Dawei Zhang

List of Publications by Year
in descending order

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77	2,347	218677	243625
papers	citations	26 h-index	44 g-index

84	84	84	2315
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Melatonin biosynthesis pathways in nature and its production in engineered microorganisms. Synthetic and Systems Biotechnology, 2022, 7, 544-553.	3.7	21
2	An operator-based expression toolkit for Bacillus subtilis enables fine-tuning of gene expression and biosynthetic pathway regulation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119980119.	7.1	29
3	Assessment of Spoilage Microbiota of Rainbow Trout (Oncorhynchus mykiss) during Storage by 16S rDNA Sequencing. Journal of Food Quality, 2022, 2022, 1-10.	2.6	6
4	Application of Biotechnology in Specific Spoilage Organisms of Aquatic Products. Frontiers in Bioengineering and Biotechnology, 2022, 10, 895283.	4.1	9
5	Identification of a xyloseâ€inducible promoter and its application for improving vitamin B₁₂ production in Sinorhizobium meliloti. Biotechnology and Applied Biochemistry, 2021, 68, 856-864.	3.1	1
6	Genetic Incorporation of Selenotyrosine Significantly Improves Enzymatic Activity of Agrobacterium radiobacter Phosphotriesterase. ChemBioChem, 2021, 22, 2535-2539.	2.6	5
7	Signal Recognition Particle Suppressor Screening Reveals the Regulation of Membrane Protein Targeting by the Translation Rate. MBio, 2021, 12, .	4.1	5
8	Analyzing the genetic characteristics of a tryptophan-overproducing Escherichia coli. Bioprocess and Biosystems Engineering, 2021, 44, 1685-1697.	3.4	6
9	New aspects of microbial vitamin K2 production by expanding the product spectrum. Microbial Cell Factories, 2021, 20, 84.	4.0	21
10	Metabolic profiling analysis of the vitamin B₁₂ producer Propionibacterium freudenreichii. MicrobiologyOpen, 2021, 10, e1199.	3.0	6
11	Microbial Cell Factories for Green Production of Vitamins. Frontiers in Bioengineering and Biotechnology, 2021, 9, 661562.	4.1	24
12	Establishment of a Biosensor-based High-Throughput Screening Platform for Tryptophan Overproduction. ACS Synthetic Biology, 2021, 10, 1373-1383.	3.8	23
13	Compensating Complete Loss of Signal Recognition Particle During Co-translational Protein Targeting by the Translation Speed and Accuracy. Frontiers in Microbiology, 2021, 12, 690286.	3.5	3
14	Improving the Production of Riboflavin by Introducing a Mutant Ribulose 5-Phosphate 3-Epimerase Gene in Bacillus subtilis. Frontiers in Bioengineering and Biotechnology, 2021, 9, 704650.	4.1	7
15	Biosynthesis and applications of curdlan. Carbohydrate Polymers, 2021, 273, 118597.	10.2	22
16	Somatic Embryogenesis and Indirect In Vitro Plant Regeneration in Amorphophallus konjac K. Koch by One-Step Seedling Formation. Horticulturae, 2021, 7, 497.	2.8	1
17	CRISPR/Cas Technologies and Their Applications in Escherichia coli. Frontiers in Bioengineering and Biotechnology, 2021, 9, 762676.	4.1	9
18	Enhanced production of <scp>d</scp>â€psicose 3â€epimerase in Bacillus subtilis by regulation of segmented fermentation. Biotechnology and Applied Biochemistry, 2020, 67, 812-818.	3.1	7

