Z-Q Liu

List of Publications by Year in descending order

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218 papers	4,658 citations	126907 33 h-index	189892 50 g-index
227 all docs	227 docs citations	227 times ranked	3353 citing authors

#	Article	IF	Citations
1	Comparative transcriptomic and lipidomic analysis of oleic environment adaptation in Saccharomyces cerevisiae: insight into metabolic reprogramming and lipid membrane expansion. Systems Microbiology and Biomanufacturing, 2024, 4, 112-126.	2.9	4
2	Efficient enzymatic synthesis of Lâ€ascorbyl palmitate using Candida antarctica lipase Bâ€embedded metalâ€organic framework. Biotechnology Progress, 2022, 38, e3218.	2.6	3
3	Targeting metabolic driving and minimization of byâ€products synthesis for highâ€yield production of Dâ€pantothenate in Escherichia coli. Biotechnology Journal, 2022, 17, e2100431.	3.5	10
4	Enhanced catalytic activity of recombinant transaminase by molecular modification to improve L-phosphinothricin production. Journal of Biotechnology, 2022, 343, 7-14.	3.8	4
5	Spontaneous Resolution of Racemic Cage-Catenanes via Diastereomeric Enrichment at the Molecular Level and Subsequent Narcissistic Self-Sorting at the Supramolecular Level. Journal of the American Chemical Society, 2022, 144, 1342-1350.	13.7	24
6	Development of an Escherichia coli whole cell catalyst harboring conjugated polyketone reductase from Candida glabrata for synthesis of d-(â^')-pantolactone. Process Biochemistry, 2022, 112, 223-233.	3.7	10
7	Tuning the catalytic performances of a sucrose isomerase for production of isomaltulose with high concentration. Applied Microbiology and Biotechnology, 2022, 106, 2493-2501.	3.6	2
8	Determination of three sites involved in the divergence of L-aspartate-Î±-decarboxylase self-cleavage in bacteria. Enzyme and Microbial Technology, 2022, 158, 110048.	3.2	4
9	Module engineering coupled with omics strategies for enhancing D-pantothenate production in Escherichia coli. Bioresource Technology, 2022, 352, 127024.	9.6	6
10	Enabling biocatalysis in highâ€concentration organic cosolvent by enzyme gate engineering. Biotechnology and Bioengineering, 2022, 119, 845-856.	3.3	11
11	Highâ€Throughput Screening of Signal Peptide Library with Novel Fluorescent Probe. ChemBioChem, 2022, , .	2.6	1
12	Engineering Novel (R)-Selective Transaminase for Efficient Symmetric Synthesis of <scp>d</scp> -Alanine. Applied and Environmental Microbiology, 2022, 88, e0006222.	3.1	5
13	Rerouting Fluxes of the Central Carbon Metabolism and Relieving Mechanism-Based Inactivation of <scp>l</scp>-Aspartate-Î±-decarboxylase for Fermentative Production of Î²-Alanine in Escherichia coli. ACS Synthetic Biology, 2022, 11, 1908-1918.	3.8	18
14	Recent advances in metabolic regulation and bioengineering of gibberellic acid biosynthesis in Fusarium fujikuroi. World Journal of Microbiology and Biotechnology, 2022, 38, .	3.6	6
15	O-Succinyl-l-homoserine overproduction with enhancement of the precursor succinyl-CoA supply by engineered Escherichia coli. Journal of Biotechnology, 2021, 325, 164-172.	3.8	3
16	Heterologous expression and biochemical characterization of a thermostable endo-Î²-1,4-glucanase from Colletotrichum orchidophilum. Bioprocess and Biosystems Engineering, 2021, 44, 67-79.	3.4	10
17	Enhanced O â€succinylâ€<scp>l</scp> â€homoserine production by recombinant Escherichia coli Î”IJBB*Trc metL /pTrcâ€metA ^{fbr} â€Trcâ€thrA ^{fbr} â€yjeH via multilevel fermentation optimization. Journal of Applied Microbiology, 2021, 130, 1960-1971.	3.1	9
