

Young-Wan Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11389329/publications.pdf>

Version: 2024-02-01

55
papers

1,678
citations

279798

23
h-index

289244

40
g-index

55
all docs

55
docs citations

55
times ranked

1649
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic and Structural Analysis of a Family 31 α -Glucosidase and Its Glycosyl-enzyme Intermediate. <i>Journal of Biological Chemistry</i> , 2005, 280, 2105-2115.	3.4	156
2	Directed Evolution of a Glycosynthase from <i>Agrobacterium</i> sp. Increases Its Catalytic Activity Dramatically and Expands Its Substrate Repertoire. <i>Journal of Biological Chemistry</i> , 2004, 279, 42787-42793.	3.4	116
3	Molecular and enzymatic characterization of a maltogenic amylase that hydrolyzes and transglycosylates acarbose. <i>FEBS Journal</i> , 1998, 253, 251-262.	0.2	106
4	Directed Evolution of <i>Thermus</i> Maltogenic Amylase toward Enhanced Thermal Resistance. <i>Applied and Environmental Microbiology</i> , 2003, 69, 4866-4874.	3.1	98
5	Active-site Peptide "Fingerprinting" of Glycosidases in Complex Mixtures by Mass Spectrometry. <i>Journal of Biological Chemistry</i> , 2005, 280, 35126-35135.	3.4	73
6	Expanding the Thioglycoligase Strategy to the Synthesis of α -Linked Thioglycosides Allows Structural Investigation of the Parent Enzyme/Substrate Complex. <i>Journal of the American Chemical Society</i> , 2006, 128, 2202-2203.	13.7	72
7	The action mode of <i>Thermus aquaticus</i> YT-1 α -glucanotransferase and its chimeric enzymes introduced with starch-binding domain on amylose and amylopectin. <i>Carbohydrate Polymers</i> , 2007, 67, 164-173.	10.2	72
8	Properties of a Novel Thermostable Glucoamylase from the Hyperthermophilic Archaeon <i>Sulfolobus solfataricus</i> in Relation to Starch Processing. <i>Applied and Environmental Microbiology</i> , 2004, 70, 3933-3940.	3.1	65
9	Amylolytically-resistant tapioca starch modified by combined treatment of branching enzyme and maltogenic amylase. <i>Carbohydrate Polymers</i> , 2009, 75, 9-14.	10.2	60
10	Glycosynthase-based synthesis of xylo-oligosaccharides using an engineered retaining xylanase from <i>Cellulomonas fimi</i> . <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 2025.	2.8	58
11	Molecular characterization of a dimeric intracellular maltogenic amylase of <i>Bacillus subtilis</i> SUH4-2. <i>BBA - Proteins and Proteomics</i> , 2000, 1478, 333-340.	2.1	55
12	Role of Maltogenic Amylase and Pullulanase in Maltodextrin and Glycogen Metabolism of <i>Bacillus subtilis</i> 168. <i>Journal of Bacteriology</i> , 2009, 191, 4835-4844.	2.2	48
13	Modulation of the Multisubstrate Specificity of <i>Thermus</i> Maltogenic Amylase by Truncation of the N-Terminal Domain and by a Salt-Induced Shift of the Monomer/Dimer Equilibrium. <i>Biochemistry</i> , 2001, 40, 14182-14190.	2.5	45
14	Improvement of cyclodextrin glucanotransferase as an antistaling enzyme by error-prone PCR. <i>Protein Engineering, Design and Selection</i> , 2004, 17, 205-211.	2.1	44
15	Gene cloning and characterization of a trehalose synthase from <i>Corynebacterium glutamicum</i> ATCC13032. <i>Food Science and Biotechnology</i> , 2010, 19, 565-569.	2.6	38
16	Structural and biochemical characterization of the broad substrate specificity of <i>Bacteroides thetaiotaomicron</i> commensal sialidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1510-1519.	2.3	37
17	Molecular cloning and biochemical characterization of the first archaeal maltogenic amylase from the hyperthermophilic archaeon <i>Thermoplasma volcanium</i> GSS1. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 661-669.	2.3	36
18	Modulation of Cyclizing Activity and Thermostability of Cyclodextrin Glucanotransferase and Its Application as an Antistaling Enzyme. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 1411-1415.	5.2	34

