

Deok-Kun Oh

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5691601/deok-kun-oh-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

192
papers

4,307
citations

34
h-index

54
g-index

200
ext. papers

4,882
ext. citations

4.9
avg, IF

5.98
L-index

#	Paper	IF	Citations
192	The DPA-derivative 11S, 17S-dihydroxy 7,9,13,15,19 (Z,E,Z,E,Z)-docosapentaenoic acid inhibits IL-6 production by inhibiting ROS production and ERK/NF- κ B pathway in keratinocytes HaCaT stimulated with a fine dust PM.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 232, 113252	7	0
191	Highly efficient oxidation of plant oils to C18 trihydroxy fatty acids by Escherichia coli co-expressing lipoxygenase and epoxide hydrolase. <i>Green Chemistry</i> , 2022 , 24, 2062-2072	10	1
190	Production of Deglucose-Apiose-Xylosylated Platycosides from Glycosylated Platycosides by Crude Enzyme from .. <i>Journal of Microbiology and Biotechnology</i> , 2022 , 32, 1-8	3.3	1
189	Production of Daidzein and Genistein from Seed and Root Extracts of Korean Wild Soybean (Glycine soja) by Thermostable β -Galactosidase from Thermoproteus uzoniensis. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3481	2.6	
188	Production of 11 R -hydroxyeicosatetraenoic acid from arachidonic acid by Escherichia coli cells expressing arachidonate 11 R -lipoxygenase from Nostoc sp.. <i>JAOCs, Journal of the American Oil Chemists Society</i> , 2022 , 99, 289-297	1.8	0
187	Production of 8,11-dihydroxy fatty acids from oleic and palmitoleic acids by Escherichia coli cells expressing variant 6,8-linoleate diol synthases from Penicillium oxalicum.. <i>Biotechnology Progress</i> , 2022 , e3267	2.8	0
186	Regioselectivity of an arachidonate 9S-lipoxygenase from Sphingopyxis macrogoltabida that biosynthesizes 9S,15S- and 11S,17S-dihydroxy fatty acids from C20 and C22 polyunsaturated fatty acids.. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021 , 1867, 159091	5	0
185	Complete Bioconversion of Protopanaxadiol-Type Ginsenosides to Compound K by Extracellular Enzymes from the Isolated Strain. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 315-324	5.7	7
184	Production of Bioactive Deapiosylated Platycosides from Glycosylated Platycosides in Balloon Flower Root Using the Crude Enzyme from the Food-Available Fungus. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 4766-4777	5.7	2
183	Biocatalytic synthesis of dihydroxy fatty acids as lipid mediators from polyunsaturated fatty acids by double dioxygenation of the microbial 12S-lipoxygenase. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 3094-3104	4.9	2
182	An integrative approach to improving the biocatalytic reactions of whole cells expressing recombinant enzymes. <i>World Journal of Microbiology and Biotechnology</i> , 2021 , 37, 105	4.4	1
181	Improved Bioactivity of 3-O- β -D-Glucopyranosyl Platycosides in Biotransformed Root Extract by Pectinase from. <i>Journal of Microbiology and Biotechnology</i> , 2021 , 31, 847-854	3.3	1
180	Molecular insights into lipoxygenases for biocatalytic synthesis of diverse lipid mediators. <i>Progress in Lipid Research</i> , 2021 , 83, 101110	14.3	11
179	Chemoenzymatic Cascade Conversion of Linoleic Acid into a Secondary Fatty Alcohol Using a Combination of 13S-Lipoxygenase, Chemical Reduction, and a Photo-Activated Decarboxylase. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10837-10845	8.3	2
178	Bioconversion of arachidonic acid into human 14,15-hepoxilin B and 13,14,15-trioxilin B by recombinant cells expressing microbial 15-lipoxygenase without and with epoxide hydrolase. <i>Biotechnology Letters</i> , 2020 , 42, 2001-2009	3	2
177	Bakkenolides and Caffeoylquinic Acids from the Aerial Portion of and Their Bacterial Neuraminidase Inhibition Ability. <i>Biomolecules</i> , 2020 , 10,	5.9	1
176	Conversion of Glycosylated Platycoside E to Deapiose-Xylosylated Platycodin D by Cytolase PCL5. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10