18	Enhanced amphotericin B production by genetically engineered Streptomyces nodosus. Microbiological Research, 2021, 242, 126623.	5.3	16

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19	Nitrilase: a promising biocatalyst in industrial applications for green chemistry. Critical Reviews in Biotechnology, 2021, 41, 72-93.	9.0	37
20	Increasement of O-acetylhomoserine production in Escherichia coli by modification of glycerol-oxidative pathway coupled with optimization of fermentation. Biotechnology Letters, 2021, 43, 105-117.	2.2	3
21	Efficient production of an ezetimibe intermediate using carbonyl reductase coupled with glucose dehydrogenase. Biotechnology Progress, 2021, 37, e3068.	2.6	3
22	Characterization of a recombinant sucrose isomerase and its application to enzymatic production of isomaltulose. Biotechnology Letters, 2021, 43, 261-269.	2.2	8
23	Structural insights into the thermostability mechanism of a nitrile hydratase from Caldalkalibacillus thermarum by comparative molecular dynamics simulation. Proteins: Structure, Function and Bioinformatics, 2021, 89, 978-987.	2.6	9
24	Comparative metabolomics analysis of amphotericin B high-yield mechanism for metabolic engineering. Microbial Cell Factories, 2021, 20, 66.	4.0	2
25	Identification of a novel promoter for driving antibiotic-resistant genes to reduce the metabolic burden during protein expression and effectively select multiple integrations in Pichia Pastoris. Applied Microbiology and Biotechnology, 2021, 105, 3211-3223.	3.6	10
26	Immobilization of recombinant Escherichia coli cells expressing glucose isomerase using modified diatomite as a carrier for effective production of high fructose corn syrup in packed bed reactor. Bioprocess and Biosystems Engineering, 2021, 44, 1781-1792.	3.4	8
27	Identification and Characterization of an O-Succinyl-L-Homoserine Sulfhydrylase From Thioalkalivibrio sulfidiphilus. Frontiers in Chemistry, 2021, 9, 672414.	3.6	2
28	Enhancing the production of amphotericin B by Strepyomyces nodosus in a 50-ton bioreactor based on comparative genomic analysis. 3 Biotech, 2021, 11, 299.	2.2	2
29	Overproduction of D-pantothenic acid via fermentation conditions optimization and isoleucine feeding from recombinant Escherichia coli W3110. 3 Biotech, 2021, 11, 295.	2.2	11
30	Singleâ€Handed Double Helix and Spiral Platelet Formed by Racemate of Dissymmetric Cages. Angewandte Chemie, 2021, 133, 15207-15213.	2.0	2
31	Singleâ€Handed Double Helix and Spiral Platelet Formed by Racemate of Dissymmetric Cages. Angewandte Chemie - International Edition, 2021, 60, 15080-15086.	13.8	14
32	Effects of lipids and surfactants on the fermentation production of echinocandin B by Aspergillus nidulans. Journal of Applied Microbiology, 2021, 131, 2849-2860.	3.1	4
33	Catenated Cages Mediated by Enthalpic Reaction Intermediates. CCS Chemistry, 2021, 3, 1838-1850.	7.8	9
34	Improvement of cordycepin production by an isolated Paecilomyces hepiali mutant from combinatorial mutation breeding and medium screening. Bioprocess and Biosystems Engineering, 2021, 44, 2387-2398.	3.4	6
35	Development of a fermentation strategy to enhance the catalytic efficiency of recombinant Escherichia coli for l-2-aminobutyric acid production. 3 Biotech, 2021, 11, 387.	2.2	1
36	Analysis of the effects of different nitrogen sources and calcium on the production of amphotericin by Streptomyces nodosus based on comparative transcriptome. Biotechnology and Applied Biochemistry, 2021, , .	3.1	1