#	ARTICLE	IF	CITATIONS
19	Thioglycoligase-Based Assembly of Thiodisaccharides: Screening as Galactosidase Inhibitors. <i>ChemBioChem</i> , 2007, 8, 1495-1499.	2.6	34
20	A novel amylolytic enzyme from <i>Thermotoga maritima</i> , resembling cyclodextrinase and α -glucosidase, that liberates glucose from the reducing end of the substrates. <i>Biochemical and Biophysical Research Communications</i> , 2002, 295, 818-825.	2.1	31
21	Characterization of amine oxidases from <i>Arthrobacter aurescens</i> and application for determination of biogenic amines. <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 673-682.	3.6	29
22	Efficient constitutive expression of thermostable α -glucanotransferase in <i>Bacillus subtilis</i> using dual promoters. <i>World Journal of Microbiology and Biotechnology</i> , 2010, 26, 1915-1918.	3.6	26
23	Comparison of ELISA and HPLC methods for the determination of biogenic amines in commercial doenjang and gochujang. <i>Food Science and Biotechnology</i> , 2011, 20, 1747-1750.	2.6	24
24	Enzymatic transglycosylation of xylose using a glycosynthase. <i>Carbohydrate Research</i> , 2005, 340, 2735-2741.	2.3	23
25	Overproduction and characterization of a lytic polysaccharide monooxygenase in <i>Bacillus subtilis</i> using an assay based on ascorbate consumption. <i>Enzyme and Microbial Technology</i> , 2016, 93-94, 150-156.	3.2	21
26	Catalytic properties of a mutant β -galactosidase from <i>Xanthomonas manihotis</i> engineered to synthesize galactosyl-thio- β -1,3 and - β -1,4-glycosides. <i>FEBS Letters</i> , 2006, 580, 4377-4381.	2.8	20
27	O-Glycoligases, a new category of glycoside bond-forming mutant glycosidases, catalyze facile syntheses of isoprimeverosides. <i>Chemical Communications</i> , 2010, 46, 8725.	4.1	20
28	Construction of a Bifunctional Enzyme Fusion for the Combined Determination of Biogenic Amines in Foods. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 9118-9124.	5.2	20
29	Enzymatic synthesis of glycosylated puerarin using maltogenic amylase from <i>Bacillus stearothermophilus</i> expressed in <i>Bacillus subtilis</i> . <i>Journal of the Science of Food and Agriculture</i> , 2010, 90, 1179-1184.	3.5	17
30	Physicochemical interactions of cycloamylose with phenolic compounds. <i>Carbohydrate Polymers</i> , 2017, 174, 980-989.	10.2	17
31	High-yield cycloamylose production from sweet potato starch using <i>Pseudomonas isoamylase</i> and <i>Thermus aquaticus</i> α -glucanotransferase. <i>Food Science and Biotechnology</i> , 2016, 25, 1413-1419.	2.6	16
32	Specificity Fingerprinting of Retaining α -1,4-Glycanases in the <i>Cellulomonas fimi</i> Secretome Using Two Fluorescent Mechanism-Based Probes. <i>ChemBioChem</i> , 2007, 8, 2125-2132.	2.6	14
33	Dissociation/association properties of a dodecameric cyclomaltodextrinase. Effects of pH and salt concentration on the oligomeric state. <i>FEBS Journal</i> , 2006, 273, 109-121.	4.7	13
34	α -Thioglycoligase-based synthesis of O-aryl α -glycosides as chromogenic substrates for α -glycosidases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 87, 24-29.	1.8	13
35	Changes in the Catalytic Properties of <i>Pyrococcus furiosus</i> Thermostable Amylase by Mutagenesis of the Substrate Binding Sites. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5607-5612.	3.1	12
36	Overproduction of a thermostable α -glucanotransferase by codon optimization at N-terminus region. <i>Journal of the Science of Food and Agriculture</i> , 2013, 93, 2683-2690.	3.5	12