175	Whole-Cell Photoenzymatic Cascades to Synthesize Long-Chain Aliphatic Amines and Esters from Renewable Fatty Acids. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7024-7028	16.4	34
174	Multilayer Engineering of Enzyme Cascade Catalysis for One-Pot Preparation of Nylon Monomers from Renewable Fatty Acids. <i>ACS Catalysis</i> , 2020 , 10, 4871-4878	13.1	18
173	Resolvin D5, a Lipid Mediator, Inhibits Production of Interleukin-6 and CCL5 Via the ERK-NF- κ B Signaling Pathway in Lipopolysaccharide-Stimulated THP-1 Cells. <i>Journal of Microbiology and Biotechnology</i> , 2020 , 30, 85-92	3.3	2
172	Biotransformation of Glycosylated Saponins in Balloon Flower Root Extract into 3- β -D-Glucopyranosyl Platycosides by Deglycosylation of Pectinase from. <i>Journal of Microbiology and Biotechnology</i> , 2020 , 30, 946-954	3.3	6
171	Biotransformation of Protopanaxadiol-Type Ginsenosides in Korean Ginseng Extract into Food-Available Compound K by an Extracellular Enzyme from. <i>Journal of Microbiology and Biotechnology</i> , 2020 , 30, 1560-1567	3.3	8
170	Design and engineering of whole-cell biocatalytic cascades for the valorization of fatty acids. <i>Catalysis Science and Technology</i> , 2020 , 10, 46-64	5.5	26
169	Fructuronate-tagaturonate epimerase UxaE from <i>Cohnella laeviribosi</i> has a versatile TIM-barrel scaffold suitable for a sugar metabolizing biocatalyst. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 1369-1374	7.9	1
168	Development of Tagaturonate 3-Epimerase into Tagatose 4-Epimerase with a Biocatalytic Route from Fructose to Tagatose. <i>ACS Catalysis</i> , 2020 , 10, 12212-12222	13.1	2
167	Discovery and Engineering of a Microbial Double-Oxygenating Lipoyxygenase for Synthesis of Dihydroxy Fatty Acids as Specialized Proresolving Mediators. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16172-16183	8.3	9
166	Increased Production of β -Hydroxynonanoic Acid and β -Nonanedioic Acid from Olive Oil by a Constructed Biocatalytic System. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 9488-9495	5.7	6
165	Construction of an engineered biocatalyst system for the production of medium-chain β -dicarboxylic acids from medium-chain β -hydroxycarboxylic acids. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 2648-2657	4.9	5
164	Enzymatic Biotransformation of Balloon Flower Root Saponins into Bioactive Platycodin D by Deglycosylation with β -Glucosidase. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	13
163	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	3	2
162	Production of 6,8-Dihydroxy Fatty Acids by Recombinant <i>Escherichia coli</i> Expressing T879A Variant 6,8-Linoleate Diol Synthase from <i>Penicillium oxalicum</i> . <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2019 , 96, 663-669	1.8	1
161	Enzymatic synthesis of new hepoxilins and trioxilins from polyunsaturated fatty acids. <i>Green Chemistry</i> , 2019 , 21, 3172-3181	10	9
160	Microbial Synthesis of Linoleate 9 S-Lipoxygenase Derived Plant C18 Oxylinins from C18 Polyunsaturated Fatty Acids. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 3209-3219	5.7	8
159	Production of 8S- and 10S-hydroxy polyunsaturated fatty acids by recombinant <i>Escherichia coli</i> cells expressing mouse arachidonate 8S-lipoxygenase. <i>Biotechnology Letters</i> , 2019 , 41, 575-582	3	3
158	Complete Biotransformation of Protopanaxadiol-Type Ginsenosides into 20- β -Glucopyranosyl-20()-protopanaxadiol by Permeabilized Recombinant Cells Coexpressing β -Glucosidase and Chaperone Genes. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 8393-8401	5.7	9

157	Biotransformation of Food-Derived Saponins, Platycosides, into Deglucosylated Saponins Including Deglucosylated Platycodin D and Their Anti-Inflammatory Activities. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 1470-1477	5.7	21
156	Molecular characterization of <i>Penicillium oxalicum</i> 6R,8R-linoleate diol synthase with new regiospecificity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019 , 1864, 577-586	5	3
155	Complete Biotransformation of Protopanaxadiol-Type Ginsenosides to 20- O- β -Glucopyranosyl-20(S)-protopanaxadiol Using a Novel and Thermostable β -Glucosidase. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 2822-2829	5.7	20
154	Biotransformation of polyunsaturated fatty acids to bioactive hepoxilins and trioxilins by microbial enzymes. <i>Nature Communications</i> , 2018 , 9, 128	17.4	18
153	Regiospecificity of a novel bacterial lipoxygenase from <i>Myxococcus xanthus</i> for polyunsaturated fatty acids. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018 , 1863, 823-833	5	19
152	PKC δ is a target of 7,8,4-trihydroxyisoflavone for the suppression of UVB-induced MMP-1 expression. <i>Experimental Dermatology</i> , 2018 , 27, 449-452	4	6
151	Complete conversion of all typical glycosylated protopanaxatriol ginsenosides to aglycon protopanaxatriol by combined bacterial β -glycosidases. <i>AMB Express</i> , 2018 , 8, 8	4.1	3
150	An L213A variant of β -glycosidase from <i>Sulfolobus solfataricus</i> with increased β -L-arabinofuranosidase activity converts ginsenoside R _c to compound K. <i>PLoS ONE</i> , 2018 , 13, e0191018	3.7	9
149	Biotransformation of Fructose to Allose by a One-Pot Reaction Using α -Allulose 3-Epimerase and Ribose 5-Phosphate Isomerase. <i>Journal of Microbiology and Biotechnology</i> , 2018 , 28, 418-424	3.3	11
148	Complete Biotransformation of Protopanaxatriol-Type Ginsenosides in Leaf Extract to Aglycon Protopanaxatriol by β -Glycosidases from and. <i>Journal of Microbiology and Biotechnology</i> , 2018 , 28, 255-261	3.3	1
147	Characterization of L-rhamnose isomerase from <i>Clostridium stercorarium</i> and its application to the production of D-allose from D-allulose (D-psicose). <i>Biotechnology Letters</i> , 2018 , 40, 325-334	3	8
146	Stabilization and improved activity of arachidonate 11-lipoxygenase from proteobacterium. <i>Journal of Lipid Research</i> , 2018 , 59, 2153-2163	6.3	9
145	Enhanced Production of β -D-glycosidase and β -L-arabinofuranosidase in Recombinant <i>Escherichia coli</i> in Fed-batch Culture for the Biotransformation of Ginseng Leaf Extract to Ginsenoside Compound K. <i>Biotechnology and Bioprocess Engineering</i> , 2018 , 23, 183-193	3.1	8
144	Production of 8,11-dihydroxy and 8-hydroxy unsaturated fatty acids from unsaturated fatty acids by recombinant <i>Escherichia coli</i> expressing 8,11-linoleate diol synthase from <i>Penicillium chrysogenum</i> . <i>Biotechnology Progress</i> , 2017 , 33, 390-396	2.8	5
143	Comparison of Biochemical Properties of the Original and Newly Identified Oleate Hydratases from <i>Stenotrophomonas maltophilia</i> . <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	17
142	High-yield production of pure tagatose from fructose by a three-step enzymatic cascade reaction. <i>Biotechnology Letters</i> , 2017 , 39, 1141-1148	3	9
141	Prostaglandin synthases: Molecular characterization and involvement in prostaglandin biosynthesis. <i>Progress in Lipid Research</i> , 2017 , 66, 50-68	14.3	47
140	The Ginsenoside Derivative 20(S)-Protopanaxadiol Inhibits Solar Ultraviolet Light-Induced Matrix Metalloproteinase-1 Expression. <i>Journal of Cellular Biochemistry</i> , 2017 , 118, 3756-3764	4.7	9