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37	Combining fermentation to produce O-succinyl-l-homoserine and enzyme catalysis for the synthesis of l-methionine in one pot. Journal of Bioscience and Bioengineering, 2021, 132, 451-459.	2.2	3
38	Proposed mechanism for postâ€translational selfâ€modification of Coâ€NHase based on Co 2+ diffusion limitation. Biotechnology Journal, 2021, 16, 2100103.	3.5	1
39	Redesign of (R)-Omega-Transaminase and Its Application for Synthesizing Amino Acids with Bulky Side Chain. Applied Biochemistry and Biotechnology, 2021, 193, 3624-3640.	2.9	6
40	Properties of d-allulose 3-epimerase mined from Novibacillus thermophilus and its application to synthesis of d-allulose. Enzyme and Microbial Technology, 2021, 148, 109816.	3.2	15
41	Highly efficient synthesis of rosuvastatin intermediate using a carbonyl reductaseâ€“cofactor coâ€immobilized biocatalyst in the nonâ€aqueous biosystem. Journal of Chemical Technology and Biotechnology, 2021, 96, 3094.	3.2	1
42	Improved production of D-pantothenic acid in Escherichia coli by integrated strain engineering and fermentation strategies. Journal of Biotechnology, 2021, 339, 65-72.	3.8	18
43	Influences of Xylitol Consumption at Different Dosages on Intestinal Tissues and Gut Microbiota in Rats. Journal of Agricultural and Food Chemistry, 2021, 69, 12002-12011.	5.2	8
44	Multiplex modification of Escherichia coli for enhanced Î²-alanine biosynthesis through metabolic engineering. Bioresource Technology, 2021, 342, 126050.	9.6	18
45	Immobilization of Sucrose Isomerase from Erwinia sp. with Graphene Oxide and Its Application in Synthesizing Isomaltulose. Applied Biochemistry and Biotechnology, 2021, , 1.	2.9	4
46	Strengthening the (R)-pantoate pathway to produce D-pantothenic acid based on systematic metabolic analysis. Food Bioscience, 2021, 43, 101283.	4.4	9
47	Enhanced catalytic efficiency and thermostability of glucose isomerase from Thermoanaerobacter ethanolicus via site-directed mutagenesis. Enzyme and Microbial Technology, 2021, 152, 109931.	3.2	9
48	Asymmetric synthesis of tert-butyl (3R,5S)-6-chloro-3,5-dihydroxyhexanoate using a self-sufficient biocatalyst based on carbonyl reductase and cofactor co-immobilization. Bioprocess and Biosystems Engineering, 2020, 43, 21-31.	3.4	7
49	Production of tertâ€butyl (3R,5S)â€6â€chloroâ€3,5â€dihydroxyhexanoate using carbonyl reductase coupled with glucose dehydrogenase with high spaceâ€“time yield. Biotechnology Progress, 2020, 36, e2900.	2.6	4
50	Enhanced production of l-methionine in engineered Escherichia coli with efficient supply of one carbon unit. Biotechnology Letters, 2020, 42, 429-436.	2.2	11
51	Regulation of homoserine O-succinyltransferase for efficient production of L-methionine in engineered Escherichia coli. Journal of Biotechnology, 2020, 309, 53-58.	3.8	6
52	Construction of a highly active secretory expression system in Bacillus subtilis of a recombinant amidase by promoter and signal peptide engineering. International Journal of Biological Macromolecules, 2020, 143, 833-841.	7.5	29
53	Enhanced AmB Production in Streptomyces nodosus by Fermentation Regulation and Rational Combined Feeding Strategy. Frontiers in Bioengineering and Biotechnology, 2020, 8, 597.	4.1	8
54	Secretory expression and characterization of a novel amidase from Kluyvera cryocrescens in Bacillus subtilis. Biotechnology Letters, 2020, 42, 2367-2377.	2.2	1

