

Zhi-Ming Rao

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116
papers

1,402
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h-index

30
g-index

138
ext. papers

1,876
ext. citations

5.6
avg, IF

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L-index

#	Paper	IF	Citations
116	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
115	Cloning, expression, and characterization of L-asparaginase from a newly isolated <i>Bacillus subtilis</i> B11-06. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 9428-34	5.7	67
114	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
113	Isolation and identification of an acetoin high production bacterium that can reverse transform 2,3-butanediol to acetoin at the decline phase of fermentation. <i>World Journal of Microbiology and Biotechnology</i> , 2011 , 27, 2785-2790	4.4	44
112	Systems pathway engineering of <i>Corynebacterium crenatum</i> for improved L-arginine production. <i>Scientific Reports</i> , 2016 , 6, 28629	4.9	40
111	Efficient testosterone production by engineered <i>Pichia pastoris</i> co-expressing human 17 β -hydroxysteroid dehydrogenase type 3 and <i>Saccharomyces cerevisiae</i> glucose 6-phosphate dehydrogenase with NADPH regeneration. <i>Green Chemistry</i> , 2016 , 18, 1774-1784	10	40
110	Enhanced 2,3-butanediol production from biodiesel-derived glycerol by engineering of cofactor regeneration and manipulating carbon flux in <i>Bacillus amyloliquefaciens</i> . <i>Microbial Cell Factories</i> , 2015 , 14, 122	6.4	39
109	Efficient whole-cell biocatalyst for acetoin production with NAD ⁺ regeneration system through homologous co-expression of 2,3-butanediol dehydrogenase and NADH oxidase in engineered <i>Bacillus subtilis</i> . <i>PLoS ONE</i> , 2014 , 9, e102951	3.7	37
108	Improvement of the intracellular environment for enhancing L-arginine production of <i>Corynebacterium glutamicum</i> by inactivation of HO-forming flavin reductases and optimization of ATP supply. <i>Metabolic Engineering</i> , 2016 , 38, 310-321	9.7	35
107	Bioconversion of 4-androstene-3,17-dione to androst-1,4-diene-3,17-dione by recombinant <i>Bacillus subtilis</i> expressing ksdd gene encoding 3-ketosteroid- Δ^1 -dehydrogenase from <i>Mycobacterium neoaurum</i> JC-12. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013 , 135, 36-42	5.1	33
106	Regulation of the NADH pool and NADH/NADPH ratio redistributes acetoin and 2,3-butanediol proportion in <i>Bacillus subtilis</i> . <i>Biotechnology Journal</i> , 2015 , 10, 1298-306	5.6	31
105	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
104	Elimination of a Free Cysteine by Creation of a Disulfide Bond Increases the Activity and Stability of <i>Candida boidinii</i> Formate Dehydrogenase. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	27
103	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
102	Enhanced Production of Androst-1,4-Diene-3,17-Dione by <i>Mycobacterium neoaurum</i> JC-12 Using Three-Stage Fermentation Strategy. <i>PLoS ONE</i> , 2015 , 10, e0137658	3.7	26
101	Two-stage pH control strategy based on the pH preference of acetoin reductase regulates acetoin and 2,3-butanediol distribution in <i>Bacillus subtilis</i> . <i>PLoS ONE</i> , 2014 , 9, e91187	3.7	25
100	Metabolic engineering of <i>Bacillus subtilis</i> for redistributing the carbon flux to 2,3-butanediol by manipulating NADH levels. <i>Biotechnology for Biofuels</i> , 2015 , 8, 129	7.8	24

