

Yu-Guo Zheng

List of Publications by Year in descending order

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410
papers

7,721
citations

109321

35
h-index

138484

58
g-index

423
all docs

423
docs citations

423
times ranked

5382
citing authors

#	ARTICLE	IF	CITATIONS
1	Commodity Chemicals Derived from Glycerol, an Important Biorefinery Feedstock. <i>Chemical Reviews</i> , 2008, 108, 5253-77.	47.7	305
2	Enzymatic asymmetric synthesis of chiral amino acids. <i>Chemical Society Reviews</i> , 2018, 47, 1516-1561.	38.1	269
3	Recent advances in the improvement of enzyme thermostability by structure modification. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 83-98.	9.0	145
4	Recent advances in biotechnological applications of alcohol dehydrogenases. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 987-1001.	3.6	134
5	Properties and Production of Valienamine and Its Related Analogues. <i>Chemical Reviews</i> , 2003, 103, 1955-1978.	47.7	125
6	Production of Octenyl Succinic Anhydride-Modified Waxy Corn Starch and Its Characterization. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 11499-11506.	5.2	114
7	Voglibose (Basen®, AO-128), One of the Most Important α-Glucosidase Inhibitors. <i>Current Medicinal Chemistry</i> , 2006, 13, 109-116.	2.4	111
8	Natural Products with Maleic Anhydride Structure:Â Nonadrides, Tautomycin, Chaetomelic Anhydride, and Other Compounds. <i>Chemical Reviews</i> , 2007, 107, 1777-1830.	47.7	98
9	Enzymatic synthesis of an ezetimibe intermediate using carbonyl reductase coupled with glucose dehydrogenase in an aqueous-organic solvent system. <i>Bioresource Technology</i> , 2017, 229, 26-32.	9.6	71
10	Immobilization of amidase into a magnetic hierarchically porous metalâ€“organic framework for efficient biocatalysis. <i>Chemical Communications</i> , 2019, 55, 5697-5700.	4.1	70
11	Immobilization of Enzymes in/on Membranes and their Applications. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 5500-5515.	4.3	69
12	Immobilization of Multi-Enzymes on Support Materials for Efficient Biocatalysis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 660.	4.1	69
13	Bioleaching of chromium from tannery sludge by indigenous <i>Acidithiobacillus thiooxidans</i> . <i>Journal of Hazardous Materials</i> , 2007, 147, 319-324.	12.4	64
14	Metabolic engineering of <i>Escherichia coli</i> for microbial production of Lâ€“methionine. <i>Biotechnology and Bioengineering</i> , 2017, 114, 843-851.	3.3	64
15	Isolation, identification and characterization of <i>Bacillus subtilis</i> ZJB-063, a versatile nitrile-converting bacterium. <i>Applied Microbiology and Biotechnology</i> , 2008, 77, 985-993.	3.6	61
16	Properties and biotechnological applications of halohydrin dehalogenases: current state and future perspectives. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 9-21.	3.6	60
17	Biosynthesis of tert-butyl (3R,5S)-6-chloro-3,5-dihydroxyhexanoate by carbonyl reductase from <i>Rhodospiridium toruloides</i> in mono and biphasic media. <i>Bioresource Technology</i> , 2018, 249, 161-167.	9.6	59
18	Systematic Analysis of Bottlenecks in a Multibranching and Multilevel Regulated Pathway: The Molecular Fundamentals of <i>Met</i> -Methionine Biosynthesis in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 2577-2589.	3.8	59

