

Zhina Qiao

List of Publications by Year in Descending Order

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

78 papers	1,001 citations	18 h-index	26 g-index
92 ext. papers	1,304 ext. citations	5.2 avg, IF	4.33 L-index

#	Paper	IF	Citations
78	High-level production of the agmatine in engineered <i>Corynebacterium crenatum</i> with the inhibition-releasing arginine decarboxylase.. <i>Microbial Cell Factories</i> , 2022 , 21, 16	6.4	1
77	Efficient D-allulose synthesis under acidic conditions by auto-inducing expression of the tandem D-allulose 3-epimerase genes in <i>Bacillus subtilis</i> .. <i>Microbial Cell Factories</i> , 2022 , 21, 63	6.4	1
76	Citrulline deiminase pathway provides ATP and boosts growth of <i>Clostridium carboxidivorans</i> P7. <i>Biotechnology for Biofuels</i> , 2021 , 14, 204	7.8	1
75	Semi-quantitative activity assays for high-throughput screening of higher activity gamma glutamyl transferase and enzyme immobilization to efficiently synthesize L-theanine. <i>Journal of Biotechnology</i> , 2021 , 330, 9-16	3.7	3
74	Efficient single whole-cell biotransformation for L-2-aminobutyric acid production through engineering of leucine dehydrogenase combined with expression regulation. <i>Bioresource Technology</i> , 2021 , 326, 124665	11	3
73	Enhanced production of L-arginine by improving carbamoyl phosphate supply in metabolically engineered <i>Corynebacterium crenatum</i> . <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 3265-3276	5.7	1
72	Rational engineering of the <i>Plasmodium falciparum</i> -lactate dehydrogenase loop involved in catalytic proton transfer to improve chiral 2-hydroxybutyric acid production. <i>International Journal of Biological Macromolecules</i> , 2021 , 179, 71-79	7.9	1
71	Integrated gene engineering synergistically improved substrate-product transport, cofactor generation and gene translation for cadaverine biosynthesis in <i>E. coli</i> . <i>International Journal of Biological Macromolecules</i> , 2021 , 169, 8-17	7.9	3
70	Cascade biocatalysis for production of enantiopure (S)-2-hydroxybutyric acid using recombinant <i>Escherichia coli</i> with a tunable multi-enzyme-coordinate expression system. <i>Systems Microbiology and Biomanufacturing</i> , 2021 , 1, 234-244		3
69	Redistribution of Intracellular Metabolic Flow in Improves Carbon Atom Economy for High-Yield 2,5-Dimethylpyrazine Production. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 2512-2521	5.7	1
68	Engineering of microbial cells for L-valine production: challenges and opportunities. <i>Microbial Cell Factories</i> , 2021 , 20, 172	6.4	2
67	Microbial production of riboflavin: Biotechnological advances and perspectives. <i>Metabolic Engineering</i> , 2021 , 68, 46-58	9.7	1
66	Enhancing l-glutamine production in <i>Corynebacterium glutamicum</i> by rational metabolic engineering combined with a two-stage pH control strategy. <i>Bioresource Technology</i> , 2021 , 341, 125799 ¹¹		4
65	MarR-type transcription factor RosR regulates glutamate metabolism network and promotes accumulation of L-glutamate in <i>Corynebacterium glutamicum</i> G01. <i>Bioresource Technology</i> , 2021 , 342, 125945	11	0
64	One-dimensional consolidation of layered soils under ramp load based on continuous drainage boundary. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021 , 45, 738-752 ⁴		4
63	Biotechnological Innovations and Therapeutic Application of <i>Pediococcus</i> and Lactic Acid Bacteria: The Next-Generation Microorganism.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 802031	5.8	1
62	Production of d-Tagatose by Whole-Cell Conversion of Recombinant in the Absence of Antibiotics.. <i>Biology</i> , 2021 , 10,	4.9	2