139	Improved conversion of ginsenoside Rb to compound K by semi-rational design of <i>Sulfolobus solfataricus</i> β -glycosidase. <i>AMB Express</i> , 2017 , 7, 186	4.1	10
138	Synergistic production of 20(S)-protopanaxadiol from protopanaxadiol-type ginsenosides by β -glycosidases from <i>Dictyoglomus turgidum</i> and <i>Caldicellulosiruptor bescii</i> . <i>AMB Express</i> , 2017 , 7, 219	4.1	1
137	Crystal structures of an atypical aldehyde dehydrogenase having bidirectional oxidizing and reducing activities. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 816-824	7.9	5
136	Structure-based prediction and identification of 4-epimerization activity of phosphate sugars in class II aldolases. <i>Scientific Reports</i> , 2017 , 7, 1934	4.9	6
135	Gene cloning of an efficiency oleate hydratase from <i>Stenotrophomonas nitritireducens</i> for polyunsaturated fatty acids and its application in the conversion of plant oils to 10-hydroxy fatty acids. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 74-82	4.9	14
134	Production of 10S-hydroxy-8(E)-octadecenoic acid from oleic acid by whole recombinant <i>Escherichia coli</i> cells expressing 10S-dioxygenase from <i>Nostoc punctiforme</i> PCC 73102 with the aid of a chaperone. <i>Biotechnology Letters</i> , 2017 , 39, 133-139	3	4
133	Complete genome sequence of <i>Stenotrophomonas</i> sp. KACC 91585, an efficient bacterium for unsaturated fatty acid hydration. <i>Journal of Biotechnology</i> , 2017 , 241, 108-111	3.7	1
132	Biotransformation of fatty acid-rich tree oil hydrolysates to hydroxy fatty acid-rich hydrolysates by hydroxylases and their feasibility as biosurfactants. <i>Biotechnology and Bioprocess Engineering</i> , 2017 , 22, 709-716	3.1	3
131	Production of d-psicose from d-fructose by whole recombinant cells with high-level expression of d-psicose 3-epimerase from <i>Agrobacterium tumefaciens</i> . <i>Journal of Bioscience and Bioengineering</i> , 2016 , 121, 186-90	3.3	26
130	Production of 7,8-Dihydroxy Unsaturated Fatty Acids from Plant Oils by Whole Recombinant Cells Expressing 7,8-Linoleate Diol Synthase from <i>Glomerella cingulata</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 8555-8562	5.7	5
129	Increased Production of Food-Grade d-Tagatose from d-Galactose by Permeabilized and Immobilized Cells of <i>Corynebacterium glutamicum</i> , a GRAS Host, Expressing d-Galactose Isomerase from <i>Geobacillus thermodenitrificans</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 8146-8153	5.7	24
128	Characterization of a recombinant 7,8-linoleate diol synthase from <i>Glomerella cingulate</i> . <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 3087-99	5.7	8
127	Production of β -Decalactone from linoleic acid via 13-hydroxy-9(Z)-octadecenoic acid intermediate by one-pot reaction using linoleate 13-hydratase and whole <i>Yarrowia lipolytica</i> cells. <i>Biotechnology Letters</i> , 2016 , 38, 817-23	3	11
126	Production of 10R-hydroxy unsaturated fatty acids from hempseed oil hydrolyzate by recombinant <i>Escherichia coli</i> cells expressing PpoC from <i>Aspergillus nidulans</i> . <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 7933-44	5.7	3
125	Promotion of adipogenesis by 15-(S)-hydroxyeicosatetraenoic acid. <i>Prostaglandins and Other Lipid Mediators</i> , 2016 , 123, 1-8	3.7	13
124	13-Hydroxy-9Z,15Z-Octadecadienoic Acid Production by Recombinant Cells Expressing <i>Lactobacillus acidophilus</i> 13-Hydratase. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2016 , 93, 649-655	1.8	5
123	Characterization of a novel 8R,11S-linoleate diol synthase from <i>Penicillium chrysogenum</i> by identification of its enzymatic products. <i>Journal of Lipid Research</i> , 2016 , 57, 207-18	6.3	14
122	Classification of glycosidases that hydrolyze the specific positions and types of sugar moieties in ginsenosides. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 1036-1049	9.4	38

