

Yeong-Su Kim

List of Publications by Year in descending order

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61
papers

1,511
citations

361413

20
h-index

330143

37
g-index

63
all docs

63
docs citations

63
times ranked

1289
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of an <i>Agrobacterium tumefaciens</i> d -Psicose 3-Epimerase That Converts d -Fructose to d -Psicose. <i>Applied and Environmental Microbiology</i> , 2006, 72, 981-985.	3.1	168
2	Lactulose production from lactose and fructose by a thermostable β -galactosidase from <i>Sulfolobus solfataricus</i> . <i>Enzyme and Microbial Technology</i> , 2006, 39, 903-908.	3.2	107
3	Lactulose production from lactose as a single substrate by a thermostable cellobiose 2-epimerase from <i>Caldicellulosiruptor saccharolyticus</i> . <i>Bioresource Technology</i> , 2012, 104, 668-672.	9.6	85
4	Production of 10-hydroxystearic acid from oleic acid by whole cells of recombinant <i>Escherichia coli</i> containing oleate hydratase from <i>Stenotrophomonas maltophilia</i> . <i>Journal of Biotechnology</i> , 2012, 158, 17-23.	3.8	80
5	Increase of lycopene production by supplementing auxiliary carbon sources in metabolically engineered <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 489-497.	3.6	68
6	Hydrolysis of Isoflavone Glycosides by a Thermostable β -Glucosidase from <i>Pyrococcus furiosus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 1535-1541.	5.2	63
7	Characterization of a recombinant β -glucosidase from the thermophilic bacterium <i>Caldicellulosiruptor saccharolyticus</i> . <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, 36-40.	2.2	57
8	Biochemical characterization and FAD-binding analysis of oleate hydratase from <i>Macroccoccus caseolyticus</i> . <i>Biochimie</i> , 2012, 94, 907-915.	2.6	50
9	Production of 10-hydroxystearic acid from oleic acid and olive oil hydrolyzate by an oleate hydratase from <i>Lysinibacillus fusiformis</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 95, 929-937.	3.6	50
10	Characterization of a recombinant cellobiose 2-epimerase from <i>Dictyoglomus turgidum</i> that epimerizes and isomerizes β -1,4- and α -1,4-gluco-oligosaccharides. <i>Biotechnology Letters</i> , 2012, 34, 2061-2068.	2.2	47
11	Borate enhances the production of lactulose from lactose by cellobiose 2-epimerase from <i>Caldicellulosiruptor saccharolyticus</i> . <i>Bioresource Technology</i> , 2013, 128, 809-812.	9.6	42
12	Characterization of a β -glucosidase from <i>Sulfolobus solfataricus</i> for isoflavone glycosides. <i>Biotechnology Letters</i> , 2012, 34, 125-129.	2.2	41
13	Characterization of a GH3 Family β -Glucosidase from <i>Dictyoglomus turgidum</i> and Its Application to the Hydrolysis of Isoflavone Glycosides in Spent Coffee Grounds. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 11812-11818.	5.2	37
14	Substrate specificity of a recombinant chicken β -carotene 15,15- ϵ -monooxygenase that converts β -carotene into retinal. <i>Biotechnology Letters</i> , 2009, 31, 403-408.	2.2	36
15	In Vitro Characterization of a Recombinant Blh Protein from an Uncultured Marine Bacterium as a β -Carotene 15,15- ϵ -Dioxygenase. <i>Journal of Biological Chemistry</i> , 2009, 284, 15781-15793.	3.4	35
16	Characterization of a recombinant thermostable l-rhamnose isomerase from <i>Thermotoga maritima</i> ATCC 43589 and its application in the production of l-lyxose and l-mannose. <i>Biotechnology Letters</i> , 2010, 32, 1947-1953.	2.2	32
17	Characterization of a recombinant mannobiose 2-epimerase from <i>Spirochaeta thermophila</i> that is suggested to be a cellobiose 2-epimerase. <i>Biotechnology Letters</i> , 2013, 35, 1873-1880.	2.2	29
18	Increased d-allose production by the R132E mutant of ribose-5-phosphate isomerase from <i>Clostridium thermocellum</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1859-1866.	3.6	24