99	Effect of Polyhydroxybutyrate (PHB) storage on L-arginine production in recombinant <i>Corynebacterium crenatum</i> using coenzyme regulation. <i>Microbial Cell Factories</i> , 2016 , 15, 15	6.4	23
98	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
97	Efficient one-step preparation of β -aminobutyric acid from glucose without an exogenous cofactor by the designed <i>Corynebacterium glutamicum</i> . <i>Green Chemistry</i> , 2014 , 16, 4190-4197	10	22
96	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
95	A mutant form of 3-ketosteroid-(1)-dehydrogenase gives altered androst-1,4-diene-3, 17-dione/androst-4-ene-3,17-dione molar ratios in steroid biotransformations by <i>Mycobacterium neoaurum</i> ST-095. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016 , 43, 691-701	4.2	20
94	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
93	Enhancement of steroid hydroxylation yield from dehydroepiandrosterone by cyclodextrin complexation technique. <i>Steroids</i> , 2014 , 84, 70-7	2.8	20
92	Construction of a novel recombinant <i>Escherichia coli</i> strain capable of producing 1,3-Propanediol and optimization of fermentation parameters by statistical design. <i>World Journal of Microbiology and Biotechnology</i> , 2006 , 22, 945-952	4.4	20
91	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
90	Regulatory protein SrpA controls phage infection and core cellular processes in <i>Pseudomonas aeruginosa</i> . <i>Nature Communications</i> , 2018 , 9, 1846	17.4	18
89	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
88	Enhanced riboflavin production by recombinant <i>Bacillus subtilis</i> RF1 through the optimization of agitation speed. <i>World Journal of Microbiology and Biotechnology</i> , 2014 , 30, 661-7	4.4	17
87	Enhancement of the thermostability of <i>Streptomyces kathirae</i> SC-1 tyrosinase by rational design and empirical mutation. <i>Enzyme and Microbial Technology</i> , 2015 , 77, 54-60	3.8	16
86	Significantly enhancing production of γ -4-hydroxy-L-proline by integrated system engineering in. <i>Science Advances</i> , 2020 , 6, eaba2383	14.3	15
85	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
84	Comparative investigation on metabolite changes in flavonoid production by <i>Vaccinium bracteatum</i> Thunb. leaves based on multivariate data analysis using UPLC-QToF-MS. <i>Food Chemistry</i> , 2019 , 286, 146-153	8.5	14
83	Cloning and identification of a novel tyrosinase and its overexpression in <i>Streptomyces kathirae</i> SC-1 for enhancing melanin production. <i>FEMS Microbiology Letters</i> , 2015 , 362, fmv041	2.9	14
82	Construction of a highly efficient <i>Bacillus subtilis</i> 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

81	Rational Engineering of Bacillus cereus Leucine Dehydrogenase Towards α -keto Acid Reduction for Improving Unnatural Amino Acid Production. <i>Biotechnology Journal</i> , 2019 , 14, e1800253	5.6	14
80	The role of ARGR repressor regulation on L-arginine production in Corynebacterium crenatum. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 170, 587-97	3.2	14
79	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
78	Glu56Ser mutation improves the enzymatic activity and catalytic stability of Bacillus subtilis L-aspartate decarboxylase for an efficient L-alanine production. <i>Process Biochemistry</i> , 2018 , 70, 117-123	4.8	13
77	Improvement of NADPH-dependent P450-mediated biotransformation of 7 β -hydroxy-DHEA from DHEA by a dual cosubstrate-coupled system. <i>Steroids</i> , 2015 , 101, 15-20	2.8	13
76	Enhanced extracellular gamma glutamyl transpeptidase production by overexpressing of PrsA lipoproteins and improving its mRNA stability in Bacillus subtilis and application in biosynthesis of L-theanine. <i>Journal of Biotechnology</i> , 2019 , 302, 85-91	3.7	12
75	The effect of a LYSE exporter overexpression on L-arginine production in Corynebacterium crenatum. <i>Current Microbiology</i> , 2013 , 67, 271-8	2.4	12
74	Optimized whole cell biocatalyst from acetoin to 2,3-butanediol through coexpression of acetoin reductase with NADH regeneration systems in engineered Bacillus subtilis. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 2477-2487	3.5	11
73	Reengineering of the feedback-inhibition enzyme N-acetyl-L-glutamate kinase to enhance L-arginine production in Corynebacterium crenatum. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017 , 44, 271-283	4.2	11
72	Biofunctionalized "Kiwifruit-Assembly" of Oxidoreductases in Mesoporous ZnO/Carbon Nanoparticles for Efficient Asymmetric Catalysis. <i>Advanced Materials</i> , 2018 , 30, 1705443	2.4	11
71	Improved L-ornithine production in Corynebacterium crenatum by introducing an artificial linear transacetylation pathway. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018 , 45, 393-404	4.2	11
70	Asp305Gly mutation improved the activity and stability of the styrene monooxygenase for efficient epoxide production in Pseudomonas putida KT2440. <i>Microbial Cell Factories</i> , 2019 , 18, 12	6.4	10
69	Mutation breeding of high 4-androstene-3,17-dione-producing Mycobacterium neoaurum ZADF-4 by atmospheric and room temperature plasma treatment. <i>Journal of Zhejiang University: Science B</i> , 2015 , 16, 286-95	4.5	10
68	Development of a multi-enzymatic desymmetrization and its application for the biosynthesis of L-norvaline from dl-norvaline. <i>Process Biochemistry</i> , 2017 , 55, 104-109	4.8	9
67	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
66	Improved Prodigiosin Production by Relieving CpxR Temperature-Sensitive Inhibition. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 344	5.8	9
65	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
64	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