121	D-Allulose Production from D-Fructose by Permeabilized Recombinant Cells of <i>Corynebacterium glutamicum</i> Cells Expressing D-Allulose 3-Epimerase Flavonifractor plautii. <i>PLoS ONE</i> , 2016 , 11, e0160044	3.7	27
120	Crystallographic snapshots of active site metal shift in <i>E. coli</i> fructose 1,6-bisphosphate aldolase. <i>BMB Reports</i> , 2016 , 49, 681-686	5.5	5
119	Alternative Biotransformation of Retinal to Retinoic Acid or Retinol by an Aldehyde Dehydrogenase from <i>Bacillus cereus</i> . <i>Applied and Environmental Microbiology</i> , 2016 , 82, 3940-3946	4.8	12
118	Simultaneous Enzyme/Whole-Cell Biotransformation of Plant Oils into C9 Carboxylic Acids. <i>ACS Catalysis</i> , 2016 , 6, 7547-7553	13.1	50
117	Characterization of alcohol dehydrogenase from <i>Kangiella koreensis</i> and its application to production of all-trans-retinol. <i>Biotechnology Letters</i> , 2015 , 37, 849-56	3	6
116	5,8-Dihydroxy-9,12,15(Z,Z,Z)-Octadecatrienoic Acid Production by Recombinant Cells Expressing <i>Aspergillus nidulans</i> Diol Synthase. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2015 , 92, 193-202	1.8	4
115	Substrate specificity of β -glucosidase from <i>Gordonia terrae</i> for ginsenosides and its application in the production of ginsenosides Rg ₁ and Rh ₁ from ginseng root extract. <i>Journal of Bioscience and Bioengineering</i> , 2015 , 119, 497-504	3.3	12
114	Characterization of an omega-6 linoleate lipoxygenase from <i>Burkholderia thailandensis</i> and its application in the production of 13-hydroxyoctadecadienoic acid. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 5487-97	5.7	17
113	An amino acid at position 512 in β -glucosidase from <i>Clavibacter michiganensis</i> determines the regioselectivity for hydrolyzing gypenoside XVII. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 7987-96	5.7	0
112	13-Hydroxy-9Z,11E-Octadecadienoic Acid Production by Recombinant Cells Expressing <i>Burkholderia thailandensis</i> 13-Lipoxygenase. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2015 , 92, 1259-1266	1.8	10
111	Production of 10-hydroxy-12,15(Z,Z)-octadecadienoic acid from α -linolenic acid by permeabilized <i>Stenotrophomonas nitritireducens</i> cells. <i>Biotechnology Letters</i> , 2015 , 37, 2271-7	3	7
110	Biochemical properties of retinoid-converting enzymes and biotechnological production of retinoids. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 7813-26	5.7	10
109	Unveiling of novel regio-selective fatty acid double bond hydratases from <i>Lactobacillus acidophilus</i> involved in the selective oxyfunctionalization of mono- and di-hydroxy fatty acids. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2206-13	4.9	27
108	Selective Production of 9R-Hydroxy-10E,12Z,15Z-Octadecatrienoic Acid from α -Linolenic Acid in <i>Perilla</i> Seed Oil Hydrolyzate by a Lipoxygenase from <i>Nostoc</i> Sp. SAG 25.82. <i>PLoS ONE</i> , 2015 , 10, e0137783	3.7	11
107	Microbial synthesis of plant oxylipins from α -linolenic acid through designed biotransformation pathways. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 2773-81	5.7	28
106	Production of 13S-hydroxy-9(Z)-octadecenoic acid from linoleic acid by whole recombinant cells expressing linoleate 13-hydratase from <i>Lactobacillus acidophilus</i> . <i>Journal of Biotechnology</i> , 2015 , 208, 1-10	3.7	26
105	20-O- β -D-glucopyranosyl-20(S)-protopanaxadiol, a metabolite of ginsenoside Rb ₁ , enhances the production of hyaluronic acid through the activation of ERK and Akt mediated by Src tyrosin kinase in human keratinocytes. <i>International Journal of Molecular Medicine</i> , 2015 , 35, 1388-94	4.4	19
104	Production of 8-hydroxy-9,12(Z,Z)-octadecadienoic acid from linoleic acid by recombinant cells expressing H1004A-C1006S variant of <i>Aspergillus nidulans</i> diol synthase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 115, 35-42		8