#	ARTICLE	IF	CITATIONS
37	Characterization of a Galactosynthase Derived from <i>Bacillus circulans</i> Galactosidase: Facile Synthesis of D-Lactate and D-Galactate-N-bioside. <i>ChemBioChem</i> , 2014, 15, 2.6 522-526.		12
38	Enzymatic Synthesis of a Selective Inhibitor for α -Glucosidases: α -Acarviosinyl-(1 \rightarrow 9)-3,6-d-glucopyranosylpropan. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 5324-5330.	5.2	11
39	Characterization of a novel debranching enzyme from <i>Nostoc punctiforme</i> possessing a high specificity for long branched chains. <i>Biochemical and Biophysical Research Communications</i> , 2009, 378, 224-229.	2.1	11
40	Transglycosylation of engineered cyclodextrin glucanotransferases as O-glycoligases. <i>Carbohydrate Polymers</i> , 2014, 99, 39-46.	10.2	11
41	Enzymatic synthesis of 3-O- α -maltosyl-l-ascorbate using an engineered cyclodextrin glucanotransferase. <i>Food Chemistry</i> , 2015, 169, 366-371.	8.2	11
42	Rapid enzymatic assay of biogenic amines in Doenjang and Gochujang using amine oxidase. <i>Food Science and Biotechnology</i> , 2013, 22, 1131-1136.	2.6	10
43	Optimizing the preparation conditions and characterization of cross-linked enzyme aggregates of a monoamine oxidase. <i>Food Science and Biotechnology</i> , 2016, 25, 1421-1425.	2.6	9
44	Engineering <i>Thermus</i> Maltogenic Amylase with Improved Thermostability: Probing the Role of the Conserved Calcium Binding Site in Cyclodextrin-degrading Enzymes. <i>Journal of Applied Glycoscience</i> (1999), 2005, 52, 7-13.	0.7	5
45	Properties of a glycogen like polysaccharide produced by a mutant of <i>Escherichia coli</i> lacking glycogen synthase and maltodextrin phosphorylase. <i>Carbohydrate Polymers</i> , 2016, 136, 649-655.	10.2	5
46	Complex formation of a 4- α -glucanotransferase using starch as a biocatalyst for starch modification. <i>Food Science and Biotechnology</i> , 2017, 26, 1659-1666.	2.6	4
47	pH-promoted O- α -glucosylation of flavonoids using an engineered α -glucosidase mutant. <i>Bioorganic Chemistry</i> , 2021, 107, 104581.	4.1	4
48	Enzymatic biosynthesis of a puerarin-cycloamylose inclusion complex by 4- α -glucanotransferase and maltogenic amylase. <i>Biocatalysis and Biotransformation</i> , 2010, 28, 209-214.	2.0	3
49	Affinity purification of 4- α -glucanotransferase through formation of complex with insoluble amylose. <i>Food Science and Biotechnology</i> , 2015, 24, 1811-1816.	2.6	2
50	Construction of an antimyoglobin single-chain variable fragment with rapid reaction kinetics. <i>Biotechnology and Applied Biochemistry</i> , 2016, 63, 22-30.	3.1	2
51	Combined Cross-Linked Enzyme Aggregates of Monoamine Oxidase and Putrescine Oxidase as a Bifunctional Biocatalyst for Determination of Biogenic Amines in Foods. <i>Catalysts</i> , 2019, 9, 579.	3.5	2
52	Glycosidases and their Mutants as Useful Tools for Glycoside Synthesis. , 2008, , 226-241.		1
53	Characteristics of Archaeal Maltogenic Amylases. , 2008, , 287-299.		0
54	Development of a colorimetric enzymatic assay method for aromatic biogenic monoamine-producing decarboxylases. <i>Food Science and Biotechnology</i> , 2021, 30, 971-977.	2.6	0

#	ARTICLE	IF	CITATIONS
55	Effect of chloride ions on the catalytic properties of human pancreatic α -amylase isozyme produced in <i>Pichia pastoris</i> . Korean Journal of Food Science and Technology, 2016, 48, 341-346.	0.3	0