61	One-Pot Biocatalytic Preparation of Enantiopure Unusual β -Amino Acids from β -Hydroxy Acids via a Hydrogen-Borrowing Dual-Enzyme Cascade. <i>Catalysts</i> , 2020 , 10, 1470	4	1
60	Optimization of L-arginine purification from <i>Corynebacterium crenatum</i> fermentation broth. <i>Journal of Separation Science</i> , 2020 , 43, 2936-2948	3.4	2
59	Directed Evolution of Ornithine Cyclodeaminase Using an EvolvR-Based Growth-Coupling Strategy for Efficient Biosynthesis of L-Proline. <i>ACS Synthetic Biology</i> , 2020 , 9, 1855-1863	5.7	9
58	Development of a Novel Biosensor-Driven Mutation and Selection System via Growth of for the Production of L-Arginine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 175	5.8	6
57	LysR-Type Transcriptional Regulator MetR Controls Prodigiosin Production, Methionine Biosynthesis, Cell Motility, HO Tolerance, Heat Tolerance, and Exopolysaccharide Synthesis in <i>Serratia marcescens</i> . <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	18
56	One-dimensional consolidation of soil under multistage load based on continuous drainage boundary. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020 , 44, 1170-1183	4.3	12
55	PII Signal Transduction Protein GlnK Alleviates Feedback Inhibition of γ -Acetyl-L-Glutamate Kinase by L-Arginine in <i>Corynebacterium glutamicum</i> . <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	6
54	Significantly enhancing production of γ -4-hydroxy-L-proline by integrated system engineering in. <i>Science Advances</i> , 2020 , 6, eaba2383	14.3	15
53	Surface charge-based rational design of aspartase modifies the optimal pH for efficient β -aminobutyric acid production. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 4165-4172	7.9	5
52	Engineered disulfide bonds improve thermostability and activity of L-isoleucine hydroxylase for efficient 4-HIL production in 168. <i>Engineering in Life Sciences</i> , 2020 , 20, 7-16	3.4	6
51	Asp305Gly mutation improved the activity and stability of the styrene monooxygenase for efficient epoxide production in <i>Pseudomonas putida</i> KT2440. <i>Microbial Cell Factories</i> , 2019 , 18, 12	6.4	10
50	Enhancement of L-arginine production by increasing ammonium uptake in an AmtR-deficient <i>Corynebacterium crenatum</i> mutant. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019 , 46, 1155-1166	4.2	5
49	Designing of a Cofactor Self-Sufficient Whole-Cell Biocatalyst System for Production of 1,2-Amino Alcohols from Epoxides. <i>ACS Synthetic Biology</i> , 2019 , 8, 734-743	5.7	21
48	Improving the Production of Salt-Tolerant Glutaminase by Integrating Multiple Copies of into the Protease and Genes of 168. <i>Molecules</i> , 2019 , 24,	4.8	5
47	Rational Engineering of <i>Bacillus cereus</i> Leucine Dehydrogenase Towards β -keto Acid Reduction for Improving Unnatural Amino Acid Production. <i>Biotechnology Journal</i> , 2019 , 14, e1800253	5.6	14
46	Synthetic engineering of <i>Corynebacterium crenatum</i> to selectively produce acetoin or 2,3-butanediol by one step bioconversion method. <i>Microbial Cell Factories</i> , 2019 , 18, 128	6.4	3
45	A Novel 3-Phytosterone-9 β -Hydroxylase Oxygenation Component and Its Application in Bioconversion of 4-Androstene-3,17-Dione to 9 β -Hydroxy-4-Androstene-3,17-Dione Coupling with A NADH Regeneration Formate Dehydrogenase. <i>Molecules</i> , 2019 , 24,	4.8	3
44	Enhanced extracellular gamma glutamyl transpeptidase production by overexpressing of PrsA lipoproteins and improving its mRNA stability in <i>Bacillus subtilis</i> and application in biosynthesis of L-theanine. <i>Journal of Biotechnology</i> , 2019 , 302, 85-91	3.7	12

