Kinetic evidence related to substrate-assisted catalysis of family 18 chitinases. <i>FEBS Letters</i> , <b>2004</b> , 567, 307-10	3.8	17
101	Characterization and crystal structure determination of £1,2-mannobiose phosphorylase from Listeria innocua. <i>FEBS Letters</i> , <b>2015</b> , 589, 3816-21	3.8	16
100	Functional reassignment of Cellvibrio vulgaris EpiA to cellobiose 2-epimerase and an evaluation of the biochemical functions of the 4-O-ID-mannosyl-D-glucose phosphorylase-like protein, UnkA. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2015</b> , 79, 969-77	2.1	16
99	Characterization of beta-1,3-galactosyl-N-acetylhexosamine phosphorylase from Propionibacterium acnes. <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 83, 109-15	5.7	16
98	Identification of Bacillus selenitireducens MLS10 maltose phosphorylase possessing synthetic ability for branched ED-glucosyl trisaccharides. <i>Carbohydrate Research</i> , <b>2012</b> , 360, 25-30	2.9	15
97	A New Method of Carbohydrate Synthesis in Both Solution and Solid Phases Using a Special Hydroxy Protecting Group. <i>European Journal of Organic Chemistry</i> , <b>2005</b> , 2005, 5313-5329	3.2	15
96	Syntheses of 4-methylumbelliferyl-beta-D-xylobioside and 5-bromo-3-indolyl-beta-D-xylobioside for sensitive detection of xylanase activity on agar plates. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2000</b> , 64, 741-5	2.1	15
95	Colorimetric quantification of alpha-D-galactose 1-phosphate. <i>Analytical Biochemistry</i> , <b>2007</b> , 371, 259-6	513.1	14
94	A synergistic reaction mechanism of a cycloalternan-forming enzyme and a D-glucosyltransferase for the production of cycloalternan in Bacillus sp. NRRL B-21195. <i>Carbohydrate Research</i> , <b>2003</b> , 338, 22	13-20	14
93	Mechanism of the action of Leuconostoc mesenteroides B-512FMC dextransucrase: kinetics of the transfer of d-glucose to maltose and the effects of enzyme and substrate concentrations. <i>Carbohydrate Research</i> , <b>1999</b> , 320, 183-191	2.9	14
92	Novel substrate specificities of two lacto-N-biosidases towards Elinked galacto-N-biose-containing oligosaccharides of globo H, Gb5, and GA1. <i>Carbohydrate Research</i> , <b>2015</b> , 408, 18-24	2.9	13
91	Directed evolution to enhance thermostability of galacto-N-biose/lacto-N-biose I phosphorylase. <i>Protein Engineering, Design and Selection</i> , <b>2013</b> , 26, 755-61	1.9	13
90	A kinetic study on pH-activity relationship of XynA from alkaliphilic Bacillus halodurans C-125 using aryl-xylobiosides. <i>Journal of Bioscience and Bioengineering</i> , <b>2002</b> , 93, 428-30	3.3	13
89	Identification, functional characterization, and crystal structure determination of bacterial levoglucosan dehydrogenase. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 17375-17386	5.4	13
88	Characterization of Two E1,3-Glucoside Phosphorylases from Clostridium phytofermentans. Journal of Applied Glycoscience (1999), <b>2014</b> , 61, 59-66	1	12
87	Structural basis for reversible phosphorolysis and hydrolysis reactions of 2-O-Eglucosylglycerol phosphorylase. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 18067-75	5.4	12
86	An investigation of the pH-activity relationships of Cex, a family 10 xylanase from Cellulomonas fimi: xylan inhibition and the influence of nitro-substituted aryl-Ed-xylobiosides on xylanase activity. <i>Journal of Bioscience and Bioengineering</i> , <b>2002</b> , 93, 313-317	3.3	12
85	Synthesis of laminarioligosaccharides using crude extract of Euglena gracilis z cells <i>Agricultural and Biological Chemistry</i> , <b>1991</b> , 55, 1431-1432		12

