Jaeho Cha

List of Publications by Citations

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	Antitumor activity of levan polysaccharides from selected microorganisms. *International Journal of Biological Macromolecules*, **2004**, 34, 37-41	7.9	119
87	Molecular cloning and biochemical characterization of a heat-stable type I pullulanase from Thermotoga neapolitana. *Enzyme and Microbial Technology*, **2011**, 48, 260-6	3.8	64
86	Substrate specificity and transglycosylation catalyzed by a thermostable beta-glucosidase from marine hyperthermophile Thermotoga neapolitana. *Applied Microbiology and Biotechnology*, **2005**, 69, 411-22	5.7	64
85	Probing the roles of active site residues in D-xylose isomerase. *Journal of Biological Chemistry*, **1995** , 270, 22895-906	5.4	62
84	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
83	Synthesis and characterization of ampelopsin glucosides using dextransucrase from Leuconostoc mesenteroides B-1299CB4: glucosylation enhancing physicochemical properties. *Enzyme and Microbial Technology*, **2012**, 51, 311-8	3.8	53
82	Catalpol suppresses advanced glycation end-products-induced inflammatory responses through inhibition of reactive oxygen species in human monocytic THP-1 cells. *Fitoterap* **2013**, 86, 19-28	3.2	51
81	Biosynthesis of (+)-catechin glycosides using recombinant amylosucrase from Deinococcus geothermalis DSM 11300. *Enzyme and Microbial Technology*, **2011**, 49, 246-53	3.8	50
80	Enzymatic synthesis of fructosyl oligosaccharides by levansucrase from Microbacterium laevaniformans ATCC 15953. *Enzyme and Microbial Technology*, **2003**, 32, 820-827	3.8	48
79	A novel trehalose-synthesizing glycosyltransferase from Pyrococcus horikoshii: molecular cloning and characterization. *Biochemical and Biophysical Research Communications*, **2005**, 329, 429-36	3.4	47
78	Rehmannia glutinosa suppresses inflammatory responses elicited by advanced glycation end products. *Inflammation*, **2012**, 35, 1232-41	5.1	45
77	Effect of levan's branching structure on antitumor activity. *International Journal of Biological Macromolecules*, **2004**, 34, 191-4	7.9	45
76	Isomaltulose production via yeast surface display of sucrose isomerase from Enterobacter sp. FMB-1 on Saccharomyces cerevisiae. *Bioresource Technology*, **2011**, 102, 9179-84	11	37
75	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
74	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
73	Molecular cloning and functional expression of a new amylosucrase from Alteromonas macleodii. *Bioscience, Biotechnology and Biochemistry*, **2009**, 73, 1505-12	2.1	32
72	Cloning and sequence analysis of a novel metalloprotease gene from Vibrio parahaemolyticus 04. *Gene*, **2002**, 283, 277-86	3.8	32

71	Synthesis and biological evaluation of a novel baicalein glycoside as an anti-inflammatory agent. *European Journal of Pharmacology*, **2014**, 744, 147-56	5.3	27
70	Enzymatic synthesis and characterization of hydroquinone galactoside using Kluyveromyces lactis lactase. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 9492-7	5.7	27
69	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
68	Inhibitory effects of arbutin-beta-glycosides synthesized from enzymatic transglycosylation for melanogenesis. *Biotechnology Letters*, **2008**, 30, 743-8	3	24
67	Molecular and enzymatic characterization of a levan fructotransferase from Microbacterium sp. AL-210. *Journal of Biotechnology*, **2001**, 91, 49-61	3.7	23
66	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
65	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
64	Isolation of an exopolysaccharide-producing bacterium, Sphingomonas sp. CS101, which forms an unusual type of sphingan. *Bioscience, Biotechnology and Biochemistry*, **2004**, 68, 1146-8	2.1	22
63	Structural and functional basis for substrate specificity and catalysis of levan fructotransferase. *Journal of Biological Chemistry*, **2012**, 287, 31233-41	5.4	21
62	Sulfolobus acidocaldarius Transports Pentoses via a Carbohydrate Uptake Transporter 2 (CUT2)-Type ABC Transporter and Metabolizes Them through the Aldolase-Independent Weimberg Pathway. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	21
61	Effect of multiple copies of cohesins on cellulase and hemicellulase activities of Clostridium cellulovorans mini-cellulosomes. *Journal of Microbiology and Biotechnology*, **2007**, 17, 1782-8	3.3	20
60	Functional expression of amylosucrase, a glucan-synthesizing enzyme, from Arthrobacter chlorophenolicus A6. *Journal of Microbiology and Biotechnology*, **2012**, 22, 1253-7	3.3	19
59	Kombucha tea prevents obese mice from developing hepatic steatosis and liver damage. *Food Science and Biotechnology*, **2016**, 25, 861-866	3	18
58	Structural basis for the transglycosylase activity of a GH57-type glycogen branching enzyme from Pyrococcus horikoshii. *Biochemical and Biophysical Research Communications*, **2017**, 484, 850-856	3.4	17
57	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
56	Identification and characterization of MalA in the maltose/maltodextrin operon of Sulfolobus acidocaldarius DSM639. *Journal of Bacteriology*, **2013**, 195, 1789-99	3.5	16
55	Cloning and characterization of a levanbiohydrolase from Microbacterium laevaniformans ATCC 15953. *Gene*, **2002**, 291, 45-55	3.8	16
54	Characterization of a thermostable glycoside hydrolase family 36 α-galactosidase from Caldicellulosiruptor bescii. *Journal of Bioscience and Bioengineering*, **2017**, 124, 289-295	3.3	15