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55	Efficient Synthesis of Sugar Alcohols under Mild Conditions Using a Novel Sugar-Selective Hydrogenation Catalyst Based on Ruthenium Valence Regulation. Journal of Agricultural and Food Chemistry, 2020, 68, 12393-12399.	5.2	14
56	Creation of a robust and R-selective Ï‰-amine transaminase for the asymmetric synthesis of sitagliptin intermediate on a kilogram scale. Enzyme and Microbial Technology, 2020, 141, 109655.	3.2	17
57	Multiplex Design of the Metabolic Network for Production of <scp>l</scp> -Homoserine in Escherichia coli. Applied and Environmental Microbiology, 2020, 86, .	3.1	25
58	Proteome sequencing and analysis of Ophiocordyceps sinensis at different culture periods. BMC Genomics, 2020, 21, 886.	2.8	5
59	Enhancement of gibberellic acid production from Fusarium fujikuroi by mutation breeding and glycerol addition. 3 Biotech, 2020, 10, 312.	2.2	6
60	Improvement of gibberellin production by a newly isolatedFusarium fujikuroimutant. Journal of Applied Microbiology, 2020, 129, 1620-1632.	3.1	9
61	Expression and characterization of a CALB-type lipase from Sporisorium reilianum SRZ2 and its potential in short-chain flavor ester synthesis. Frontiers of Chemical Science and Engineering, 2020, 14, 868-879.	4.4	6
62	Upscale production of (R)-mandelic acid with a stereospecific nitrilase in an aqueous system. Bioprocess and Biosystems Engineering, 2020, 43, 1299-1307.	3.4	10
63	The Gibberellin Producer Fusarium fujikuroi: Methods and Technologies in the Current Toolkit. Frontiers in Bioengineering and Biotechnology, 2020, 8, 232.	4.1	29
64	Effects of methyl oleate and microparticle-enhanced cultivation on echinocandin B fermentation titer. Bioprocess and Biosystems Engineering, 2020, 43, 2009-2015.	3.4	11
65	Enhancement of protoplast preparation and regeneration of Hirsutella sinensis based on process optimization. Biotechnology Letters, 2020, 42, 2357-2366.	2.2	7
66	De Novo Construction of Catenanes with Dissymmetric Cages by Spaceâ€Discriminative Postâ€Assembly Modification. Angewandte Chemie, 2020, 132, 7179-7187.	2.0	8
67	Fluorescence-based high-throughput screening system for R-Ï‰-transaminase engineering and its substrate scope extension. Applied Microbiology and Biotechnology, 2020, 104, 2999-3009.	3.6	19
68	Integrated bioinformatics analyses identified SCL3-induced regulatory network in Arabidopsis thaliana roots. Biotechnology Letters, 2020, 42, 1019-1033.	2.2	6
69	Effect of dissolved oxygen on <scp>l</scp>-methionine production from glycerol by Escherichia coli W3110BL using metabolic flux analysis method. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 287-297.	3.0	4
70	Engineering a Pichia pastoris nitrilase whole cell catalyst through the increased nitrilase gene copy number and co-expressing of ER oxidoreductin 1. Applied Microbiology and Biotechnology, 2020, 104, 2489-2500.	3.6	14
71	Calcium Carbonate Addition Improves L-Methionine Biosynthesis by Metabolically Engineered Escherichia coli W3110-BL. Frontiers in Bioengineering and Biotechnology, 2020, 8, 300.	4.1	9
72	Covalent immobilization of recombinant Citrobacter koseri transaminase onto epoxy resins for consecutive asymmetric synthesis of L-phosphinothricin. Bioprocess and Biosystems Engineering, 2020, 43, 1599-1607.	3.4	16

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73	Comparative Transcriptome Analysis of Streptomyces nodosus Mutant With a High-Yield Amphotericin B. Frontiers in Bioengineering and Biotechnology, 2020, 8, 621431.	4.1	6