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19	Improvement of <i>Alcaligenes faecalis</i> Nitrilase by Gene Site Saturation Mutagenesis and Its Application in Stereospecific Biosynthesis of (R)-(α)-Mandelic Acid. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 4685-4694.	5.2	55
20	Promoter engineering strategies for the overproduction of valuable metabolites in microbes. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 8725-8736.	3.6	53
21	Application of CRISPRi in <i>Corynebacterium glutamicum</i> for shikimic acid production. <i>Biotechnology Letters</i> , 2016, 38, 2153-2161.	2.2	50
22	Upscale production of ethyl (S)-4-chloro-3-hydroxybutanoate by using carbonyl reductase coupled with glucose dehydrogenase in aqueous-organic solvent system. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2119-2129.	3.6	49
23	Use of glycerol for producing 1,3-dihydroxyacetone by <i>Gluconobacter oxydans</i> in an airlift bioreactor. <i>Bioresource Technology</i> , 2011, 102, 7177-7182.	9.6	47
24	Activity improvement of a <i>Kluyveromyces lactis</i> aldo-keto reductase KlAKR via rational design. <i>Journal of Biotechnology</i> , 2016, 224, 20-26.	3.8	47
25	Enantioselective hydrolysis of diethyl 3-hydroxyglutarate to ethyl (S)-3-hydroxyglutarate by immobilized <i>Candida antarctica</i> lipase B. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 66, 90-94.	1.8	45
26	Properties of a novel thermostable glucose isomerase mined from <i>Thermus oshimai</i> and its application to preparation of high fructose corn syrup. <i>Enzyme and Microbial Technology</i> , 2017, 99, 1-8.	3.2	45
27	Directed Evolution of Carbonyl Reductase from <i>Rhodospiridium toruloides</i> and Its Application in Stereoselective Synthesis of tert-Butyl (3R,5S)-6-Chloro-3,5-dihydroxyhexanoate. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 3721-3729.	5.2	45
28	Isolation and characterization of <i>Delftia tsuruhatensis</i> ZJB-05174, capable of R-enantioselective degradation of 2,2-dimethylcyclopropanecarboxamide. <i>Research in Microbiology</i> , 2007, 158, 258-264.	2.1	43
29	Gene Cloning, Expression, and Characterization of a Nitrilase from <i>Alcaligenes faecalis</i> ZJUTB10. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 11560-11570.	5.2	43
30	Characterization of <i>Acinetobacter indicus</i> ZJB20129 for heterotrophic nitrification and aerobic denitrification isolated from an urban sewage treatment plant. <i>Bioresource Technology</i> , 2022, 347, 126423.	9.6	42
31	Cloning, sequencing, and expression of a novel epoxide hydrolase gene from <i>Rhodococcus opacus</i> in <i>Escherichia coli</i> and characterization of enzyme. <i>Applied Microbiology and Biotechnology</i> , 2007, 74, 99-106.	3.6	41
32	Enantioselective biocatalytic hydrolysis of (R,S)-mandelonitrile for production of (R)-(α)-mandelic acid by a newly isolated mutant strain. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011, 38, 337-345.	3.0	41
33	Gene Replacement for the Generation of Designed Novel Avermectin Derivatives with Enhanced Acaricidal and Nematicidal Activities. <i>Applied and Environmental Microbiology</i> , 2015, 81, 5326-5334.	3.1	40
34	Biosynthetic Pathway Analysis for Improving the Cordycepin and Cordycepic Acid Production in <i>Hirsutella sinensis</i> . <i>Applied Biochemistry and Biotechnology</i> , 2016, 179, 633-649.	2.9	40
35	Amidase as a versatile tool in amide-bond cleavage: From molecular features to biotechnological applications. <i>Biotechnology Advances</i> , 2020, 43, 107574.	11.7	39
36	Significant improvement of the nitrilase activity by semi-rational protein engineering and its application in the production of iminodiacetic acid. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 563-571.	7.5	38