103	Production of 5,8-dihydroxy-9(Z)-octadecenoic acid from oleic acid by whole recombinant cells of <i>Aspergillus nidulans</i> expressing diol synthase. <i>Biotechnology Letters</i> , 2015 , 37, 131-7	3	3
102	Biotransformation of Linoleic Acid into Hydroxy Fatty Acids and Carboxylic Acids Using a Linoleate Double Bond Hydratase as Key Enzyme. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 408-416	5.6	53
101	Compound K Production from Red Ginseng Extract by β -Glycosidase from <i>Sulfolobus solfataricus</i> Supplemented with β -L-Arabinofuranosidase from <i>Caldicellulosiruptor saccharolyticus</i> . <i>PLoS ONE</i> , 2015 , 10, e0145876	3.7	26
100	15-Hydroxyeicosatetraenoic Acid Inhibits Phorbol-12-Myristate-13-Acetate-Induced MUC5AC Expression in NCI-H292 Respiratory Epithelial Cells. <i>Journal of Microbiology and Biotechnology</i> , 2015 , 25, 589-97	3.3	8
99	Highly selective hydrolysis for the outer glucose at the C-20 position in ginsenosides by β -glucosidase from <i>Thermus thermophilus</i> and its application to the production of ginsenoside F2 from gypenoside XVII. <i>Biotechnology Letters</i> , 2014 , 36, 1287-93	3	8
98	L-Ribose production from L-arabinose by immobilized recombinant <i>Escherichia coli</i> co-expressing the L-arabinose isomerase and mannose-6-phosphate isomerase genes from <i>Geobacillus thermodenitrificans</i> . <i>Applied Biochemistry and Biotechnology</i> , 2014 , 172, 275-88	3.2	16
97	Characterization of a novel recombinant β -glucosidase from <i>Sphingopyxis alaskensis</i> that specifically hydrolyzes the outer glucose at the C-3 position in protopanaxadiol-type ginsenosides. <i>Journal of Biotechnology</i> , 2014 , 172, 30-7	3.7	26
96	Molecular characterization of an aldo-keto reductase from <i>Marivirga tractuosa</i> that converts retinal to retinol. <i>Journal of Biotechnology</i> , 2014 , 169, 23-33	3.7	6
95	RNA aptamer-conjugated liposome as an efficient anticancer drug delivery vehicle targeting cancer cells in vivo. <i>Journal of Controlled Release</i> , 2014 , 196, 234-42	11.7	102
94	Production of aglycone protopanaxatriol from ginseng root extract using <i>Dictyoglomus turgidum</i> β -glycosidase that specifically hydrolyzes the xylose at the C-6 position and the glucose in protopanaxatriol-type ginsenosides. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 3659-67	5.7	11
93	Production of 5,8-dihydroxy-9,12(Z,Z)-octadecadienoic acid from linoleic acid by whole recombinant <i>Escherichia coli</i> cells expressing diol synthase from <i>Aspergillus nidulans</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 7447-56	5.7	23
92	Characterization of a F280N variant of L-arabinose isomerase from <i>Geobacillus thermodenitrificans</i> identified as a D-galactose isomerase. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 9271-81	5.7	22
91	Characterization of β -xylosidase from <i>Thermoanaerobacterium thermosaccharolyticum</i> and its application to the production of ginsenosides Rg1 and Rh 1 from notoginsenosides R 1 and R 2. <i>Biotechnology Letters</i> , 2014 , 36, 2275-81	3	11
90	Stereospecific production of 9R-hydroxy-10E,12Z-octadecadienoic acid from linoleic acid by recombinant <i>Escherichia coli</i> cells expressing 9R-lipoxygenase from <i>Nostoc</i> sp. SAG 25.82. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 104, 56-63		7
89	Production of ginsenosides Rg1 and Rh1 by hydrolyzing the outer glycoside at the C-6 position in protopanaxatriol-type ginsenosides using β -glucosidase from <i>Pyrococcus furiosus</i> . <i>Biotechnology Letters</i> , 2014 , 36, 113-9	3	10
88	Enzymatic production of 15-hydroxyeicosatetraenoic acid from arachidonic acid by using soybean lipoxygenase. <i>Journal of Microbiology and Biotechnology</i> , 2014 , 24, 359-62	3.3	7
87	Production of hydroxy fatty acids by microbial fatty acid-hydroxylation enzymes. <i>Biotechnology Advances</i> , 2013 , 31, 1473-85	17.8	117
86	Production of 10-hydroxy-12,15(Z,Z)-octadecadienoic acid from β -linolenic acid by permeabilized cells of recombinant <i>Escherichia coli</i> expressing the oleate hydratase gene of <i>Stenotrophomonas maltophilia</i> . <i>Biotechnology Letters</i> , 2013 , 35, 1487-93	3	13