74	De Novo Construction of Catenanes with Dissymmetric Cages by Spaceâ€Discriminative Postâ€Assembly Modification. Angewandte Chemie - International Edition, 2020, 59, 7113-7121.	13.8	38
75	Highâ€level production of <scp>d</scp> â€pantothenic acid from glucose by fedâ€batch cultivation of Escherichia coli. Biotechnology and Applied Biochemistry, 2020, , .	3.1	10
76	Amphotericin B biosynthesis in Streptomyces nodosus: quantitative analysis of metabolism via LCâ€“MS/MS based metabolomics for rational design. Microbial Cell Factories, 2020, 19, 18.	4.0	12
77	Genome sequencing and analysis of fungus Hirsutella sinensis isolated from Ophiocordyceps sinensis. AMB Express, 2020, 10, 105.	3.0	16
78	Asymmetric biosynthesis of L-phosphinothricin by a novel transaminase from Pseudomonas fluorescens ZJB09-108. Process Biochemistry, 2019, 85, 60-67.	3.7	25
79	Promoter engineering strategies for the overproduction of valuable metabolites in microbes. Applied Microbiology and Biotechnology, 2019, 103, 8725-8736.	3.6	53
80	Asymmetric synthesis of l-phosphinothricin using thermostable alpha-transaminase mined from Citrobacter koseri. Journal of Biotechnology, 2019, 302, 10-17.	3.8	27
81	Identification and characterization of an amidase from Leclercia adecarboxylata for efficient biosynthesis of L-phosphinothricin. Bioresource Technology, 2019, 289, 121658.	9.6	28
82	A novel self-sufficient biocatalyst based on transaminase and pyridoxal 5â€²-phosphate covalent co-immobilization and its application in continuous biosynthesis of sitagliptin. Enzyme and Microbial Technology, 2019, 130, 109362.	3.2	20
83	Metabolic engineering of Escherichia coli for d-pantothenic acid production. Food Chemistry, 2019, 294, 267-275.	8.2	35
84	Fermentative production of the unnatural amino acid l-2-aminobutyric acid based on metabolic engineering. Microbial Cell Factories, 2019, 18, 43.	4.0	20
85	Efficient Resolution of cis-(Â±)-Dimethyl 1-Acetylpiperidine-2,3-dicarboxylate by Covalently Immobilized Mutant Candida antarctica Lipase B in Batch and Semicontinuous Modes. Organic Process Research and Development, 2019, 23, 1017-1025.	2.7	12
86	Immobilization of recombinant Escherichia coli whole cells harboring xylose reductase and glucose dehydrogenase for xylitol production from xylose mother liquor. Bioresource Technology, 2019, 285, 121344.	9.6	31
87	Separation and purification of l-methionine from E. coli fermentation broth by macroporous resin chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1110-1111, 108-115.	2.3	33
88	Enhanced L-methionine production by genetically engineered Escherichia coli through fermentation optimization. 3 Biotech, 2019, 9, 96.	2.2	20
89	Efficient Biosynthesis of Xylitol from Xylose by Coexpression of Xylose Reductase and Glucose Dehydrogenase in Escherichia coli. Applied Biochemistry and Biotechnology, 2019, 187, 1143-1157.	2.9	25
90	Molecular modification of a halohydrin dehalogenase for kinetic regulation to synthesize optically pure (S)-epichlorohydrin. Bioresource Technology, 2019, 276, 154-160.	9.6	16

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91	Establishment of a novel high-throughput screening method for the detection and quantification of L-phosphinothricin produced by a biosynthesis approach. Process Biochemistry, 2019, 76, 136-141.	3.7	10
92	Highly efficient conversion of 1-cyanocycloalkaneacetonitrile using a â€œsuper nitrilase mutantâ€• Bioprocess and Biosystems Engineering, 2019, 42, 455-463.	3.4	14
