

Jaeho Cha

List of Publications by Year in Descending Order

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

88
papers

1,548
citations

22
h-index

35
g-index

102
ext. papers

1,735
ext. citations

3.7
avg, IF

4.14
L-index

#	Paper	IF	Citations
88	Engineering of for Hemicellulosic Biomass Utilization.. <i>Journal of Microbiology and Biotechnology</i> , 2022 , 32, 1-8	3.3	0
87	Identification and Characterization of a Novel Thermostable GDSL-Type Lipase from. <i>Journal of Microbiology and Biotechnology</i> , 2021 , 31, 483-491	3.3	3
86	Identification of the Genes Related to the Glycogen Metabolism in Hyperthermophilic Archaeon,. <i>Frontiers in Microbiology</i> , 2021 , 12, 661053	5.7	
85	Enhancement of Antioxidant and Antibacterial Activities of Roots Fermented with. <i>Foods</i> , 2020 , 9,	4.9	4
84	Metabolic Profiling-Based Evaluation of the Fermentative Behavior of and for Soybean Residues Treated at Different Temperatures. <i>Foods</i> , 2020 , 9,	4.9	14
83	Salt Stress Response of <i>Sulfolobus acidocaldarius</i> Involves Complex Trehalose Metabolism Utilizing a Novel Trehalose-6-Phosphate Synthase (TPS)/Trehalose-6-Phosphate Phosphatase (TPP) Pathway. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	7
82	Total Microbial Activity and Sulfur Cycling Microbe Changes in Response to the Development of Hypoxia in a Shallow Estuary. <i>Ocean Science Journal</i> , 2020 , 55, 165-181	1.1	1
81	Comparison of the Structural Properties and Nutritional Fraction of Corn Starch Treated with Thermophilic GH13 and GH57 α -Glucan Branching Enzymes. <i>Foods</i> , 2019 , 8,	4.9	1
80	Profiling of glucose-induced transcription in <i>Sulfolobus acidocaldarius</i> DSM 639. <i>Genes and Genomics</i> , 2018 , 40, 1157-1167	2.1	2
79	Synthesis of Aesculetin and Aesculin Glycosides Using Engineered Expressing Amylosucrase. <i>Journal of Microbiology and Biotechnology</i> , 2018 , 28, 566-570	3.3	9
78	Saci_1816: A Trehalase that Catalyzes Trehalose Degradation in the Thermoacidophilic Crenarchaeon. <i>Journal of Microbiology and Biotechnology</i> , 2018 , 28, 909-916	3.3	4
77	<i>Sulfolobus acidocaldarius</i> Transports Pentoses via a Carbohydrate Uptake Transporter 2 (CUT2)-Type ABC Transporter and Metabolizes Them through the Aldolase-Independent Weimberg Pathway. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	21
76	Synthesis of aesculetin and aesculin glycosides using engineered expressing amylosucrase. <i>Journal of Microbiology and Biotechnology</i> , 2018 ,	3.3	1
75	Structural basis for the transglycosylase activity of a GH57-type glycogen branching enzyme from <i>Pyrococcus horikoshii</i> . <i>Biochemical and Biophysical Research Communications</i> , 2017 , 484, 850-856	3.4	17
74	Characterization of a thermostable glycoside hydrolase family 36 α -galactosidase from <i>Caldicellulosiruptor bescii</i> . <i>Journal of Bioscience and Bioengineering</i> , 2017 , 124, 289-295	3.3	15
73	Glycosylation Enhances the Physicochemical Properties of Caffeic Acid Phenethyl Ester. <i>Journal of Microbiology and Biotechnology</i> , 2017 , 27, 1916-1924	3.3	8
72	Glycosylation enables aesculin to activate Nrf2. <i>Scientific Reports</i> , 2016 , 6, 29956	4.9	9