85	Increased production of δ -lactones from hydroxy fatty acids by whole <i>Waltomyces lipofer</i> cells induced with oleic acid. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 8265-72	5.7	17
84	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, 6315-24	5.7	16
83	Borate enhances the production of lactulose from lactose by cellobiose 2-epimerase from <i>Caldicellulosiruptor saccharolyticus</i> . <i>Bioresource Technology</i> , 2013 , 128, 809-12	11	36
82	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, 259-64	3	15
81	Increase in the production of β -carotene in recombinant <i>Escherichia coli</i> cultured in a chemically defined medium supplemented with amino acids. <i>Biotechnology Letters</i> , 2013 , 35, 265-71	3	26
80	Complete conversion of major protopanaxadiol ginsenosides to compound K by the combined use of β -L-arabinofuranosidase and β -galactosidase from <i>Caldicellulosiruptor saccharolyticus</i> and β -glucosidase from <i>Sulfolobus acidocaldarius</i> . <i>Journal of Biotechnology</i> , 2013 , 167, 33-40	3.7	16
79	Multistep enzymatic synthesis of long-chain ω -dicarboxylic and ω -hydroxycarboxylic acids from renewable fatty acids and plant oils. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2534-7	16.4	163
78	Production of a novel compound, 10,12-dihydroxystearic acid from ricinoleic acid by an oleate hydratase from <i>Lysinibacillus fusiformis</i> . <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 8987-95	5.7	20
77	Hydrolysis of flavanone glycosides by β -glucosidase from <i>Pyrococcus furiosus</i> and its application to the production of flavanone aglycones from citrus extracts. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 11532-40	5.7	25
76	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, 1873-80	3	24
75	New biotransformation process for production of the fragrant compound δ -dodecalactone from 10-hydroxystearate by permeabilized <i>Waltomyces lipofer</i> cells. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 2636-41	4.8	32
74	Multistep Enzymatic Synthesis of Long-Chain ω -Dicarboxylic and ω -Hydroxycarboxylic Acids from Renewable Fatty Acids and Plant Oils. <i>Angewandte Chemie</i> , 2013 , 125, 2594-2597	3.6	40
73	Production of ginsenoside Rd from ginsenoside Rc by β -L-arabinofuranosidase from <i>Caldicellulosiruptor saccharolyticus</i> . <i>Journal of Microbiology and Biotechnology</i> , 2013 , 23, 483-8	3.3	8
72	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, 239-41	3.3	7
71	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, 461-6	3.3	12
70	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, 668-72	11	74
69	Bioprocess engineering to produce 10-hydroxystearic acid from oleic acid by recombinant <i>Escherichia coli</i> expressing the oleate hydratase gene of <i>Stenotrophomonas maltophilia</i> . <i>Process Biochemistry</i> , 2012 , 47, 941-947	4.8	44
68	Characterization of a β -glucosidase from <i>Sulfolobus solfataricus</i> for isoflavone glycosides. <i>Biotechnology Letters</i> , 2012 , 34, 125-9	3	36

67	Quercetin production from rutin by a thermostable β -rutosidase from <i>Pyrococcus furiosus</i> . <i>Biotechnology Letters</i> , 2012 , 34, 483-9	3	13
66	Production of rare ginsenosides (compound Mc, compound Y and aglycon protopanaxadiol) by β -glucosidase from <i>Dictyoglomus turgidum</i> that hydrolyzes linked, but not linked, sugars in ginsenosides. <i>Biotechnology Letters</i> , 2012 , 34, 1679-86	3	15
65	Characterization of an apo-carotenoid 13,14-dioxygenase from <i>Novosphingobium aromaticivorans</i> that converts β -apo-8'-carotenal to β -apo-13-carotenone. <i>Biotechnology Letters</i> , 2012 , 34, 1851-6	3	5
64	Characterization of a recombinant cellobiose 2-epimerase from <i>Dictyoglomus turgidum</i> that epimerizes and isomerizes β -1,4- and β -1,4-gluco-oligosaccharides. <i>Biotechnology Letters</i> , 2012 , 34, 2061-8	3	40
63	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	3.7	75
62	Hydrolysis of isoflavone glycosides by a thermostable β -glucosidase from <i>Pyrococcus furiosus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 1535-41	5.7	47
61	Biochemical characterization and FAD-binding analysis of oleate hydratase from <i>Macrococcus caseolyticus</i> . <i>Biochimie</i> , 2012 , 94, 907-15	4.6	48
60	Lipoxygenases: potential starting biocatalysts for the synthesis of signaling compounds. <i>Biotechnology Advances</i> , 2012 , 30, 1524-32	17.8	85
59	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, 929-37	5.7	48
58	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, 1079-85	3	14
57	Molecular characterization of a novel thermostable mannose-6-phosphate isomerase from <i>Thermus thermophilus</i> . <i>Biochimie</i> , 2011 , 93, 1659-67	4.6	6
56	Reduction of galactose inhibition via the mutation of β -galactosidase from <i>Caldicellulosiruptor saccharolyticus</i> for lactose hydrolysis. <i>Biotechnology Letters</i> , 2011 , 33, 353-8	3	8
55	Characterization of a glycoside hydrolase family 42 β -galactosidase from <i>Deinococcus geothermalis</i> . <i>Biotechnology Letters</i> , 2011 , 33, 577-83	3	9
54	Conversion of oleic acid to 10-hydroxystearic acid by whole cells of <i>Stenotrophomonas nitritireducens</i> . <i>Biotechnology Letters</i> , 2011 , 33, 993-7	3	28
53	Production of β -apo-10'-carotenal from β -carotene by human β -carotene-9 β -10 β -oxygenase expressed in <i>E. coli</i> . <i>Biotechnology Letters</i> , 2011 , 33, 1195-200	3	12
52	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, 2457-61	3	13
51	Substrate specificity of a recombinant ribose-5-phosphate isomerase from <i>Streptococcus pneumoniae</i> and its application in the production of l-lyxose and l-tagatose. <i>World Journal of Microbiology and Biotechnology</i> , 2011 , 27, 743-750	4.4	9
50	Production of aglycon protopanaxadiol via compound K by a thermostable β -glycosidase from <i>Pyrococcus furiosus</i> . <i>Applied Microbiology and Biotechnology</i> , 2011 , 89, 1019-28	5.7	41