# (2011-2016)

84	The crystal structure of an inverting glycoside hydrolase family 9 exo-ED-glucosaminidase and the design of glycosynthase. <i>Biochemical Journal</i> , <b>2016</b> , 473, 463-72	3.8	12
83	Open-close structural change upon ligand binding and two magnesium ions required for the catalysis of N-acetylhexosamine 1-kinase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2015</b> , 1854, 333-40	4	11
82	Construction and characterization of chimeric enzymes of the Agrobacterium tumefaciens and Thermotoga maritima Eglucosidases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2001</b> , 16, 43-51		11
81	Conversion of inverting glycoside hydrolases into catalysts for synthesizing glycosides employing a glycosynthase strategy. <i>Trends in Glycoscience and Glycotechnology</i> , <b>2009</b> , 21, 23-39	0.1	11
80	Characterization of the Cytosolic EN-Acetylglucosaminidase from Bifidobacterium longum subsp. longum. <i>Journal of Applied Glycoscience (1999)</i> , <b>2013</b> , 60, 141-146	1	11
79	Structural basis for broad substrate specificity of UDP-glucose 4-epimerase in the human milk oligosaccharide catabolic pathway of Bifidobacterium longum. <i>Scientific Reports</i> , <b>2019</b> , 9, 11081	4.9	10
78	Characterization of d-galactosyl-🛭->4-l-rhamnose phosphorylase from Opitutus terrae. <i>Enzyme and Microbial Technology</i> , <b>2010</b> , 46, 315-319	3.8	10
77	Crystallization and preliminary X-ray analysis of cellobiose phosphorylase from Cellvibrio gilvus. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2004</b> , 60, 1877-8		10
76	In vitro stepwise autoprocessing of the proform of pro-aminopeptidase processing protease from Aeromonas caviae T-64. <i>BBA - Proteins and Proteomics</i> , <b>2002</b> , 1596, 16-27		10
75	Colorimetric quantification of cellobiose employing cellobiose phosphorylase. <i>Analytical Biochemistry</i> , <b>2001</b> , 292, 163-6	3.1	10
74	Improving enzyme characteristics by gene shuffling; application to Eglucosidase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2001</b> , 11, 811-816		10
73	A simple method of cellulase immobilization on a modified silica support. <i>Journal of Bioscience and Bioengineering</i> , <b>1989</b> , 67, 182-185		10
72	Structural insights into the difference in substrate recognition of two mannoside phosphorylases from two GH130 subfamilies. <i>FEBS Letters</i> , <b>2016</b> , 590, 828-37	3.8	10
<b></b>	A		
71	An inverting E1,2-mannosidase belonging to glycoside hydrolase family 130 from Dyadobacter fermentans. <i>FEBS Letters</i> , <b>2015</b> , 589, 3604-10	3.8	9
70			9
	Fermentans. <i>FEBS Letters</i> , <b>2015</b> , 589, 3604-10  Purification, crystallization and preliminary X-ray analysis of beta-glucosidase from Kluyveromyces		
70	Purification, crystallization and preliminary X-ray analysis of beta-glucosidase from Kluyveromyces marxianus NBRC1777. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2009</b> , 65, 1 Effect of growth temperature, induction, and molecular chaperones on the solubilization of over-expressed cellobiose phosphorylase from Cellvibrio Gilvus under in vivo conditions.	190-2	9

66	Characterization of Bacillus halodurans alpha-galactosidase Mel4A encoded by the mel4A gene (BH2228). <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2008</b> , 72, 2459-62	2.1	8
65	Employing Chimeric Xylanases to Identify Regions of an Alkaline Xylanase Participating in Enzyme Activity at Basic pH <i>Journal of Bioscience and Bioengineering</i> , <b>2002</b> , 94, 395-400	3.3	8