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37	A Novel Integrated Bioprocess for Efficient Production of (R)-(α)-Mandelic Acid with Immobilized <i>Alcaligenes faecalis</i> ZJUTB10. <i>Organic Process Research and Development</i> , 2013, 17, 213-220.	2.7	37
38	Nitrilase: a promising biocatalyst in industrial applications for green chemistry. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 72-93.	9.0	37
39	Cloning, expression and characterization of a lipase gene from the <i>Candida antarctica</i> ZJB09193 and its application in biosynthesis of vitamin A esters. <i>Microbiological Research</i> , 2012, 167, 452-460.	5.3	36
40	Chemoenzymatic synthesis of (S)-duloxetine using carbonyl reductase from <i>Rhodospiridium toruloides</i> . <i>Bioorganic Chemistry</i> , 2016, 65, 82-89.	4.1	36
41	Isolation and characterization of a novel <i>Arthrobacter nitroguajacolicus</i> ZJUTB06-99, capable of converting acrylonitrile to acrylic acid. <i>Process Biochemistry</i> , 2009, 44, 781-785.	3.7	35
42	Metabolic engineering of <i>Escherichia coli</i> for d-pantothenic acid production. <i>Food Chemistry</i> , 2019, 294, 267-275.	8.2	35
43	Characterization of a newly synthesized epoxide hydrolase and its application in racemic resolution of (R,S)-epichlorohydrin. <i>Catalysis Communications</i> , 2011, 16, 133-139.	3.3	34
44	Design of Nitrilases with Superior Activity and Enantioselectivity towards Sterically Hindered Nitrile by Protein Engineering. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 1741-1750.	4.3	34
45	Rational design of <i>Kluyveromyces marxianus</i> ZJB14056 α -keto reductase Km AKR to enhance diastereoselectivity and activity. <i>Enzyme and Microbial Technology</i> , 2017, 107, 32-40.	3.2	34
46	Microbial Transformation of Nitriles to High-Value Acids or Amides. , 2009, 113, 33-77.		33
47	<i>Actinoplanes utahensis</i> ZJB-08196 fed-batch fermentation at elevated osmolality for enhancing acarbose production. <i>Bioresource Technology</i> , 2012, 103, 337-342.	9.6	33
48	A novel enantioselective epoxide hydrolase from <i>Agromyces mediolanus</i> ZJB120203: Cloning, characterization and application. <i>Process Biochemistry</i> , 2014, 49, 409-417.	3.7	33
49	Separation and purification of l-methionine from <i>E. coli</i> fermentation broth by macroporous resin chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1110-1111, 108-115.	2.3	33
50	Optimization of β -alanine production from β -aminopropionitrile by resting cells of <i>Rhodococcus</i> sp. G20 in a bubble column reactor using response surface methodology. <i>Process Biochemistry</i> , 2008, 43, 758-764.	3.7	32
51	Biosynthesis of (<i>R</i>)- α -epichlorohydrin at high substrate concentration by kinetic resolution of racemic epichlorohydrin with a recombinant epoxide hydrolase. <i>Engineering in Life Sciences</i> , 2013, 13, 385-392.	3.6	32
52	Engineering the residues on α -surface and C-terminal region to improve thermostability of nitrilase. <i>Enzyme and Microbial Technology</i> , 2018, 113, 52-58.	3.2	32
53	Production of 1,3-dihydroxyacetone from glycerol by <i>Gluconobacter oxydans</i> ZJB09112. <i>Journal of Microbiology and Biotechnology</i> , 2010, 20, 340-345.	2.1	32
54	A screening system for active and enantioselective amidase based on its acyl transfer activity. <i>Applied Microbiology and Biotechnology</i> , 2007, 74, 256-262.	3.6	31