49	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, 1859-66	5-7	18
48	Increase of lycopene production by supplementing auxiliary carbon sources in metabolically engineered <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 489-97	5-7	57
47	Crystal structure of <i>Clostridium thermocellum</i> ribose-5-phosphate isomerase B reveals properties critical for fast enzyme kinetics. <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 517-27	5-7	14
46	Microbial metabolism and biotechnological production of D-allose. <i>Applied Microbiology and Biotechnology</i> , 2011 , 91, 229-35	5-7	37
45	Characterization of a recombinant cellobiose 2-epimerase from <i>Caldicellulosiruptor saccharolyticus</i> and its application in the production of mannose from glucose. <i>Applied Microbiology and Biotechnology</i> , 2011 , 92, 1187-96	5-7	72
44	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, 11812-8	5-7	31
43	Improvement in the thermostability of D-psicose 3-epimerase from <i>Agrobacterium tumefaciens</i> by random and site-directed mutagenesis. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 7316-20	4-8	44
42	Effects of galactose and glucose on the hydrolysis reaction of a thermostable beta-galactosidase from <i>Caldicellulosiruptor saccharolyticus</i> . <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 1427-35	5-7	57
41	Galacto-oligosaccharide production using microbial beta-galactosidase: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 1279-86	5-7	181
40	Biotransformation of ginsenosides by hydrolyzing the sugar moieties of ginsenosides using microbial glycosidases. <i>Applied Microbiology and Biotechnology</i> , 2010 , 87, 9-19	5-7	172
39	Biotransformation of carotenoids to retinal by carotenoid 15,15 α -oxygenase. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 807-16	5-7	15
38	Characterization of a recombinant endo-1,5- β -arabinanase from the isolated bacterium <i>Bacillus licheniformis</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2010 , 15, 590-594	3-1	12
37	Hydrolysis and transglycosylation activity of a thermostable recombinant beta-glycosidase from <i>Sulfolobus acidocaldarius</i> . <i>Applied Biochemistry and Biotechnology</i> , 2010 , 160, 2236-47	3-2	21
36	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, 113-8	3	10
35	Mutational analysis of the active site residues of a D: -psicose 3-epimerase from <i>Agrobacterium tumefaciens</i> . <i>Biotechnology Letters</i> , 2010 , 32, 261-8	3	11
34	Characterization of a recombinant L-fucose isomerase from <i>Caldicellulosiruptor saccharolyticus</i> that isomerizes L-fucose, D-arabinose, D-altrose, and L-galactose. <i>Biotechnology Letters</i> , 2010 , 32, 299-304	3	18
33	Substrate specificity of ribose-5-phosphate isomerases from <i>Clostridium difficile</i> and <i>Thermotoga maritima</i> . <i>Biotechnology Letters</i> , 2010 , 32, 829-35	3	14
32	Hydrophobicity of residue 108 specifically affects the affinity of human beta-carotene 15,15 α -monooxygenase for substrates with two ionone rings. <i>Biotechnology Letters</i> , 2010 , 32, 847-53	3	8