64	Galacto-N-biose is neuroprotective against glutamate-induced excitotoxicity in vitro. <i>European Journal of Pharmacology</i> , <b>2016</b> , 791, 711-717	5.3	7
63	Identification of amino acid residues that determine the substrate preference of 1,3-Egalactosyl-N-acetylhexosamine phosphorylase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2012</b> , 74, 97-102		7
62	Potassium ion-dependent trehalose phosphorylase from halophilic Bacillus selenitireducens MLS10. <i>FEBS Letters</i> , <b>2013</b> , 587, 3382-6	3.8	7
61	Interactions between Glycoside Hydrolase Family 94 Cellobiose Phosphorylase and Glucosidase Inhibitors. <i>Journal of Applied Glycoscience (1999)</i> , <b>2011</b> , 58, 91-97	1	7
60	Enzymatic hydrolysis of 1,3-1,4-beta-glucosyl oligosaccharides by 1,3-1,4-beta-glucanase from Synechocystis PCC6803: a comparison with assays using polymer and chromophoric oligosaccharide substrates. <i>Archives of Biochemistry and Biophysics</i> , <b>2008</b> , 478, 187-94	4.1	7
59	Reaction on D-glucal by an inverting phosphorylase to synthesize derivatives of 2-deoxy-beta-D-arabino-hexopyranosyl-(1>4)-D-glucose (2II-deoxycellobiose). <i>Carbohydrate Research</i> , <b>2006</b> , 341, 545-9	2.9	7
58	A new oligosaccharide synthesis using special hydroxy protecting group. <i>Tetrahedron Letters</i> , <b>2004</b> , 45, 2759-2762	2	7
57	Purification and characterization of an intracellular cycloalternan-degrading enzyme from Bacillus sp. NRRL B-21195. <i>Carbohydrate Research</i> , <b>2004</b> , 339, 1179-84	2.9	7
56	Crystallization and preliminary X-ray analysis of reducing-end xylose-releasing exo-oligoxylanase from Bacillus halodurans C-125. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2005</b> , 61, 291-2		7
55	Structure of a bacterial glycoside hydrolase family 63 enzyme in complex with its glycosynthase product, and insights into the substrate specificity. <i>FEBS Journal</i> , <b>2013</b> , 280, 4560-71	5.7	7
54	An investigation of the pH-activity relationships of Cex, a family 10 xylanase from Cellulomonas fimi: xylan inhibition and the influence of nitro-substituted aryl-beta-D-xylobiosides on xylanase activity. <i>Journal of Bioscience and Bioengineering</i> , <b>2002</b> , 93, 313-7	3.3	7
53	Discovery of El-arabinopyranosidases from human gut microbiome expands the diversity within glycoside hydrolase family 42. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 21092-21101	5.4	6
52	Synthesis of 3-Keto-levoglucosan Using Pyranose Oxidase and Its Spontaneous Decomposition via Elimination. <i>Journal of Applied Glycoscience (1999)</i> , <b>2017</b> , 64, 99-107	1	6
51	A glycosynthase derived from an inverting chitinase with an extended binding cleft. <i>Journal of Biochemistry</i> , <b>2016</b> , 160, 93-100	3.1	6
50	Purification and Properties of a Xylanase from Cellvibrio gilvus That Hydrolyzes p-Nitrophenyl Cellooligosaccharides <i>Agricultural and Biological Chemistry</i> , <b>1991</b> , 55, 1959-1967		6
49	Analyses of Bifidobacterial Glycosidases Involved in the Metabolism of Oligosaccharides. <i>Bioscience and Microflora</i> , <b>2010</b> , 29, 23-30		6

### (2004-2013)

48	Colorimetric Quantification of ED-Mannose 1-Phosphate. <i>Journal of Applied Glycoscience (1999)</i> , <b>2013</b> , 60, 137-139	1	6
47	Identification of difructose dianhydride I synthase/hydrolase from an oral bacterium establishes a novel glycoside hydrolase family. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101324	5.4	6