63	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
62	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
61	Enhanced intracellular soluble production of 3-ketosteroid- Δ^1 -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
60	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
59	Effects of functional β -glucan 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
58	Metabolic engineering of <i>Bacillus subtilis</i> for enhancing riboflavin production by alleviating dissolved oxygen limitation. <i>Bioresource Technology</i> , 2021 , 333, 125228	11	8
57	Cloning and Expression of a Novel Leucine Dehydrogenase: Characterization and L-Leucine Production. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 186	5.8	7
56	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
55	PII Signal Transduction Protein GlnK Alleviates Feedback Inhibition of α -Acetyl-L-Glutamate Kinase by L-Arginine in <i>Corynebacterium glutamicum</i> . <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	6
54	Effect of ultrasound-assisted thawing on gelling and 3D printing properties of silver carp surimi. <i>Food Research International</i> , 2021 , 145, 110405	7	6
53	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
52	Effect of selected strains on physical and organoleptic properties of breads. <i>Food Chemistry</i> , 2019 , 276, 547-553	8.5	6
51	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
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	4.7	5
49	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
48	Characterization of promising natural blue pigment from <i>Vaccinium bracteatum</i> thunb. leaves: Insights of the stability and the inhibition of α -amylase. <i>Food Chemistry</i> , 2020 , 326, 126962	8.5	5
47	Sesame flavour baijiu: a review. <i>Journal of the Institute of Brewing</i> , 2020 , 126, 224-232	2	5
46	Efficient 9 β -hydroxy-4-androstene-3,17-dione production by engineered <i>Bacillus subtilis</i> co-expressing <i>Mycobacterium neoaurum</i> 9 β -hydroxylase and <i>B. subtilis</i> glucose 1-dehydrogenase with NADH regeneration. <i>SpringerPlus</i> , 2016 , 5, 1207		5

45	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
44	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
43	A novel green synthesis approach for natural bluish-violet pigments derived from water extracts of <i>Vaccinium bracteatum</i> Thunb. leaves. <i>Industrial Crops and Products</i> , 2019 , 142, 111862	5.9	5
42	A Negative Regulator of Carotenogenesis in. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	5
41	Surface charge-based rational design of aspartase modifies the optimal pH for efficient L-aminobutyric acid production. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 4165-4172	7.9	5
40	Heterologous expression and characterization of a new heme-catalase in <i>Bacillus subtilis</i> 168. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016 , 43, 729-40	4.2	5
39	Regulator RcsB Controls Prodigiosin Synthesis and Various Cellular Processes in <i>Serratia marcescens</i> JNB5-1. <i>Applied and Environmental Microbiology</i> , 2021 , 87,	4.8	4
38	Identification of bottlenecks in 4-androstene-3,17-dione/1,4-androstadiene-3,17-dione synthesis by <i>Mycobacterium neoaurum</i> JC-12 through comparative proteomics. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 131, 264-270	3.3	4
37	Epsilon-poly-L-lysine: Recent Advances in Biomanufacturing and Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 748976	5.8	4
36	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
35	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
34	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
33	Efficient production of d-amino acid oxidase in <i>Escherichia coli</i> by a trade-off between its expression and biomass using N-terminal modification. <i>Bioresource Technology</i> , 2017 , 243, 716-723	11	3
32	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
31	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
30	Engineering the 2,3-BD pathway in <i>Bacillus subtilis</i> by shifting the carbon flux in favor of 2,3-BD synthesis. <i>Biochemical Engineering Journal</i> , 2021 , 169, 107969	4.2	3
29	<i>Blakeslea trispora</i> Photoreceptors: Identification and Functional Analysis. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	3
28	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