31	Retinal production from beta-carotene by beta-carotene 15,15-dioxygenase from an unculturable marine bacterium. <i>Biotechnology Letters</i> , 2010 , 32, 957-61	3	17
30	Mannose production from fructose by free and immobilized D-lyxose isomerases from <i>Providencia stuartii</i> . <i>Biotechnology Letters</i> , 2010 , 32, 1305-9	3	19
29	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, 1947-53	3	25
28	Substrate specificity of a recombinant D-lyxose isomerase from <i>Providencia stuartii</i> for monosaccharides. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 110, 26-31	3-3	23
27	In vitro characterization of a recombinant Blh protein from an uncultured marine bacterium as a beta-carotene 15,15-dioxygenase. <i>Journal of Biological Chemistry</i> , 2009 , 284, 15781-93	5-4	25
26	Characterization of a recombinant beta-glucosidase from the thermophilic bacterium <i>Caldicellulosiruptor saccharolyticus</i> . <i>Journal of Bioscience and Bioengineering</i> , 2009 , 108, 36-40	3-3	49
25	Substrate specificity of a recombinant chicken beta-carotene 15,15-monooxygenase that converts beta-carotene into retinal. <i>Biotechnology Letters</i> , 2009 , 31, 403-8	3	34
24	Characterization of a mannose-6-phosphate isomerase from <i>Geobacillus thermodenitrificans</i> that converts monosaccharides. <i>Biotechnology Letters</i> , 2009 , 31, 1273-8	3	18
23	Characterization of an acid-labile, thermostable beta-glycosidase from <i>Thermoplasma acidophilum</i> . <i>Biotechnology Letters</i> , 2009 , 31, 1457-62	3	6
22	Characterization of a thermostable endo-1,5-alpha-L-arabinanase from <i>Caldicellulosiruptor saccharolyticus</i> . <i>Biotechnology Letters</i> , 2009 , 31, 1439-43	3	24
21	Substrate specificity of a glucose-6-phosphate isomerase from <i>Pyrococcus furiosus</i> for monosaccharides. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 295-303	5-7	26
20	Ginsenoside compound K production from ginseng root extract by a thermostable beta-glycosidase from <i>Sulfolobus solfataricus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2009 , 73, 316-21	2-1	98
19	Production of the rare ginsenosides compound K, compound Y, and compound Mc by a thermostable beta-glycosidase from <i>Sulfolobus acidocaldarius</i> . <i>Biological and Pharmaceutical Bulletin</i> , 2009 , 32, 1830-5	2-3	63
18	Optimized formation of detergent micelles of beta-carotene and retinal production using recombinant human beta, beta-carotene 15,15-monooxygenase. <i>Biotechnology Progress</i> , 2008 , 24, 227-31 ⁸	3-1	17
17	Conversion of linoleic acid into 10-Hydroxy-12(Z)-octadecenoic acid by whole cells of <i>Stenotrophomonas nitritireducens</i> . <i>Biotechnology Progress</i> , 2008 , 24, 182-6	2-8	19
16	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, 2307-13	4-8	12
15	Galactooligosaccharide production by a thermostable beta-galactosidase from <i>Sulfolobus solfataricus</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2008 , 24, 1553-1558	4-4	60
14	Substrate specificity of <i>Stenotrophomonas nitritireducens</i> in the hydroxylation of unsaturated fatty acid. <i>Applied Microbiology and Biotechnology</i> , 2008 , 78, 157-63	5-7	16

13	Tagatose production with pH control in a stirred tank reactor containing immobilized L-arabinose from <i>Thermotoga neapolitana</i> . <i>Applied Biochemistry and Biotechnology</i> , 2008 , 149, 245-53	3.2	25
12	Ginsenoside Rd production from the major ginsenoside Rb(1) by beta-glucosidase from <i>Thermus caldophilus</i> . <i>Biotechnology Letters</i> , 2008 , 30, 713-6	3	49
11	L-Ribulose production from L-arabinose by an L-arabinose isomerase mutant from <i>Geobacillus thermodenitrificans</i> . <i>Biotechnology Letters</i> , 2008 , 30, 1789-93	3	25
10	Optimization of octanoic acid and sulfur donor concentrations for lipoic acid production by <i>Pseudomonas reptilivora</i> . <i>Biotechnology Letters</i> , 2008 , 30, 1825-8	3	3
9	Enantioselective production of 2,2-dimethylcyclopropane carboxylic acid from 2,2-dimethylcyclopropane carbonitrile using the nitrile hydratase and amidase of <i>Rhodococcus erythropolis</i> ATCC 25544. <i>Enzyme and Microbial Technology</i> , 2007 , 41, 842-848	3.8	28
8	Production of epigallocatechin gallate 7-O-alpha-D-glucopyranoside (EGCG-G1) using the glucosyltransferase from <i>Leuconostoc mesenteroides</i> . <i>Biotechnology Progress</i> , 2007 , 23, 1082-6	2.8	5
7	Tagatose: properties, applications, and biotechnological processes. <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 1-8	5.7	165
6	Effective production of retinal from beta-carotene using recombinant mouse beta-carotene 15,15H-monooxygenase. <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 1339-45	5.7	14
5	d-Psicose production from d-fructose using an isolated strain, <i>Sinorhizobium</i> sp.. <i>World Journal of Microbiology and Biotechnology</i> , 2007 , 23, 559-563	4.4	23
4	Characterization of ribose-5-phosphate isomerase of <i>Clostridium thermocellum</i> producing D-allose from D-psicose. <i>Biotechnology Letters</i> , 2007 , 29, 1387-91	3	31
3	High concentration cultivation of <i>Bifidobacterium bifidum</i> in a submerged membrane bioreactor. <i>Biotechnology Progress</i> , 2006 , 22, 1591-7	2.8	2
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	3.8	95
1	Enzyme Access Tunnel Engineering in Baeyer-Villiger Monooxygenases to Improve Oxidative Stability and Biocatalyst Performance. <i>Advanced Synthesis and Catalysis</i> ,	5.6	3