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55	Enhanced biotransformation of (R,S)-mandelonitrile to (R)-(α)-mandelic acid with in situ production removal by addition of resin. <i>Biochemical Engineering Journal</i> , 2010, 53, 143-149.	3.6	31
56	Immobilization of recombinant <i>Escherichia coli</i> whole cells harboring xylose reductase and glucose dehydrogenase for xylitol production from xylose mother liquor. <i>Bioresource Technology</i> , 2019, 285, 121344.	9.6	31
57	Isolation of brefeldin A from <i>Eupenicillium brefeldianum</i> broth using macroporous resin adsorption chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 895-896, 146-153.	2.3	30
58	One-pot, single-step deracemization of 2-hydroxyacids by tandem biocatalytic oxidation and reduction. <i>Chemical Communications</i> , 2013, 49, 10706.	4.1	30
59	Preparative separation of echinocandin B from <i>Aspergillus nidulans</i> broth using macroporous resin adsorption chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 978-979, 111-117.	2.3	30
60	Transcriptome sequencing and analysis of the entomopathogenic fungus <i>Hirsutella sinensis</i> isolated from <i>Ophiocordyceps sinensis</i> . <i>BMC Genomics</i> , 2015, 16, 106.	2.8	30
61	Construction of a highly active secretory expression system in <i>Bacillus subtilis</i> of a recombinant amidase by promoter and signal peptide engineering. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 833-841.	7.5	29
62	The Gibberellin Producer <i>Fusarium fujikuroi</i> : Methods and Technologies in the Current Toolkit. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 232.	4.1	29
63	Optimization of cultivation conditions for the production of 1,3-dihydroxyacetone by <i>Pichia membranifaciens</i> using response surface methodology. <i>Biochemical Engineering Journal</i> , 2008, 38, 285-291.	3.6	28
64	Biosynthesis of Iminodiacetic Acid from Iminodiacetonitrile by Immobilized Recombinant <i>Escherichia coli</i> Harboring Nitrilase. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2012, 22, 35-47.	1.0	28
65	Nitrite-mediated synthesis of chiral epichlorohydrin using halohydrin dehalogenase from <i>Agrobacterium radiobacter</i> AD1. <i>Biotechnology and Applied Biochemistry</i> , 2012, 59, 170-177.	3.1	28
66	Production of (R)-epichlorohydrin from 1,3-dichloro-2-propanol by two-step biocatalysis using haloalcohol dehalogenase and epoxide hydrolase in two-phase system. <i>Biochemical Engineering Journal</i> , 2013, 74, 1-7.	3.6	28
67	Improvement and characterization of a hyperthermophilic glucose isomerase from <i>Thermoanaerobacter ethanolicus</i> and its application in production of high fructose corn syrup. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015, 42, 1091-1103.	3.0	28
68	Biochemical characterization of a novel tyrosine phenol-lyase from <i>Fusobacterium nucleatum</i> for highly efficient biosynthesis of L-DOPA. <i>Enzyme and Microbial Technology</i> , 2018, 112, 88-93.	3.2	28
69	Identification and characterization of an amidase from <i>Leclercia adecarboxylata</i> for efficient biosynthesis of L-phosphinothricin. <i>Bioresource Technology</i> , 2019, 289, 121658.	9.6	28
70	Light-driven deracemization of phosphinothricin by engineered fatty acid photodecarboxylase on a gram scale. <i>Green Chemistry</i> , 2020, 22, 6815-6818.	9.0	28
71	Isolation and identification of a novel <i>Rhodococcus</i> sp. ML-0004 producing epoxide hydrolase and optimization of enzyme production. <i>Process Biochemistry</i> , 2007, 42, 889-894.	3.7	27
72	Cloning and characterization of a NADH-dependent aldo-keto reductase from a newly isolated <i>Kluyveromyces lactis</i> XP1461. <i>Enzyme and Microbial Technology</i> , 2015, 77, 68-77.	3.2	27