27	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
26	PsrA is a novel regulator contributes to antibiotic synthesis, bacterial virulence, cell motility and extracellular polysaccharides production in <i>Serratia marcescens</i> . <i>Nucleic Acids Research</i> , 2021 ,	20.1	3
25	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
24	Comparative transcriptome analysis reveals metabolic regulation of prodigiosin in <i>Serratia marcescens</i> . <i>Systems Microbiology and Biomanufacturing</i> , 2021 , 1, 323-335		2
23	Hepatoprotective ability of tetramethylpyrazine produced by <i>Bacillus amyloliquefaciens</i> . <i>Systems Microbiology and Biomanufacturing</i> , 2021 , 1, 223-233		2
22	Engineering of microbial cells for L-valine production: challenges and opportunities. <i>Microbial Cell Factories</i> , 2021 , 20, 172	6.4	2
21	Production of d-Tagatose by Whole-Cell Conversion of Recombinant in the Absence of Antibiotics.. <i>Biology</i> , 2021 , 10,	4.9	2
20	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
19	A genetic transformation system based on <i>trp1</i> complementation in <i>Candida glycerinogenes</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2011 , 27, 1005-1008	4.4	1
18	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
17	Enhancing β -alanine production from glucose in genetically modified <i>Corynebacterium glutamicum</i> by metabolic pathway engineering. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 9153-9166	5.7	1
16	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
15	Isolation and Identification of an Efficient Aerobic Denitrifying <i>Pseudomonas stutzeri</i> Strain and Characterization of Its Nitrite Degradation. <i>Catalysts</i> , 2021 , 11, 1214	4	1
14	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
13	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
12	Development of cellulose nanofibrils reinforced polyvinyl alcohol films incorporated with alizarin for intelligent food packaging. <i>International Journal of Food Science and Technology</i> , 2021 , 56, 4248-4257	3.8	1
11	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
10	<i>Vaccinium bracteatum</i> Thunb. as a promising resource of bioactive compounds with health benefits: An updated review. <i>Food Chemistry</i> , 2021 , 356, 129738	8.5	1

9	Microbial production of riboflavin: Biotechnological advances and perspectives. <i>Metabolic Engineering</i> , 2021 , 68, 46-58	9.7	1
8	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
7	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
6	Identification of a novel cytochrome P450 17A2 enzyme catalyzing the C17 β -hydroxylation of progesterone and its application in engineered <i>Pichia pastoris</i> . <i>Biochemical Engineering Journal</i> , 2021 , 177, 108264	4.2	0
5	Evaluation of the physicochemical properties and in vitro digestibility of the complex formed between rice starch and a novel pigment from <i>Vaccinium bracteatum</i> Thunb. leaf. <i>Food Chemistry</i> , 2021 , 374, 131627	8.5	0
4	Enhancing the biotransformation efficiency of human CYP17A1 in <i>Pichia pastoris</i> by co-expressing CPR and glucose-6-phosphate dehydrogenase simultaneously. <i>Systems Microbiology and Biomanufacturing</i> , 1		0
3	L-valine production in <i>Corynebacterium glutamicum</i> based on systematic metabolic engineering: progress and prospects. <i>Amino Acids</i> , 2021 , 53, 1301-1312	3.5	0
2	Enhanced Prodigiosin Production in JNB5-1 by Introduction of a Polynucleotide Fragment into the 3' Untranslated Region and Disulfide Bonds into -Methyl Transferase (PigF). <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0054321	4.8	0
1	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