46	Expression and Characterization of Recombinant Sucrose Phosphorylase. <i>Protein Journal</i> , <b>2018</b> , 37, 93-	1909	5
45	Novel PCR-mediated mutagenesis employing DNA containing a natural abasic site as a template and translesional Taq DNA polymerase. <i>Journal of Biotechnology</i> , <b>2005</b> , 116, 227-32	3.7	5
44	The role of conserved arginine residue in loop 4 of glycoside hydrolase family 10 xylanases. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2005</b> , 69, 904-10	2.1	5
43	Surface structural analysis of selectively 13C-labeled cellulose II by solid-state NMR spectroscopy. <i>Cellulose</i> , <b>2020</b> , 27, 1899-1907	5.5	5
42	Mutational Analysis of Fungal Family 11 Xylanases on pH Optimum Determination. <i>Journal of Applied Glycoscience (1999)</i> , <b>2011</b> , 58, 107-114	1	4
41	Molecular anatomy of the alkaliphilic xylanase from Bacillus halodurans C-125. <i>Journal of Biochemistry</i> , <b>2007</b> , 141, 709-17	3.1	4
40	Characterization of Cellobiose Phosphorylase and Cellodextrin Phosphorylase <i>Journal of Applied Glycoscience (1999)</i> , <b>2002</b> , 49, 221-227	1	4
39	Employing chimeric xylanases to identify regions of an alkaline xylanase participating in enzyme activity at basic pH. <i>Journal of Bioscience and Bioengineering</i> , <b>2002</b> , 94, 395-400	3.3	4
38	Substrate specificity of the N,6-O-diacetylmuramidase from Streptomyces globisporus. <i>Journal of Bioscience and Bioengineering</i> , <b>2003</b> , 95, 313-6	3.3	4
37	2-Acetamido-2-de-oxy-3-O-⊞-galactopyranosyl-d-glucose dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 65, o1781-2		4
36	Diversification of a fucosyllactose transporter within the genus. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , AEM0143721	4.8	4
35	Random insertional-deletional strand exchange mutagenesis (RAISE): a simple method for generating random insertion and deletion mutations. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1179, 151-8	1.4	4
34	Error-prone rolling circle amplification greatly simplifies random mutagenesis. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1179, 23-9	1.4	4
33	Epimerization and Decomposition of Kojibiose and Sophorose by Heat Treatment under Neutral pH Conditions. <i>Journal of Applied Glycoscience (1999)</i> , <b>2019</b> , 66, 1-9	1	4
32	Next-generation prebiotic promotes selective growth of bifidobacteria, suppressing. <i>Gut Microbes</i> , <b>2021</b> , 13, 1973835	8.8	4
31	Crystallization and preliminary X-ray analysis of xylanase B from Clostridium stercorarium. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2004</b> , 60, 342-3		3

30	Alkoxycarbonyl elimination of 3-O-substituted glucose and fructose by heat treatment under neutral pH. <i>Carbohydrate Research</i> , <b>2020</b> , 496, 108129	2.9	3
29	Conversion of levoglucosan into glucose by the coordination of four enzymes through oxidation, elimination, hydration, and reduction. <i>Scientific Reports</i> , <b>2020</b> , 10, 20066	4.9	3
28	Three-dimensional alignment of cellulose II microcrystals under a strong magnetic field. <i>Cellulose</i> , <b>2021</b> , 28, 6757-6765	5.5	3
27	Enzymatic Synthesis of 1,5-Anhydro-4	1	2
26	??????????????????????????????????????	Ο	2
25	Phosphorylases in the Production of Oligosaccharides. ACS Symposium Series, 2007, 195-206	0.4	2
24	Synthesis of Laminarioligosaccharides Using Crude Extract of Euglena gracilisz Cells. <i>Agricultural and Biological Chemistry</i> , <b>1991</b> , 55, 1431-1432		2
23	Conversion of an Inverting Glycoside Hydrolase into Glycosynthase. <i>Journal of Applied Glycoscience</i> (1999), <b>2009</b> , 56, 119-125	1	2