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73	Immobilization of Recombinant Glucose Isomerase for Efficient Production of High Fructose Corn Syrup. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 293-306.	2.9	27
74	Regioselective and Direct Azidation of Anilines via Cu(II)-Catalyzed C-H Functionalization in Water. <i>Journal of Organic Chemistry</i> , 2017, 82, 11212-11217.	3.2	27
75	Biosynthesis of chiral epichlorohydrin using an immobilized halohydrin dehalogenase in aqueous and non-aqueous phase. <i>Bioresource Technology</i> , 2018, 263, 483-490.	9.6	27
76	Asymmetric synthesis of l-phosphinothricin using thermostable alpha-transaminase mined from <i>Citrobacter koseri</i> . <i>Journal of Biotechnology</i> , 2019, 302, 10-17.	3.8	27
77	Microbial biomass production from rice straw hydrolysate in airlift bioreactors. <i>Journal of Biotechnology</i> , 2005, 118, 413-420.	3.8	26
78	Dissolved-oxygen-stat fed-batch fermentation of 1,3-dihydroxyacetone from glycerol by <i>Gluconobacter oxydans</i> ZJB09112. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 651-656.	2.6	26
79	Biosynthesis of nicotinic acid from 3-cyanopyridine by a newly isolated <i>Fusarium proliferatum</i> ZJB-09150. <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 431-440.	3.6	26
80	Efficient production of S-(+)-2-chlorophenylglycine by immobilized penicillin G acylase in a recirculating packed bed reactor. <i>Biochemical Engineering Journal</i> , 2013, 74, 88-94.	3.6	26
81	Efficient bio-degradation of food waste through improving the microbial community compositions by newly isolated <i>Bacillus</i> strains. <i>Bioresource Technology</i> , 2021, 321, 124451.	9.6	26
82	Biosynthesis of p-methoxyphenylacetic acid from p-methoxyphenylacetonitrile by immobilized <i>Bacillus subtilis</i> ZJB-063. <i>Process Biochemistry</i> , 2008, 43, 978-983.	3.7	25
83	A novel synthesis of iminodiacetic acid: Biocatalysis by whole <i>Alcaligenes faecalis</i> ZJB09133 cells from iminodiacetonitrile. <i>Biotechnology Progress</i> , 2011, 27, 698-705.	2.6	25
84	Screening and Improving the Recombinant Nitrilases and Application in Biotransformation of Iminodiacetonitrile to Iminodiacetic Acid. <i>PLoS ONE</i> , 2013, 8, e67197.	2.5	25
85	Characterization of a newly synthesized carbonyl reductase and construction of a biocatalytic process for the synthesis of ethyl (S)-4-chloro-3-hydroxybutanoate with high space-time yield. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1671-1680.	3.6	25
86	Chemoenzymatic synthesis of gabapentin by combining nitrilase-mediated hydrolysis with hydrogenation over Raney-nickel. <i>Catalysis Communications</i> , 2015, 66, 121-125.	3.3	25
87	Asymmetric biosynthesis of L-phosphinothricin by a novel transaminase from <i>Pseudomonas fluorescens</i> ZJB09-108. <i>Process Biochemistry</i> , 2019, 85, 60-67.	3.7	25
88	Efficient Biosynthesis of Xylitol from Xylose by Coexpression of Xylose Reductase and Glucose Dehydrogenase in <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 1143-1157.	2.9	25
89	Multiplex Design of the Metabolic Network for Production of α -Homoserine in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	25
90	Tuning amino acid dehydrogenases with featured sequences for L-phosphinothricin synthesis by reductive amination. <i>Journal of Biotechnology</i> , 2020, 312, 35-43.	3.8	25