71	Kombucha tea prevents obese mice from developing hepatic steatosis and liver damage. <i>Food Science and Biotechnology</i> , 2016 , 25, 861-866	3	18
70	Characterization of a trehalose-degrading enzyme from the hyperthermophilic archaeon <i>Sulfolobus acidocaldarius</i> . <i>Journal of Bioscience and Bioengineering</i> , 2016 , 122, 47-51	3-3	8
69	Membrane-bound amylopullulanase is essential for starch metabolism of <i>Sulfolobus acidocaldarius</i> DSM639. <i>Extremophiles</i> , 2015 , 19, 909-20	3	10
68	Crystal structure of N-acetylglucosaminidase CbsA from <i>Thermotoga neapolitana</i> . <i>Biochemical and Biophysical Research Communications</i> , 2015 , 464, 869-74	3-4	3
67	Improvement of a <i>Sulfolobus</i> - <i>E. coli</i> shuttle vector for heterologous gene expression in <i>Sulfolobus acidocaldarius</i> . <i>Journal of Microbiology and Biotechnology</i> , 2015 , 25, 196-205	3-3	4
66	Synthesis and biological evaluation of a novel baicalein glycoside as an anti-inflammatory agent. <i>European Journal of Pharmacology</i> , 2014 , 744, 147-56	5-3	27
65	Glycoconjugates synthesized via transglycosylation by a thermostable β glucosidase from <i>Thermoplasma acidophilum</i> and its glycosynthase mutant. <i>Biotechnology Letters</i> , 2014 , 36, 789-96	3	6
64	A novel integrative expression vector for <i>Sulfolobus</i> species. <i>Journal of Microbiology and Biotechnology</i> , 2014 , 24, 1503-9	3-3	1
63	Identification of antigenic <i>Edwardsiella tarda</i> surface proteins and their role in pathogenesis. <i>Fish and Shellfish Immunology</i> , 2013 , 34, 673-82	4-3	9
62	Catalpol suppresses advanced glycation end-products-induced inflammatory responses through inhibition of reactive oxygen species in human monocytic THP-1 cells. <i>Fitoterapia</i> , 2013 , 86, 19-28	3-2	51
61	Biochemical characterization of 4- β glucanotransferase from <i>Saccharophagus degradans</i> 2-40 and its potential role in glycogen degradation. <i>FEMS Microbiology Letters</i> , 2013 , 344, 145-51	2-9	5
60	Identification and characterization of MalA in the maltose/maltodextrin operon of <i>Sulfolobus acidocaldarius</i> DSM639. <i>Journal of Bacteriology</i> , 2013 , 195, 1789-99	3-5	16
59	Structure of a novel β mylase AmyB from <i>Thermotoga neapolitana</i> that produces maltose from the nonreducing end of polysaccharides. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 442-50		2
58	Enzymatic properties of a thermostable β glucosidase from acidothermophilic crenarchaeon <i>Sulfolobus tokodaii</i> strain 7. <i>Journal of Microbiology and Biotechnology</i> , 2013 , 23, 56-63	3-3	11
57	Molecular cloning and enzymatic characterization of cyclomaltodextrinase from hyperthermophilic archaeon <i>Thermococcus</i> sp. CL1. <i>Journal of Microbiology and Biotechnology</i> , 2013 , 23, 1060-9	3-3	12
56	Enhancement of the Thermostability of a Fibrinolytic Enzyme from <i>Bacillus amyloliquefaciens</i> CH51. <i>Journal of Life Science</i> , 2013 , 23, 15-23		2
55	Structural and functional basis for substrate specificity and catalysis of levan fructotransferase. <i>FASEB Journal</i> , 2013 , 27, lb219	0-9	
54	Enzymatic synthesis of piceid glucosides using maltosyltransferase from <i>Caldicellulosiruptor bescii</i> DSM 6725. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 8183-9	5-7	9