53	Bioconversion of piceid to piceid glucoside using amylosucrase from Alteromonas macleodii deep ecotype. *Journal of Microbiology and Biotechnology*, **2012**, 22, 1698-704	3.3	15
52	Metabolic Profiling-Based Evaluation of the Fermentative Behavior of and for Soybean Residues Treated at Different Temperatures. *Foods*, **2020**, 9,	4.9	14
51	Aesculin inhibits matrix metalloproteinase-9 expression via p38 mitogen activated protein kinase and activator protein 1 in lipopolysachride-induced RAW264.7 cells. *International Immunopharmacology*, **2012**, 14, 267-74	5.8	14
50	Molecular Cloning of the Amylosucrase Gene from a Moderate Thermophilic Bacterium Deinococcus Geothermalis and Analysis of its Dual Enzyme Activity **2008**, 125-140		13
49	Characterization of the catalytic and kinetic properties of a thermostable Thermoplasma acidophilum □glucosidase and its transglucosylation reaction with arbutin. *Journal of Molecular Catalysis B: Enzymatic*, **2011**, 72, 305-312		12
48	Production of a new sucrose derivative by transglycosylation of recombinant Sulfolobus shibatae beta-glycosidase. *Carbohydrate Research*, **2005**, 340, 1089-96	2.9	12
47	Molecular cloning and enzymatic characterization of cyclomaltodextrinase from hyperthermophilic archaeon Thermococcus sp. CL1. *Journal of Microbiology and Biotechnology*, **2013**, 23, 1060-9	3.3	12
46	Enhancement of the catalytic activity of a 27 kDa subtilisin-like enzyme from Bacillus amyloliquefaciens CH51 by in vitro mutagenesis. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 8675-82	5.7	11
45	Enzymatic properties of a thermostable □glucosidase from acidothermophilic crenarchaeon Sulfolobus tokodaii strain 7. *Journal of Microbiology and Biotechnology*, **2013**, 23, 56-63	3.3	11
44	Membrane-bound amylopullulanase is essential for starch metabolism of Sulfolobus acidocaldarius DSM639. *Extremophiles*, **2015**, 19, 909-20	3	10
43	Glycosylation enables aesculin to activate Nrf2. *Scientific Reports*, **2016**, 6, 29956	4.9	9
42	Identification of antigenic Edwardsiella tarda surface proteins and their role in pathogenesis. *Fish and Shellfish Immunology*, **2013**, 34, 673-82	4.3	9
41	Enzymatic synthesis of piceid glucosides using maltosyltransferase from Caldicellulosiruptor bescii DSM 6725. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 8183-9	5.7	9
40	Selective replacement of the catalytic zinc of the human stromelysin-1 catalytic domain. *Journal of Biological Inorganic Chemistry*, **1998**, 3, 353-359	3.7	9
39	Synthesis of Aesculetin and Aesculin Glycosides Using Engineered Expressing Amylosucrase. *Journal of Microbiology and Biotechnology*, **2018**, 28, 566-570	3.3	9
38	Characterization of a trehalose-degrading enzyme from the hyperthermophilic archaeon Sulfolobus acidocaldarius. *Journal of Bioscience and Bioengineering*, **2016**, 122, 47-51	3.3	8
37	Cloning and overexpression of aprE3-17 encoding the major fibrinolytic protease of Bacillus licheniformis CH 3-17. *Biotechnology and Bioprocess Engineering*, **2011**, 16, 352-359	3.1	8
36	Fibrinolytic and antiplatelet aggregation properties of a recombinant Cheonggukjang kinase. *Journal of Medicinal Food*, **2011**, 14, 625-9	2.8	8