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19	Characterization of a recombinant l-rhamnose isomerase from <i>Dictyoglomus turgidum</i> and its application for l-rhamnulose production. <i>Biotechnology Letters</i> , 2013, 35, 259-264.	2.2	23
20	Substrate specificity of a recombinant d-lyxose isomerase from <i>Serratia proteamaculans</i> that produces d-lyxose and d-mannose. <i>Letters in Applied Microbiology</i> , 2010, 51, 343-350.	2.2	21
21	Retinal production from β -carotene by β -carotene 15,15'-dioxygenase from an unculturable marine bacterium. <i>Biotechnology Letters</i> , 2010, 32, 957-961.	2.2	20
22	Characterization of a Mannose-6-Phosphate Isomerase from <i>Thermus thermophilus</i> and Increased α -Ribose Production by Its R142N Mutant. <i>Applied and Environmental Microbiology</i> , 2011, 77, 762-767.	3.1	20
23	β -Glucosidase from <i>Penicillium aculeatum</i> hydrolyzes exo-, 3-O-, and 6-O- β -glucosides but not 20-O- β -glucoside and other glycosides of ginsenosides. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6315-6324.	3.6	20
24	Optimized Formation of Detergent Micelles of β -Carotene and Retinal Production Using Recombinant Human β , β -Carotene 15,15'-Monooxygenase. <i>Biotechnology Progress</i> , 2008, 24, 227-231.	2.6	18
25	Biotransformation of carotenoids to retinal by carotenoid 15,15'-oxygenase. <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 807-816.	3.6	18
26	Characterization of a recombinant thermostable d-lyxose isomerase from <i>Dictyoglomus turgidum</i> that produces d-lyxose from d-xylulose. <i>Biotechnology Letters</i> , 2012, 34, 1079-1085.	2.2	17
27	Effective production of retinal from β -carotene using recombinant mouse β -carotene 15,15'-monooxygenase. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 1339-1345.	3.6	16
28	Differential Selectivity of the <i>Escherichia coli</i> Cell Membrane Shifts the Equilibrium for the Enzyme-Catalyzed Isomerization of Galactose to Tagatose. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2307-2313.	3.1	16
29	Ginsenoside F1 production from ginsenoside Rg1 by a purified β -glucosidase from <i>Fusarium moniliforme</i> var. <i>subglutinans</i> . <i>Biotechnology Letters</i> , 2011, 33, 2457-2461.	2.2	15
30	Characterization of a recombinant endo-1,5- α -l-arabinanase from the isolated bacterium <i>Bacillus licheniformis</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 590-594.	2.6	14
31	Molecular characterization of a thermostable l-fucose isomerase from <i>Dictyoglomus turgidum</i> that isomerizes l-fucose and d-arabinose. <i>Biochimie</i> , 2012, 94, 1926-1934.	2.6	14
32	Development of Novel Sugar Isomerases by Optimization of Active Sites in Phosphosugar Isomerases for Monosaccharides. <i>Applied and Environmental Microbiology</i> , 2013, 79, 982-988.	3.1	14
33	Conversion of Glycosylated Platycoside E to Deapiose-Xylosylated Platycodin D by Cytolase PCL5. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1207.	4.1	14
34	Utilization of the recombinant human β -carotene-15,15'-monooxygenase gene in <i>Escherichia coli</i> and mammalian cells. <i>Biotechnology Letters</i> , 2008, 30, 735-741.	2.2	13
35	Production of β -apo-10'-carotenal from β -carotene by human β -carotene-9',10'-oxygenase expressed in <i>E. coli</i> . <i>Biotechnology Letters</i> , 2011, 33, 1195-1200.	2.2	13
36	Enhancement of retinal production by supplementing the surfactant Span 80 using metabolically engineered <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 461-466.	2.2	13