43	Insight into the thermostability of thermophilic L-asparaginase and non-thermophilic L-asparaginase II through bioinformatics and structural analysis. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 7055-7070	5.7	9
42	Lys-Arg mutation improved the thermostability of <i>Bacillus cereus</i> neutral protease through increased residue interactions. <i>World Journal of Microbiology and Biotechnology</i> , 2019 , 35, 173	4.4	5
41	Identification of steroid C27 monooxygenase isoenzymes involved in sterol catabolism and stepwise pathway engineering of <i>Mycobacterium neoaurum</i> for improved androst-1,4-diene-3,17-dione production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019 , 46, 635-647	4.2	8
40	Intracellular Environment Improvement of for Enhancing Androst-1,4-Diene-3,17-Dione Production by Manipulating NADH and Reactive Oxygen Species Levels. <i>Molecules</i> , 2019 , 24,	4.8	6
39	Loss of Serine-Type D-Ala-D-Ala Carboxypeptidase DacA Enhances Prodigiosin Production in. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 367	5.8	9
38	Effect of selected strains on physical and organoleptic properties of breads. <i>Food Chemistry</i> , 2019 , 276, 547-553	8.5	6
37	Efficient biosynthesis of L-phenylglycine by an engineered <i>Escherichia coli</i> with a tunable multi-enzyme-coordinate expression system. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 2129-2141	5.7	17
36	Improved L-ornithine production in <i>Corynebacterium crenatum</i> by introducing an artificial linear transacetylation pathway. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018 , 45, 393-404	4.2	11
35	Improved thermostability and catalytic efficiency of overexpressed catalase from <i>B. pumilus</i> ML 413 (KatX2) by introducing disulfide bond C286-C289. <i>Enzyme and Microbial Technology</i> , 2018 , 119, 10-16	3.8	5
34	Relieving Allosteric Inhibition by Designing Active Inclusion Bodies and Coating of the Inclusion Bodies with Fe ₃ O ₄ Nanomaterials for Sustainable 2-Oxobutyric Acid Production. <i>ACS Catalysis</i> , 2018 , 8, 8889-8901	13.1	7
33	Simultaneous cell disruption and semi-quantitative activity assays for high-throughput screening of thermostable L-asparaginases. <i>Scientific Reports</i> , 2018 , 8, 7915	4.9	20
32	Effects of Geniposide from Gardenia Fruit Pomace on Skeletal-Muscle Fibrosis. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 5802-5811	5.7	9
31	Effects of functional Eglucan on proliferation, differentiation, metabolism and its anti-fibrosis properties in muscle cells. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 287-293	7.9	8
30	Enhanced intracellular soluble production of 3-ketosteroid- Δ -dehydrogenase from <i>Mycobacterium neoaurum</i> in <i>Escherichia coli</i> and its application in the androst-1,4-diene-3,17-dione production. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 350-357	3.5	8
29	Improvement of the ammonia assimilation for enhancing L-arginine production of <i>Corynebacterium crenatum</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017 , 44, 443-451	4.2	14
28	Optimized whole cell biocatalyst from acetoin to 2,3-butanediol through coexpression of acetoin reductase with NADH regeneration systems in engineered <i>Bacillus subtilis</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 2477-2487	3.5	11
27	Metabolic engineering strategies for acetoin and 2,3-butanediol production: advances and prospects. <i>Critical Reviews in Biotechnology</i> , 2017 , 37, 990-1005	9.4	51
26	Reengineering of the feedback-inhibition enzyme N-acetyl-L-glutamate kinase to enhance L-arginine production in <i>Corynebacterium crenatum</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017 , 44, 271-283	4.2	11