22	Enzymatic Production of Cellobiose from Starch and Its Reduction to Cellobiitol. <i>Journal of Applied Glycoscience (1999)</i> , <b>2010</b> , 57, 113-119	1	2
21	Strategy for Converting an Inverting Glycoside Hydrolase into a Glycosynthase <b>2008</b> , 193-205		1
20	Effect of Lacto-N-biose I on the Antigen-specific Immune Responses of Splenocytes. <i>Bioscience of Microbiota, Food and Health</i> , <b>2012</b> , 31, 47-50	3.2	1
19	[Review: Symposium on Amylases and Related Enzymes] Practical Preparation of Oligosaccharides by Utilizing Bifidobacterial Enzymes. <i>Bulletin of Applied Glycoscience</i> , <b>2012</b> , 2, 136-141	0.1	1
18	[Mini Review] Production of Novel Oligosaccharides by Using of Synthetic Reaction Catalyzing by Carbohydrate Active Enzyme. <i>Bulletin of Applied Glycoscience</i> , <b>2012</b> , 2, 223-224	0.1	1
17	Generation of 3-deoxypentulose by the isomerization and Elimination of 4-O-substituted glucose and fructose. <i>Carbohydrate Research</i> , <b>2021</b> , 508, 108402	2.9	1
16	Discovery of solabiose phosphorylase and its application for enzymatic synthesis of solabiose from sucrose and lactose <i>Scientific Reports</i> , <b>2022</b> , 12, 259	4.9	O
15	Effect of C-6 Methylol Groups on Substrate Recognition of Glucose/Xylose Mixed Oligosaccharides by Cellobiose Dehydrogenase from the Basidiomycete. <i>Journal of Applied Glycoscience (1999)</i> , <b>2020</b> , 67, 51-57	1	O
14	Molecular mechanism on bifidus factor in human milk. <i>Japanese Journal of Lactic Acid Bacteria</i> , <b>2011</b> , 22, 15-25	Ο	
13	An Enzymatic Colorimetric Quantification of Orthophosphate. <i>Journal of Applied Glycoscience</i> (1999), <b>2011</b> , 58, 125-127	1	

Improving Enzyme Character by Molecular Breeding: Preparation of Chimeric Genes **2010**, 31-42

11	Glycosynthases from Inverting Hydrolases <b>2010</b> , 361-376	
10	Improvement of the Enzyme Character for Lignocellulose Degradation by Gene Manipulation. <i>ACS Symposium Series</i> , <b>2004</b> , 286-298	0.4
9	Purification and Properties of a Xylanase fromCellvibrio gilvusThat Hydrolyzesp-Nitrophenyl Cellooligosaccharides. <i>Agricultural and Biological Chemistry</i> , <b>1991</b> , 55, 1959-1967	
8	[Review] Enzymes Involved in Levoglucosan Metabolism by Microbes. <i>Bulletin of Applied Glycoscience</i> , <b>2020</b> , 10, 103-108	0.1
7	[Review: Symposium on Applied Glycoscience] Discovery of Novel EMannoside Phosphorylases. <i>Bulletin of Applied Glycoscience</i> , <b>2015</b> , 5, 120-127	0.1
6	Modifying Enzyme Character by Gene Manipulation <b>2009</b> , 207-214	
5	Bifidobacterial Lacto-N-biose/Galacto-N-biose Pathway Involved in Intestinal Growth <b>2009</b> , 113-121	
4	Self-transferring Product Inhibition Observed during the Hydrolysis of Aryl-ED-Glucopyranosides by a EGlucosidase from Agrobacterium tumefaciens. <i>Journal of Applied Glycoscience (1999)</i> , <b>2011</b> , 58, 129-132	1
3	p-Nitrophenyl EGlycosides of E1,4-Gluco/xylo-disaccharides for the Characterization of Subsites in Endo-xylanases. <i>Journal of Applied Glycoscience (1999)</i> , <b>2011</b> , 58, 115-118	1
2	[Review: Symposium on Applied Glycoscience] Discovery of Novel Phosphorylases Involved in Nigeran Metabolism from Clostridium phytofermentans. <i>Bulletin of Applied Glycoscience</i> , <b>2014</b> , 4, 147-	15 <sup>0</sup> 3 <sup>1</sup>
1	[Review] Advanced Utilization of Carbohydrate-Processing Enzymes. <i>Bulletin of Applied Glycoscience</i> , <b>2018</b> , 8, 20-32	0.1