93	Highly Efficient Deracemization of Racemic 2-Hydroxy Acids in a Three-Enzyme Co-Expression System Using a Novel Ketoacid Reductase. Applied Biochemistry and Biotechnology, 2018, 186, 563-575.	2.9	1
94	Improvement of a newly cloned carbonyl reductase and its application to biosynthesize chiral intermediate of duloxetine. Process Biochemistry, 2018, 70, 124-128.	3.7	19
95	ReToAd: simple method for the rapid replacement of promoters to improve protein production. Biotechnology Letters, 2018, 40, 957-964.	2.2	6
96	Enhanced production of xylose from corncob hydrolysis with oxalic acid as catalyst. Bioprocess and Biosystems Engineering, 2018, 41, 57-64.	3.4	14
97	Biosynthesis of tert-butyl (3R,5S)-6-chloro-3,5-dihydroxyhexanoate by carbonyl reductase from Rhodosporidium toruloides in mono and biphasic media. Bioresource Technology, 2018, 249, 161-167.	9.6	59
98	Production of R-Mandelic Acid Using Nitrilase from Recombinant E. coli Cells Immobilized with Tris(Hydroxymethyl)Phosphine. Applied Biochemistry and Biotechnology, 2018, 184, 1024-1035.	2.9	16
99	Enhanced catalytic efficiency and enantioselectivity of epoxide hydrolase from Agrobacterium radiobacter AD1 by iterative saturation mutagenesis for (R)-epichlorohydrin synthesis. Applied Microbiology and Biotechnology, 2018, 102, 733-742.	3.6	23
100	Improvement of amphotericin B production by a newly isolated Streptomyces nodosus mutant. Biotechnology and Applied Biochemistry, 2018, 65, 188-194.	3.1	16
101	Colorimetric assay for active biomass quantification of Fusarium fujikuroi. Journal of Microbiological Methods, 2018, 155, 37-41.	1.6	10
102	Systematic Analysis of Bottlenecks in a Multibranched and Multilevel Regulated Pathway: The Molecular Fundamentals of <scp>l</scp>-Methionine Biosynthesis in Escherichia coli. ACS Synthetic Biology, 2018, 7, 2577-2589.	3.8	59
103	Biosynthesis of chiral epichlorohydrin using an immobilized halohydrin dehalogenase in aqueous and non-aqueous phase. Bioresource Technology, 2018, 263, 483-490.	9.6	27
104	Improvement of carbonyl reductase activity for the bioproduction of tert-butyl (3R,5S)-6-chloro-3,5-dihydroxyhexanoate. Bioorganic Chemistry, 2018, 80, 733-740.	4.1	20
105	Metabolic engineering of E. coli for the production of O-succinyl-l-homoserine with high yield. 3 Biotech, 2018, 8, 310.	2.2	18
106	Significant improvement of the nitrilase activity by semi-rational protein engineering and its application in the production of iminodiacetic acid. International Journal of Biological Macromolecules, 2018, 116, 563-571.	7.5	38
107	Significantly increased catalytic activity of Candida antarctica lipase B for the resolution of cis-(Â±)-dimethyl 1-acetylpiperidine-2,3-dicarboxylate. Catalysis Science and Technology, 2018, 8, 4718-4725.	4.1	22
108	Pedobacter quisquiliarum sp. nov., isolated from activated sludge. International Journal of Systematic and Evolutionary Microbiology, 2018, 68, 438-442.	1.7	13

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109	Enzymatic synthesis of an ezetimibe intermediate using carbonyl reductase coupled with glucose dehydrogenase in an aqueous-organic solvent system. Bioresource Technology, 2017, 229, 26-32.	9.6	71
110	Recent advances in biotechnological applications of alcohol dehydrogenases. Applied Microbiology and Biotechnology, 2017, 101, 987-1001.	3.6	134
111	Directed Evolution of Carbonyl Reductase from Rhodosporidium toruloides and Its Application in Stereoselective Synthesis of tert-Butyl (3R,5S)-6-Chloro-3,5-dihydroxyhexanoate. Journal of Agricultural and Food Chemistry, 2017, 65, 3721-3729.	5.2	45