25	Efficient production of d-amino acid oxidase in Escherichia coli by a trade-off between its expression and biomass using N-terminal modification. <i>Bioresource Technology</i> , 2017 , 243, 716-723	11	3
24	Elimination of a Free Cysteine by Creation of a Disulfide Bond Increases the Activity and Stability of Candida boidinii Formate Dehydrogenase. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	27
23	Amino acid residues adjacent to the catalytic cavity of tetramer L-asparaginase II contribute significantly to its catalytic efficiency and thermostability. <i>Enzyme and Microbial Technology</i> , 2016 , 82, 15-22	3.8	22
22	Efficient 9Hydroxy-4-androstene-3,17-dione production by engineered Bacillus subtilis co-expressing Mycobacterium neoaurum 3-ketosteroid 9Hydroxylase and B. subtilis glucose 1-dehydrogenase with NADH regeneration. <i>SpringerPlus</i> , 2016 , 5, 1207		5
21	Systems pathway engineering of Corynebacterium crenatum for improved L-arginine production. <i>Scientific Reports</i> , 2016 , 6, 28629	4.9	40
20	Controlling the transcription levels of argGH redistributed L-arginine metabolic flux in N-acetylglutamate kinase and ArgR-deregulated Corynebacterium crenatum. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016 , 43, 55-66	4.2	9
19	A mutant form of 3-ketosteroid-(11)-dehydrogenase gives altered androst-1,4-diene-3, 17-dione/androst-4-ene-3,17-dione molar ratios in steroid biotransformations by Mycobacterium neoaurum ST-095. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016 , 43, 691-701	4.2	20
18	Effect of Polyhydroxybutyrate (PHB) storage on L-arginine production in recombinant Corynebacterium crenatum using coenzyme regulation. <i>Microbial Cell Factories</i> , 2016 , 15, 15	6.4	23
17	Efficient testosterone production by engineered Pichia pastoris co-expressing human 17Hydroxysteroid dehydrogenase type 3 and Saccharomyces cerevisiae glucose 6-phosphate dehydrogenase with NADPH regeneration. <i>Green Chemistry</i> , 2016 , 18, 1774-1784	10	40
16	Improvement of the intracellular environment for enhancing l-arginine production of Corynebacterium glutamicum by inactivation of HO-forming flavin reductases and optimization of ATP supply. <i>Metabolic Engineering</i> , 2016 , 38, 310-321	9.7	35
15	Cloning and identification of a novel tyrosinase and its overexpression in Streptomyces kathirae SC-1 for enhancing melanin production. <i>FEMS Microbiology Letters</i> , 2015 , 362, fnv041	2.9	14
14	Metabolic engineering of Bacillus subtilis for redistributing the carbon flux to 2,3-butanediol by manipulating NADH levels. <i>Biotechnology for Biofuels</i> , 2015 , 8, 129	7.8	24
13	Construction of a highly efficient Bacillus subtilis 168 whole-cell biocatalyst and its application in the production of L-ornithine. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015 , 42, 1427-37	4.2	14
12	Enhanced 2,3-butanediol production from biodiesel-derived glycerol by engineering of cofactor regeneration and manipulating carbon flux in Bacillus amyloliquefaciens. <i>Microbial Cell Factories</i> , 2015 , 14, 122	6.4	39
11	Enhancement of the thermostability of Streptomyces kathirae SC-1 tyrosinase by rational design and empirical mutation. <i>Enzyme and Microbial Technology</i> , 2015 , 77, 54-60	3.8	16
10	Bioconversion of cholesterol to 4-cholesten-3-one by recombinant Bacillus subtilis expressing choM gene encoding cholesterol oxidase from Mycobacterium neoaurum JC-12. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1811-1820	3.5	13
9	Enhanced Production of Androst-1,4-Diene-3,17-Dione by Mycobacterium neoaurum JC-12 Using Three-Stage Fermentation Strategy. <i>PLoS ONE</i> , 2015 , 10, e0137658	3.7	26
8	Efficient one-step preparation of ̢aminobutyric acid from glucose without an exogenous cofactor by the designed Corynebacterium glutamicum. <i>Green Chemistry</i> , 2014 , 16, 4190-4197	10	22

7	The rebalanced pathway significantly enhances acetoin production by disruption of acetoin reductase gene and moderate-expression of a new water-forming NADH oxidase in <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2014 , 23, 34-41	9.7	81
6	The role of ARGR repressor regulation on L-arginine production in <i>Corynebacterium crenatum</i> . <i>Applied Biochemistry and Biotechnology</i> , 2013 , 170, 587-97	3.2	14
5	The effect of a LYSE exporter overexpression on L-arginine production in <i>Corynebacterium crenatum</i> . <i>Current Microbiology</i> , 2013 , 67, 271-8	2.4	12
4	Site-directed mutagenesis studies on the L-arginine-binding sites of feedback inhibition in N-acetyl-L-glutamate kinase (NAGK) from <i>Corynebacterium glutamicum</i> . <i>Current Microbiology</i> , 2012 , 64, 164-72	2.4	15
3	Heterologous and homologous expression of the arginine biosynthetic argC~H cluster from <i>Corynebacterium crenatum</i> for improvement of (L) -arginine production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012 , 39, 495-502	4.2	27
2	Site-directed mutagenesis and feedback-resistant N-acetyl-L-glutamate kinase (NAGK) increase <i>Corynebacterium crenatum</i> L-arginine production. <i>Amino Acids</i> , 2012 , 43, 255-66	3.5	26
1	Enhanced production of L-arginine by expression of <i>Vitreoscilla</i> hemoglobin using a novel expression system in <i>Corynebacterium crenatum</i> . <i>Applied Biochemistry and Biotechnology</i> , 2011 , 163, 707-19	3.2	30