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37	Effect of high hydrostatic pressure treatment on isoquercetin production from rutin by commercial β -l-rhamnosidase. <i>Biotechnology Letters</i> , 2016, 38, 1775-1780.	2.2	12
38	Roles of Ile66 and Ala107 of d-psicose 3-epimerase from <i>Agrobacterium tumefaciens</i> in binding O6 of its substrate, d-fructose. <i>Biotechnology Letters</i> , 2010, 32, 113-118.	2.2	11
39	Characterization of β -Glycosidase from <i>Caldicellulosiruptor owensensis</i> and Its Application in the Production of Platycodin D from Balloon Flower Leaf. <i>Catalysts</i> , 2019, 9, 1025.	3.5	11
40	Hydrophobicity of residue 108 specifically affects the affinity of human β -carotene 15,15 α -monooxygenase for substrates with two ionone rings. <i>Biotechnology Letters</i> , 2010, 32, 847-853.	2.2	10
41	Substrate specificity of a recombinant ribose-5-phosphate isomerase from <i>Streptococcus pneumoniae</i> and its application in the production of l-xylose and l-tagatose. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 743-750.	3.6	10
42	Production of D-Allose From D-Allulose Using Commercial Immobilized Glucose Isomerase. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 681253.	4.1	10
43	Biogenesis and Lipase-Mediated Mobilization of Lipid Droplets in Plants. <i>Plants</i> , 2022, 11, 1243.	3.5	10
44	Molecular characterization of a novel thermostable mannose-6-phosphate isomerase from <i>Thermus thermophilus</i> . <i>Biochimie</i> , 2011, 93, 1659-1667.	2.6	9
45	Reduction of galactose inhibition via the mutation of β -galactosidase from <i>Caldicellulosiruptor saccharolyticus</i> for lactose hydrolysis. <i>Biotechnology Letters</i> , 2011, 33, 353-358.	2.2	9
46	Characterization of a glycoside hydrolase family 42 β -galactosidase from <i>Deinococcus geothermalis</i> . <i>Biotechnology Letters</i> , 2011, 33, 577-583.	2.2	9
47	l-Arabinose production from sugar beet arabinan by immobilized endo- and exo-arabinanases from <i>Caldicellulosiruptor saccharolyticus</i> in a packed-bed reactor. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 239-241.	2.2	7
48	Phosphate sugar isomerases and their potential for rare sugar bioconversion. <i>Journal of Microbiology</i> , 2020, 58, 725-733.	2.8	7
49	Cloning and characterization of β -l-rhamnosidase from <i>Chloroflexus aurantiacus</i> and its application in the production of isoquercitrin from rutin. <i>Biotechnology Letters</i> , 2019, 41, 419-426.	2.2	6
50	Characterization of an apo-carotenoid 13,14-dioxygenase from <i>Novosphingobium aromaticivorans</i> that converts β -apo-8 α -carotenal to β -apo-13-carotenone. <i>Biotechnology Letters</i> , 2012, 34, 1851-1856.	2.2	5
51	Hydrolysis of the outer β -(1,2)-d-glucose linkage at the C-3 position of ginsenosides by a commercial β -galactosidase and its use in the production of minor ginsenosides. <i>Biocatalysis and Biotransformation</i> , 2019, 37, 53-58.	2.0	5
52	Production of l-rhamnulose, a rare sugar, from l-rhamnose using commercial immobilized glucose isomerase. <i>Biocatalysis and Biotransformation</i> , 2018, 36, 417-421.	2.0	4
53	Bakkenolides and Caffeoylquinic Acids from the Aerial Portion of <i>Petasites japonicus</i> and Their Bacterial Neuraminidase Inhibition Ability. <i>Biomolecules</i> , 2020, 10, 888.	4.0	4
54	Improved Production of Deglycosylated Platycodin D from Saponins from Balloon Flower Leaf by a Food-Grade Enzyme Using High Hydrostatic Pressure. <i>Heliyon</i> , 2021, 7, e08104.	3.2	4

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55	Quantitative Determination of Marker Compounds in the Extracts of <i>Camellia sinensis</i> L. Sub-branches (Residual Products) by HPLC. <i>Korean Journal of Medicinal Crop Science</i> , 2019, 27, 24-29.	0.4	4
56	Characterization of l-Arabinose Isomerase from <i>Klebsiella pneumoniae</i> and Its Application in the Production of d-Tagatose from d-Galactose. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4696.	2.5	3
57	Discovery and Characterization of Chemical Compounds That Inhibit the Function of Bacterial Neuraminidase from <i>Codonopsis ussuriensis</i> . <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6254.	2.5	3
58	Improved Biotransformation of Platycoside E into Deapiose-Xylosylated Platycodin D by Cytolase PCL5 under High Hydrostatic Pressure. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10623.	2.5	1
59	Production of Daidzein and Genistein from Seed and Root Extracts of Korean Wild Soybean (<i>Glycine</i>) Tj ETQq1 1 0.784314 rgBT /Over 2022, 12, 3481.	2.5	1
60	d-Allulose Production from d-fructose by Putative Dolichol Phosphate Mannose Synthase from <i>Bacillus</i> sp. with Potential d-allulose 3-epimerase Activity. <i>Biotechnology and Bioprocess Engineering</i> , 2021, 26, 976-984.	2.6	1
61	Molecular Properties of β -Carotene Oxygenases and Their Potential in Industrial Production of Vitamin A and Its Derivatives. <i>Antioxidants</i> , 2022, 11, 1180.	5.1	1