112	Largeâ€scale synthesis of tertâ€butyl (3R,5S)â€6â€chloroâ€3,5â€dihydroxyhexanoate by a stereoselective carbonyl reductase with high substrate concentration and product yield. Biotechnology Progress, 2017, 33, 612-620.	2.6	19
113	Immobilization of Recombinant Glucose Isomerase for Efficient Production of High Fructose Corn Syrup. Applied Biochemistry and Biotechnology, 2017, 183, 293-306.	2.9	27
114	Mining and characterization of two novel chitinases from Hirsutella sinensis using an efficient transcriptome-mining approach. Protein Expression and Purification, 2017, 133, 81-89.	1.3	1
115	Simple-MSSM: a simple and efficient method for simultaneous multi-site saturation mutagenesis. Biotechnology Letters, 2017, 39, 567-575.	2.2	18
116	Chiral diol t -butyl 6-cyano-(3 R ,5 R)-dihydroxylhexanoate synthesis catalyzed by immobilized cells of carbonyl reductase and glucose dehydrogenase co-expression E. coli. Biochemical Engineering Journal, 2017, 128, 54-62.	3.6	15
117	Enhanced diastereoselective synthesis of tâ€Butyl 6â€cyanoâ€(3R,5R)â€dihydroxyhexanoate by using aldoâ€keto reductase and glucose dehydrogenase coâ€producing engineered Escherichia coli. Biotechnology Progress, 2017, 33, 1235-1242.	2.6	9
118	Improving catalytic performance of an arylacetonitrilase by semirational engineering. Bioprocess and Biosystems Engineering, 2017, 40, 1565-1572.	3.4	11
119	An NADPH-dependent Lactobacillus composti short-chain dehydrogenase/reductase: characterization and application to (R)-1-phenylethanol synthesis. World Journal of Microbiology and Biotechnology, 2017, 33, 144.	3.6	13
120	Metabolic engineering of Escherichia coli for microbial production of Lâ€methionine. Biotechnology and Bioengineering, 2017, 114, 843-851.	3.3	64
121	Enhancement of Nucleoside Production in Hirsutella sinensis Based on Biosynthetic Pathway Analysis. BioMed Research International, 2017, 2017, 1-11.	1.9	7
122	Flavobacterium quisquiliarum sp. nov., isolated from activated sludge. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 3965-3970.	1.7	12
123	Isolation of fructose from highâ€fructose corn syrup with calcium immobilized strong acid cation exchanger: Isotherms, kinetics, and fixedâ€bed chromatography study. Canadian Journal of Chemical Engineering, 2016, 94, 537-546.	1.7	9
124	R-mandelic acid production with immobilized recombinant Escherichia coli cells in a recirculating packed bed reactor. Biocatalysis and Biotransformation, 2016, 34, 205-211.	2.0	5
125	Immobilization of nitrilase on bioinspired silica for efficient synthesis of 2-hydroxy-4-(methylthio) butanoic acid from 2-hydroxy-4-(methylthio) butanenitrile. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 585-593.	3.0	14
126	Enhancement of cordyceps polysaccharide production via biosynthetic pathway analysis in Hirsutella sinensis. International Journal of Biological Macromolecules, 2016, 92, 872-880.	7.5	20

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127	Efficient biosynthesis of ethyl (R)-4-chloro-3-hydroxybutyrate using a stereoselective carbonyl reductase from Burkholderia gladioli. BMC Biotechnology, 2016, 16, 70.	3.3	19
128	Application of CRISPRi in Corynebacterium glutamicum for shikimic acid production. Biotechnology Letters, 2016, 38, 2153-2161.	2.2	50
129	Enantioselective cascade biocatalysis for deracemization of 2-hydroxy acids using a three-enzyme system. Microbial Cell Factories, 2016, 15, 162.	4.0	14