53	Aesculin inhibits matrix metalloproteinase-9 expression via p38 mitogen activated protein kinase and activator protein 1 in lipopolysachride-induced RAW264.7 cells. <i>International Immunopharmacology</i> , 2012 , 14, 267-74	5.8	14
52	Synthesis and characterization of ampelopsin glucosides using dextransucrase from <i>Leuconostoc mesenteroides</i> B-1299CB4: glucosylation enhancing physicochemical properties. <i>Enzyme and Microbial Technology</i> , 2012 , 51, 311-8	3.8	53
51	Crystallization and preliminary X-ray crystallographic analysis of the β -N-acetylglucosaminidase CbsA from <i>Thermotoga neapolitana</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012 , 68, 56-8		2
50	<i>Rehmannia glutinosa</i> suppresses inflammatory responses elicited by advanced glycation end products. <i>Inflammation</i> , 2012 , 35, 1232-41	5.1	45
49	Structural and functional basis for substrate specificity and catalysis of levan fructotransferase. <i>Journal of Biological Chemistry</i> , 2012 , 287, 31233-41	5.4	21
48	Functional expression of amylosucrase, a glucan-synthesizing enzyme, from <i>Arthrobacter chlorophenolicus</i> A6. <i>Journal of Microbiology and Biotechnology</i> , 2012 , 22, 1253-7	3.3	19
47	Bioconversion of piceid to piceid glucoside using amylosucrase from <i>Alteromonas macleodii</i> deep ecotype. <i>Journal of Microbiology and Biotechnology</i> , 2012 , 22, 1698-704	3.3	15
46	Characterization of the catalytic and kinetic properties of a thermostable <i>Thermoplasma acidophilum</i> β -glucosidase and its transglucosylation reaction with arbutin. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011 , 72, 305-312		12
45	Isomaltulose production via yeast surface display of sucrose isomerase from <i>Enterobacter</i> sp. FMB-1 on <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2011 , 102, 9179-84	11	37
44	Discovery of novel inhibitors for human intestinal maltase: virtual screening in a WISDOM environment and in vitro evaluation. <i>Biotechnology Letters</i> , 2011 , 33, 2185-91	3	5
43	Cloning and overexpression of aprE3-17 encoding the major fibrinolytic protease of <i>Bacillus licheniformis</i> CH 3-17. <i>Biotechnology and Bioprocess Engineering</i> , 2011 , 16, 352-359	3.1	8
42	Identification of an extracellular thermostable glycosyl hydrolase family 13 β -amylase from <i>Thermotoga neapolitana</i> . <i>Journal of Microbiology</i> , 2011 , 49, 628-34	3	5
41	Molecular cloning and biochemical characterization of a heat-stable type I pullulanase from <i>Thermotoga neapolitana</i> . <i>Enzyme and Microbial Technology</i> , 2011 , 48, 260-6	3.8	64
40	Enhancement of the catalytic activity of a 27 kDa subtilisin-like enzyme from <i>Bacillus amyloliquefaciens</i> CH51 by in vitro mutagenesis. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 8675-82	5.7	11
39	Biosynthesis of (+)-catechin glycosides using recombinant amylosucrase from <i>Deinococcus geothermalis</i> DSM 11300. <i>Enzyme and Microbial Technology</i> , 2011 , 49, 246-53	3.8	50
38	Fibrinolytic and antiplatelet aggregation properties of a recombinant Cheonggukjang kinase. <i>Journal of Medicinal Food</i> , 2011 , 14, 625-9	2.8	8
37	Enzymatic Synthesis of Polyphenol Glycosides by Amylosucrase. <i>Journal of Life Science</i> , 2011 , 21, 1631-1635		5
36	Enzymatic Characterization of a Thermostable 4- β -Glucanotransferase from <i>Thermotoga neapolitana</i> . <i>Journal of Life Science</i> , 2011 , 21, 221-226		1

- 35 Isolation and Characterization of Pyrimidine Auxotrophs from the Hyperthermophilic Archaeon *Sulfolobus acidocaldarius* DSM 639. *Journal of Life Science*, **2011**, 21, 1370-1376
- 34 Enzymatic synthesis and characterization of hydroquinone galactoside using *Kluyveromyces lactis* lactase. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 9492-7 5:7 27
- 33 Characterization of an exo-acting intracellular alpha-amylase from the hyperthermophilic bacterium *Thermotoga neapolitana*. *Applied Microbiology and Biotechnology*, **2010**, 86, 555-66 5:7 22
- 32 Overexpression and characterization of an extremely thermostable maltogenic amylase, with an optimal temperature of 100 degrees C, from the hyperthermophilic archaeon *Staphylothermus marinus*. *New Biotechnology*, **2010**, 27, 300-7 6:4 25
- 31 Cloning of aprE86-1 Gene Encoding 27 kDa Mature Fibrinolytic Enzyme from *Bacillus amyloliquefaciens* CH86-1. *Journal of Microbiology and Biotechnology*, **2010**, 20, 370-374 3:3 2
- 30 Highly selective biotransformation of arbutin to arbutin-β-glucoside using amylosucrase from *Deinococcus geothermalis* DSM 11300. *Journal of Molecular Catalysis B: Enzymatic*, **2009**, 60, 113-118 34
- 29 Characterization of glycosyl hydrolase family 3 beta-N-acetylglucosaminidases from *Thermotoga maritima* and *Thermotoga neapolitana*. *Journal of Bioscience and Bioengineering*, **2009**, 108, 455-9 3:3 22
- 28 Molecular cloning and functional characterization of a sucrose isomerase (isomaltulose synthase) gene from *Enterobacter* sp. FMB-1. *Journal of Applied Microbiology*, **2009**, 107, 1119-30 4:7 17
- 27 Enzymatic synthesis of salicin glycosides through transglycosylation catalyzed by amylosucrases from *Deinococcus geothermalis* and *Neisseria polysaccharea*. *Carbohydrate Research*, **2009**, 344, 1612-9 2:9 61
- 26 Molecular cloning and functional expression of a new amylosucrase from *Alteromonas macleodii*. *Bioscience, Biotechnology and Biochemistry*, **2009**, 73, 1505-12 2:1 32
- 25 Properties of Cheonggukjang Fermented with *Bacillus* Strains with High Fibrinolytic Activities. *Preventive Nutrition and Food Science*, **2009**, 14, 252-259 2:4 4
- 24 Characterization of a 27 kDa fibrinolytic enzyme from *Bacillus amyloliquefaciens* CH51 isolated from cheonggukjang. *Journal of Microbiology and Biotechnology*, **2009**, 19, 997-1004 3:3 34
- 23 Production of Cheonggukjang by Using a Recombinant *Bacillus licheniformis* Strain. *Preventive Nutrition and Food Science*, **2009**, 14, 90-93 2:4
- 22 Enzymatic synthesis of dimaltosyl-beta-cyclodextrin via a transglycosylation reaction using TreX, a *Sulfolobus solfataricus* P2 debranching enzyme. *Biochemical and Biophysical Research Communications*, **2008**, 366, 98-103 3:4 5
- 21 Analysis of sucrose isomerase gene cluster of *Enterobacter* SP. FMB1 and production of palatinose using recombinant *E. coli*. *Journal of Biotechnology*, **2008**, 136, S734 3:7
- 20 Analysis of multifunctional catalytic activity of amylosucrase from *Deinococcus geothermalis* and its application on the production of transglycosylation product. *Journal of Biotechnology*, **2008**, 136, S732 3:7 1
- 19 Molecular Cloning of the Amylosucrase Gene from a Moderate Thermophilic Bacterium *Deinococcus Geothermalis* and Analysis of its Dual Enzyme Activity **2008**, 125-140 13
- 18 Inhibitory effects of arbutin-beta-glycosides synthesized from enzymatic transglycosylation for melanogenesis. *Biotechnology Letters*, **2008**, 30, 743-8 3 24