35	Physicochemical properties and biological activities of DEAE-derivatized Sphingomonas gellan. *Journal of Agricultural and Food Chemistry*, **2005**, 53, 6235-9	5.7	8
34	Glycosylation Enhances the Physicochemical Properties of Caffeic Acid Phenethyl Ester. *Journal of Microbiology and Biotechnology*, **2017**, 27, 1916-1924	3.3	8
33	Expression, purification and characterization of a recombinant levan fructotransferase. *Biotechnology and Applied Biochemistry*, **2002**, 35, 199	2.8	7
32	Salt Stress Response of Sulfolobus acidocaldarius Involves Complex Trehalose Metabolism Utilizing a Novel Trehalose-6-Phosphate Synthase (TPS)/Trehalose-6-Phosphate Phosphatase (TPP) Pathway. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	7
31	Glycoconjugates synthesized via transglycosylation by a thermostable □glucosidase from Thermoplasma acidophilum and its glycosynthase mutant. *Biotechnology Letters*, **2014**, 36, 789-96	3	6
30	Biochemical characterization of 4-□glucanotransferase from Saccharophagus degradans 2-40 and its potential role in glycogen degradation. *FEMS Microbiology Letters*, **2013**, 344, 145-51	2.9	5
29	Discovery of novel inhibitors for human intestinal maltase: virtual screening in a WISDOM environment and in vitro evaluation. *Biotechnology Letters*, **2011**, 33, 2185-91	3	5
28	Identification of an extracellular thermostable glycosyl hydrolase family 13 □amylase from Thermotoga neapolitana. *Journal of Microbiology*, **2011**, 49, 628-34	3	5
27	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
26	Enzymatic Synthesis of Polyphenol Glycosides by Amylosucrase. *Journal of Life Science*, **2011**, 21, 1631-1635		5
25	Enhancement of Antioxidant and Antibacterial Activities of Roots Fermented with. *Foods*, **2020**, 9,	4.9	4
24	Properties of Cheonggukjang Fermented with Bacillus Strains with High Fibrinolytic Activities. *Preventive Nutrition and Food Science*, **2009**, 14, 252-259	2.4	4
23	Improvement of a Sulfolobus-E. coli shuttle vector for heterologous gene expression in Sulfolobus acidocaldarius. *Journal of Microbiology and Biotechnology*, **2015**, 25, 196-205	3.3	4
22	Saci_1816: A Trehalase that Catalyzes Trehalose Degradation in the Thermoacidophilic Crenarchaeon. *Journal of Microbiology and Biotechnology*, **2018**, 28, 909-916	3.3	4
21	Crystal structure of □N-acetylglucosaminidase CbsA from Thermotoga neapolitana. *Biochemical and Biophysical Research Communications*, **2015**, 464, 869-74	3.4	3
20	Identification and Characterization of a Novel Thermostable GDSL-Type Lipase from. *Journal of Microbiology and Biotechnology*, **2021**, 31, 483-491	3.3	3
19	Profiling of glucose-induced transcription in Sulfolobus acidocaldarius DSM 639. *Genes and Genomics*, **2018**, 40, 1157-1167	2.1	2
18	Crystallization and preliminary X-ray crystallographic analysis of the □N-acetylglucosaminidase CbsA from Thermotoga neapolitana. *Acta Crystallographica Section F: Structural Biology Communications*, **2012**, 68, 56-8		2

17	Structure of a novel α-amylase AmyB from Thermotoga neapolitana that produces maltose from the nonreducing end of polysaccharides. *Acta Crystallographica Section D: Biological Crystallography* , **2013**, 69, 442-50		2
16	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
15	Enhancement of the Thermostability of a Fibrinolytic Enzyme from Bacillus amyloliquefaciens CH51. *Journal of Life Science*, **2013**, 23, 15-23		2
14	Probing the critical residues for intramolecular fructosyl transfer reaction of a levan fructotransferase. *Journal of Microbiology and Biotechnology*, **2008**, 18, 1064-9	3.3	2
13	Comparison of the Structural Properties and Nutritional Fraction of Corn Starch Treated with Thermophilic GH13 and GH57 α-Glucan Branching Enzymes. *Foods*, **2019**, 8,	4.9	1
12	Analysis of multifunctional catalytic activity of amylosucase from Deinococcus geothermalis and its application on the production of transglycosylation product. *Journal of Biotechnology*, **2008**, 136, S732	3.7	1
11	A novel integrative expression vector for Sulfolobus species. *Journal of Microbiology and Biotechnology*, **2014**, 24, 1503-9	3.3	1
10	Enzymatic Characterization of a Thermostable 4-α-Glucanotransferase from Thermotoga neapolitana. *Journal of Life Science*, **2011**, 21, 221-226		1
9	Total Microbial Activity and Sulfur Cycling Microbe Changes in Response to the Development of Hypoxia in a Shallow Estuary. *Ocean Science Journal*, **2020**, 55, 165-181	1.1	1
8	Synthesis of aesculetin and aesculin glycosides using engineered expressing amylosucrase. *Journal of Microbiology and Biotechnology*, **2018**,	3.3	1
7	Engineering of for Hemicellulosic Biomass Utilization.. *Journal of Microbiology and Biotechnology*, **2022**, 32, 1-8	3.3	0
6	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	
5	Identification of catalytic acidic residues of levan fructotransferase from Microbacterium sp. AL-210. *Journal of Life Science*, **2007**, 17, 6-11		
4	Production of Cheonggukjang by Using a Recombinant Bacillus licheniformis Strain. *Preventive Nutrition and Food Science*, **2009**, 14, 90-93	2.4	
3	Isolation and Characterization of Pyrimidine Auxotrophs from the Hyperthermophilic Archaeon Sulfolobus acidocaldarius DSM 639. *Journal of Life Science*, **2011**, 21, 1370-1376		
2	Structural and functional basis for substrate specificity and catalysis of levan fructotransferase. *FASEB Journal*, **2013**, 27, lb219	0.9	
1	Identification of the Genes Related to the Glycogen Metabolism in Hyperthermophilic Archaeon,. *Frontiers in Microbiology*, **2021**, 12, 661053	5.7	