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91	Asymmetric synthesis of (R)-1,3-butanediol from 4-hydroxy-2-butanone by a newly isolated strain <i>Candida krusei</i> ZJB-09162. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 969-976.	3.6	24
92	Activity improvement of a regioselective nitrilase from <i>Acidovorax facilis</i> and its application in the production of 1-(cyanocyclohexyl) acetic acid. <i>Process Biochemistry</i> , 2014, 49, 2141-2148.	3.7	24
93	Chemical and enzymatic approaches to the synthesis of optically pure ethyl (R)-4-cyano-3-hydroxybutanoate. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 11-21.	3.6	24
94	Engineering of <i>Thermomyces lanuginosus</i> lipase Lip: creation of novel biocatalyst for efficient biosynthesis of chiral intermediate of Pregabalin. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 2473-2483.	3.6	24
95	Repeated biotransformation of glycerol to 1,3-dihydroxyacetone by immobilized cells of <i>Gluconobacter oxydans</i> with glycerol- and urea-feeding strategy in a bubble column bioreactor. <i>Bioresource Technology</i> , 2017, 233, 144-149.	9.6	24
96	Development of a robust nitrilase by fragment swapping and semi-rational design for efficient biosynthesis of pregabalin precursor. <i>Biotechnology and Bioengineering</i> , 2020, 117, 318-329.	3.3	24
97	Effect of sugar-feeding strategies on astaxanthin production by <i>Xanthophyllomyces dendrorhous</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2005, 21, 771-775.	3.6	23
98	Production of valienamine by a newly isolated strain: <i>Stenotrophomonas maltophilia</i> . <i>Enzyme and Microbial Technology</i> , 2006, 39, 1060-1065.	3.2	23
99	Degradation of abamectin by newly isolated <i>Stenotrophomonas maltophilia</i> ZJB-14120 and characterization of its abamectin-tolerance mechanism. <i>Research in Microbiology</i> , 2015, 166, 408-418.	2.1	23
100	High-throughput screening methods for nitrilases. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 3421-3432.	3.6	23
101	Enhanced catalytic efficiency and enantioselectivity of epoxide hydrolase from <i>Agrobacterium radiobacter</i> AD1 by iterative saturation mutagenesis for (R)-epichlorohydrin synthesis. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 733-742.	3.6	23
102	Inhibition of porcine small intestinal sucrase by valienamine. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2005, 20, 49-53.	5.2	22
103	Novel biosynthesis of (R)-ethyl-3-hydroxyglutarate with (R)-enantioselective hydrolysis of racemic ethyl 4-cyano-3-hydroxybutyrate by <i>Rhodococcus erythropolis</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1335-1345.	3.6	22
104	Enantioselective hydrolysis of epichlorohydrin using whole <i>Aspergillus niger</i> ZJB-09173 cells in organic solvents. <i>Journal of Biosciences</i> , 2012, 37, 695-702.	1.1	22
105	Enzymatic production of 5 α -inosinic acid by a newly synthesised acid phosphatase/phosphotransferase. <i>Food Chemistry</i> , 2012, 134, 948-956.	8.2	22
106	High Level of Spinosad Production in the Heterologous Host <i>Saccharopolyspora erythraea</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 5603-5611.	3.1	22
107	Enhanced activity of <i>Thermomyces lanuginosus</i> lipase by site-saturation mutagenesis for efficient biosynthesis of chiral intermediate of pregabalin. <i>Biochemical Engineering Journal</i> , 2016, 113, 12-18.	3.6	22
108	Significantly increased catalytic activity of <i>Candida antarctica</i> lipase B for the resolution of cis-(\pm)-dimethyl 1-acetyl piperidine-2,3-dicarboxylate. <i>Catalysis Science and Technology</i> , 2018, 8, 4718-4725.	4.1	22