130	Nitrilaseâ€catalyzed conversion of (R,S)â€mandelonitrile by immobilized recombinant Escherichia coli cells harboring nitrilase. Biotechnology and Applied Biochemistry, 2016, 63, 479-489.	3.1	18
131	High-throughput screening methods for nitrilases. Applied Microbiology and Biotechnology, 2016, 100, 3421-3432.	3.6	23
132	Chemoenzymatic synthesis of (S)-duloxetine using carbonyl reductase from Rhodosporidium toruloides. Bioorganic Chemistry, 2016, 65, 82-89.	4.1	36
133	Biosynthetic Pathway Analysis for Improving the Cordycepin and Cordycepic Acid Production in Hirsutella sinensis. Applied Biochemistry and Biotechnology, 2016, 179, 633-649.	2.9	40
134	A Oneâ€Step Biocatalytic Process for (S)â€4â€Chloroâ€3â€hydroxybutyronitrile using Halohydrin Dehalogenase: A Chiral Building Block for Atorvastatin. ChemCatChem, 2015, 7, 2446-2450.	3.7	17
135	Transcriptome sequencing and analysis of the entomopathogenic fungus Hirsutella sinensis isolated from Ophiocordyceps sinensis. BMC Genomics, 2015, 16, 106.	2.8	30
136	Efficient two-step chemo-enzymatic synthesis of all-trans-retinyl palmitate with high substrate concentration and product yield. Applied Microbiology and Biotechnology, 2015, 99, 8891-8902.	3.6	15
137	Improvement and characterization of a hyperthermophilic glucose isomerase from Thermoanaerobacter ethanolicus and its application in production of high fructose corn syrup. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 1091-1103.	3.0	28
138	Asymmetric synthesis of optically active methyl-2-benzamido-methyl-3-hydroxy-butyrate by robust short-chain alcohol dehydrogenases from Burkholderia gladioli. Chemical Communications, 2015, 51, 12328-12331.	4.1	21
139	Biochemical characterization and biosynthetic application of a halohydrin dehalogenase from Tistrella mobilis ZJB1405. Journal of Molecular Catalysis B: Enzymatic, 2015, 115, 105-112.	1.8	14
140	Chemoenzymatic synthesis of gabapentin by combining nitrilase-mediated hydrolysis with hydrogenation over Raney-nickel. Catalysis Communications, 2015, 66, 121-125.	3.3	25
141	Engineering the epoxide hydrolase from Agromyces mediolanus for enhanced enantioselectivity and activity in the kinetic resolution of racemic epichlorohydrin. RSC Advances, 2015, 5, 31525-31532.	3.6	19
142	Design of Nitrilases with Superior Activity and Enantioselectivity towards Sterically Hindered Nitrile by Protein Engineering. Advanced Synthesis and Catalysis, 2015, 357, 1741-1750.	4.3	34
143	An efficient high-throughput screening assay for rapid directed evolution of halohydrin dehalogenase for preparation of Î²-substituted alcohols. Applied Microbiology and Biotechnology, 2015, 99, 4019-4029.	3.6	16
144	An enzymatic method for determination of azide and cyanide in aqueous phase. Journal of Biotechnology, 2015, 214, 27-32.	3.8	10

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145	Cloning, expression and enzymatic characterization of an aldo-keto reductase from Candida albicans XP1463. Journal of Molecular Catalysis B: Enzymatic, 2015, 122, 44-50.	1.8	21
146	Efficient synthesis of (S)-epichlorohydrin in high yield by cascade biocatalysis with halohydrin dehalogenase and epoxide hydrolase mutants. Catalysis Communications, 2015, 72, 147-149.	3.3	20
147	Upscale production of ethyl (S)-4-chloro-3-hydroxybutanoate by using carbonyl reductase coupled with glucose dehydrogenase in aqueous-organic solvent system. Applied Microbiology and Biotechnology, 2015, 99, 2119-2129.	3.6	49
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