17	Probing the critical residues for intramolecular fructosyl transfer reaction of a levan fructotransferase. <i>Journal of Microbiology and Biotechnology</i> , 2008 , 18, 1064-9	3-3	2
16	Identification of catalytic acidic residues of levan fructotransferase from <i>Microbacterium</i> sp. AL-210. <i>Journal of Life Science</i> , 2007 , 17, 6-11		
15	Effect of multiple copies of cohesins on cellulase and hemicellulase activities of <i>Clostridium cellulovorans</i> mini-cellulosomes. <i>Journal of Microbiology and Biotechnology</i> , 2007 , 17, 1782-8	3-3	20
14	Physicochemical properties and biological activities of DEAE-derivatized <i>Sphingomonas gellan</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 6235-9	5-7	8
13	A novel trehalose-synthesizing glycosyltransferase from <i>Pyrococcus horikoshii</i> : molecular cloning and characterization. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 329, 429-36	3-4	47
12	Substrate specificity and transglycosylation catalyzed by a thermostable beta-glucosidase from marine hyperthermophile <i>Thermotoga neapolitana</i> . <i>Applied Microbiology and Biotechnology</i> , 2005 , 69, 411-22	5-7	64
11	Production of a new sucrose derivative by transglycosylation of recombinant <i>Sulfolobus shibatae</i> beta-glycosidase. <i>Carbohydrate Research</i> , 2005 , 340, 1089-96	2-9	12
10	Isolation of an exopolysaccharide-producing bacterium, <i>Sphingomonas</i> sp. CS101, which forms an unusual type of sphingan. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004 , 68, 1146-8	2-1	22
9	Antitumor activity of levan polysaccharides from selected microorganisms. <i>International Journal of Biological Macromolecules</i> , 2004 , 34, 37-41	7-9	119
8	Effect of levan's branching structure on antitumor activity. <i>International Journal of Biological Macromolecules</i> , 2004 , 34, 191-4	7-9	45
7	Enzymatic synthesis of fructosyl oligosaccharides by levansucrase from <i>Microbacterium laevaniformans</i> ATCC 15953. <i>Enzyme and Microbial Technology</i> , 2003 , 32, 820-827	3-8	48
6	Cloning and sequence analysis of a novel metalloprotease gene from <i>Vibrio parahaemolyticus</i> 04. <i>Gene</i> , 2002 , 283, 277-86	3-8	32
5	Cloning and characterization of a levanbiohydrolase from <i>Microbacterium laevaniformans</i> ATCC 15953. <i>Gene</i> , 2002 , 291, 45-55	3-8	16
4	Expression, purification and characterization of a recombinant levan fructotransferase. <i>Biotechnology and Applied Biochemistry</i> , 2002 , 35, 199	2-8	7
3	Molecular and enzymatic characterization of a levan fructotransferase from <i>Microbacterium</i> sp. AL-210. <i>Journal of Biotechnology</i> , 2001 , 91, 49-61	3-7	23
2	Selective replacement of the catalytic zinc of the human stromelysin-1 catalytic domain. <i>Journal of Biological Inorganic Chemistry</i> , 1998 , 3, 353-359	3-7	9
1	Probing the roles of active site residues in D-xylose isomerase. <i>Journal of Biological Chemistry</i> , 1995 , 270, 22895-906	5-4	62