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109	Controlling Stereopreferences of Carbonyl Reductases for Enantioselective Synthesis of Atorvastatin Precursor. <i>ACS Catalysis</i> , 2021, 11, 2572-2582.	11.2	22
110	Isolation of glycolonitrile-hydrolyzing microorganism based on colorimetric reaction. <i>Enzyme and Microbial Technology</i> , 2007, 41, 244-249.	3.2	21
111	Biotransformation of <i>p</i> -methoxyphenylacetonitrile into <i>p</i> -methoxyphenylacetic acid by resting cells of <i>Bacillus subtilis</i> . <i>Biotechnology and Applied Biochemistry</i> , 2008, 50, 147-153.	3.1	21
112	Enantioselective hydrolysis of (R)-2, 2-dimethylcyclopropane carboxamide by immobilized cells of an R-amidase-producing bacterium, <i>Delftia tsuruhatensis</i> CCTCC M 205114, on an alginate capsule carrier. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2010, 37, 503-510.	3.0	21
113	Enhanced biotransformation of 1,3-dichloro-2-propanol to epichlorohydrin via resin-based in situ product removal process. <i>Biotechnology Letters</i> , 2013, 35, 937-942.	2.2	21
114	Enhancement of (S)-2,3-dichloro-1-propanol production by recombinant whole-cell biocatalyst in n-heptane-aqueous biphasic system. <i>Journal of Biotechnology</i> , 2014, 188, 42-47.	3.8	21
115	Thermophilic esterase from <i>Thermomyces lanuginosus</i> : Molecular cloning, functional expression and biochemical characterization. <i>Protein Expression and Purification</i> , 2014, 101, 1-7.	1.3	21
116	Asymmetric synthesis of optically active methyl-2-benzamido-methyl-3-hydroxy-butyrates by robust short-chain alcohol dehydrogenases from <i>Burkholderia gladioli</i> . <i>Chemical Communications</i> , 2015, 51, 12328-12331.	4.1	21
117	Cloning, expression and enzymatic characterization of an aldo-keto reductase from <i>Candida albicans</i> XP1463. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 122, 44-50.	1.8	21
118	Semirational engineering of an aldo-keto reductase <i>Km</i> AKR for overcoming trade-offs between catalytic activity and thermostability. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4441-4452.	3.3	21
119	Fed-in-situ biological reduction treatment of food waste via high-temperature-resistant oil degrading microbial consortium. <i>Bioresource Technology</i> , 2021, 340, 125635.	9.6	21
120	Inhibitory effects of validamycin compounds on the termites trehalase. <i>Pesticide Biochemistry and Physiology</i> , 2009, 95, 28-32.	3.6	20
121	Optimization of media composition and culture conditions for acarbose production by <i>Actinoplanes utahensis</i> ZJB-08196. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 2759-2766.	3.6	20
122	Purification, Gene Cloning, and Characterization of a Novel Halohydrin Dehalogenase from <i>Agromyces mediolanus</i> ZJB120203. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 352-364.	2.9	20
123	Efficient synthesis of (S)-epichlorohydrin in high yield by cascade biocatalysis with halohydrin dehalogenase and epoxide hydrolase mutants. <i>Catalysis Communications</i> , 2015, 72, 147-149.	3.3	20
124	Enhancement of cordyceps polysaccharide production via biosynthetic pathway analysis in <i>Hirsutella sinensis</i> . <i>International Journal of Biological Macromolecules</i> , 2016, 92, 872-880.	7.5	20
125	Highly efficient production of 1-cyanocyclohexanecarboxylic acid by cross-linked cell aggregates (CLCAs) of recombinant <i>E. coli</i> harboring nitrilase gene. <i>Process Biochemistry</i> , 2018, 65, 93-99.	3.7	20
126	Improvement of carbonyl reductase activity for the bioproduction of tert-butyl (3R,5S)-6-chloro-3,5-dihydroxyhexanoate. <i>Bioorganic Chemistry</i> , 2018, 80, 733-740.	4.1	20

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254	High-level production of <i>d</i> -pantothenic acid from glucose by fed-batch cultivation of <i>Escherichia coli</i> . <i>Biotechnology and Applied Biochemistry</i> , 2020, , .	3.1	10
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263	Enhanced diastereoselective synthesis of <i>t</i> -butyl 6-cyano-(3 <i>R</i> ,5 <i>R</i>)-dihydroxyhexanoate by using aldo-keto reductase and glucose dehydrogenase co-producing engineered <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2017, 33, 1235-1242.	2.6	9
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