

Yeong-Su Kim

List of Publications by Year in descending order

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61
papers

1,511
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411340

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docs citations

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1432
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| # | 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. | 1.4 | 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. | 1.6 | 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. | 4.8 | 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. | 1.9 | 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. | 1.7 | 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. | 2.4 | 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. | 1.1 | 57 |
| 8 | Biochemical characterization and FAD-binding analysis of oleate hydratase from <i>Macrococcus caseolyticus</i> . <i>Biochimie</i> , 2012, 94, 907-915. | 1.3 | 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. | 1.7 | 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. | 1.1 | 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. | 4.8 | 42 |
| 12 | Characterization of a β -glucosidase from <i>Sulfolobus solfataricus</i> for isoflavone glycosides. <i>Biotechnology Letters</i> , 2012, 34, 125-129. | 1.1 | 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. | 2.4 | 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. | 1.1 | 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. | 1.6 | 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. | 1.1 | 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. | 1.1 | 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. | 1.7 | 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. | 1.1 | 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. | 1.0 | 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. | 1.1 | 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. | 1.4 | 20 |
| 23 | β -Glucosidase from <i>Penicillium aculeatum</i> hydrolyzes exo-, 3-O-, and 6-O- β -glucosides but not 2-O- β -glucoside and other glycosides of ginsenosides. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6315-6324. | 1.7 | 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. | 1.3 | 18 |
| 25 | Biotransformation of carotenoids to retinal by carotenoid 15,15'-oxygenase. <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 807-816. | 1.7 | 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. | 1.1 | 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. | 1.7 | 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. | 1.4 | 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. | 1.1 | 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. | 1.4 | 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. | 1.3 | 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. | 1.4 | 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. | 1.8 | 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. | 1.1 | 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. | 1.1 | 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. | 1.1 | 13 |

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|----|--|-----|-----------|
| 37 | Effect of high hydrostatic pressure treatment on isoquercetin production from rutin by commercial α -L-rhamnosidase. <i>Biotechnology Letters</i> , 2016, 38, 1775-1780. | 1.1 | 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. | 1.1 | 11 |
| 39 | Characterization of α -Galactosidase from <i>Caldicellulosiruptor owensensis</i> and Its Application in the Production of Platycodin D from Balloon Flower Leaf. <i>Catalysts</i> , 2019, 9, 1025. | 1.6 | 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. | 1.1 | 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. | 1.7 | 10 |
| 42 | Production of D-Allose From D-Allulose Using Commercial Immobilized Glucose Isomerase. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 681253. | 2.0 | 10 |
| 43 | Biogenesis and Lipase-Mediated Mobilization of Lipid Droplets in Plants. <i>Plants</i> , 2022, 11, 1243. | 1.6 | 10 |
| 44 | Molecular characterization of a novel thermostable mannose-6-phosphate isomerase from <i>Thermus thermophilus</i> . <i>Biochimie</i> , 2011, 93, 1659-1667. | 1.3 | 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. | 1.1 | 9 |
| 46 | Characterization of a glycoside hydrolase family 42 β -galactosidase from <i>Deinococcus geothermalis</i> . <i>Biotechnology Letters</i> , 2011, 33, 577-583. | 1.1 | 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. | 1.1 | 7 |
| 48 | Phosphate sugar isomerases and their potential for rare sugar bioconversion. <i>Journal of Microbiology</i> , 2020, 58, 725-733. | 1.3 | 7 |
| 49 | Cloning and characterization of α -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. | 1.1 | 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. | 1.1 | 5 |
| 51 | Hydrolysis of the outer β -(1,2)- α -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. | 1.1 | 5 |
| 52 | Production of α -rhamnulose, a rare sugar, from α -rhamnose using commercial immobilized glucose isomerase. <i>Biocatalysis and Biotransformation</i> , 2018, 36, 417-421. | 1.1 | 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. | 1.8 | 4 |
| 54 | Improved Production of Deglycosylated Platycodin D from Saponins from Balloon Flower Leaf by a Food-Grade Enzyme Using High Hydrostatic Pressure. <i>Helvion</i> , 2021, 7, e08104. | 1.4 | 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. | 0.1 | 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. | 1.3 | 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. | 1.3 | 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. | 1.3 | 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. | 1.3 | 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. | 1.4 | 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. | 2.2 | 1 |