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19	Hyper-secretion mechanism exploration of a heterologous creatinase in Bacillus subtilis. Biochemical Engineering Journal, 2020, 153, 107419.	3.6	4
20	Principle and potential applications of the non-classical protein secretory pathway in bacteria. Applied Microbiology and Biotechnology, 2020, 104, 953-965.	3.6	29
21	Zebrafish hif-3Î± modulates erythropoiesis via regulation of gata-1 to facilitate hypoxia tolerance. Development (Cambridge), 2020, 147, .	2.5	11
22	Zebrafish Nedd8 facilitates ovarian development and the maintenance of female secondary sexual characteristics via suppression of androgen receptor activity. Development (Cambridge), 2020, 147, .	2.5	5
23	Expanding application of CRISPR-Cas9 system in microorganisms. Synthetic and Systems Biotechnology, 2020, 5, 269-276.	3.7	21
24	TET is targeted for proteasomal degradation by the PHD-pVHL pathway to reduce DNA hydroxymethylation. Journal of Biological Chemistry, 2020, 295, 16299-16313.	3.4	11
25	Manipulation of Purine Metabolic Networks for Riboflavin Production in Bacillus subtilis. ACS Omega, 2020, 5, 29140-29146.	3.5	9
26	Advances on systems metabolic engineering of Bacillus subtilis as a chassis cell. Synthetic and Systems Biotechnology, 2020, 5, 245-251.	3.7	29
27	Biosensor-based monitoring of the central metabolic pathway metabolites. Biosensors and Bioelectronics, 2020, 167, 112456.	10.1	9
28	Application of different types of CRISPR/Cas-based systems in bacteria. Microbial Cell Factories, 2020, 19, 172.	4.0	87
29	Bacillus subtilis: a universal cell factory for industry, agriculture, biomaterials and medicine. Microbial Cell Factories, 2020, 19, 173.	4.0	194
30	A multistrategy approach for improving the expression of E. coli phytase in Pichia pastoris. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 1161-1172.	3.0	10
31	Metabolic engineering and optimization of the fermentation medium for vitamin B12 production in Escherichia coli. Bioprocess and Biosystems Engineering, 2020, 43, 1735-1745.	3.4	10
32	Optimization of hydrogenobyrinic acid biosynthesis in Escherichia coli using multi-level metabolic engineering strategies. Microbial Cell Factories, 2020, 19, 118.	4.0	7
33	High-Efficiency Secretion and Directed Evolution of Chitinase BcChiA1 in Bacillus subtilis for the Conversion of Chitinaceous Wastes Into Chitooligosaccharides. Frontiers in Bioengineering and Biotechnology, 2020, 8, 432.	4.1	10
34	Engineering Escherichia coli to improve tryptophan production via genetic manipulation of precursor and cofactor pathways. Synthetic and Systems Biotechnology, 2020, 5, 200-205.	3.7	17
35	Metabolic engineering of Escherichia coli for production of chemicals derived from the shikimate pathway. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 525-535.	3.0	19
36	Zebrafish NF-ÎºB/p65 Is Required for Antiviral Responses. Journal of Immunology, 2020, 204, 3019-3029.	0.8	17

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37	The Versatile Type V CRISPR Effectors and Their Application Prospects. Frontiers in Cell and Developmental Biology, 2020, 8, 622103.	3.7	16
38	Two classes of cytochrome P450 reductase genes and their divergent functions in Camptotheca acuminata Decne. International Journal of Biological Macromolecules, 2019, 138, 1098-1108.	7.5	16
39	Zebrafish prmt5 arginine methyltransferase is essential for germ cell development. Development (Cambridge), 2019, 146, .	2.5	24
40	Strategies for Applying Nonhomologous End Joining-Mediated Genome Editing in Prokaryotes. ACS Synthetic Biology, 2019, 8, 2194-2202.	3.8	8
41	High-efficiency expression and secretion of human FGF21 in Bacillus subtilis by intercalation of a mini-cistron cassette and combinatorial optimization of cell regulatory components. Microbial Cell Factories, 2019, 18, 17.	4.0	17
42	Pinpointing the l-phenylalanine binding sites of TyrR using biosensors and computer-aided simulation. Biotechnology Letters, 2019, 41, 401-408.	2.2	0
43	Evolution of E. coli Phytase for Increased Thermostability Guided by Rational Parameters. Journal of Microbiology and Biotechnology, 2019, 29, 419-428.	2.1	7
44	Application of Dynamic Regulation to Increase L-Phenylalanine Production in Escherichia coli. Journal of Microbiology and Biotechnology, 2019, 29, 923-932.	2.1	14
45	Rational design and analysis of an Escherichia coli strain for high-efficiency tryptophan production. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 357-367.	3.0	30
46	Property Improvement of Î±-Amylase from Bacillus stearothermophilus by Deletion of Amino Acid Residues Arginine 179-Glycine 180. Food Technology and Biotechnology, 2018, 56, 58-64.	2.1	16
47	Zebrafish androgen receptor is required for spermatogenesis and maintenance of ovarian function. Oncotarget, 2018, 9, 24320-24334.	1.8	41
48	Systematic Screening of Optimal Signal Peptides for Secretory Production of Heterologous Proteins in Bacillus subtilis. Journal of Agricultural and Food Chemistry, 2018, 66, 13141-13151.	5.2	54
49	Metabolic engineering of Escherichia coli for de novo biosynthesis of vitamin B12. Nature Communications, 2018, 9, 4917.	12.8	99
50	Engineering a vitamin B12 high-throughput screening system by riboswitch sensor in Sinorhizobium meliloti. BMC Biotechnology, 2018, 18, 27.	3.3	31
51	Genetic engineering of Escherichia coli to improve L-phenylalanine production. BMC Biotechnology, 2018, 18, 5.	3.3	49
52	A pathogen-derived effector modulates host glucose metabolism by arginine GlcNAcylation of HIF-1Î± protein. PLoS Pathogens, 2018, 14, e1007259.	4.7	29
53	Biosensor-Based Evolution and Elucidation of a Biosynthetic Pathway in Escherichia coli. ACS Synthetic Biology, 2017, 6, 837-848.	3.8	64
54	A food-grade expression system for d-psicose 3-epimerase production in Bacillus subtilis using an alanine racemase-encoding selection marker. Bioresources and Bioprocessing, 2017, 4, 9.	4.2	15

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55	High-Efficiency Secretion of Î²-Mannanase in Bacillus subtilis through Protein Synthesis and Secretion Optimization. Journal of Agricultural and Food Chemistry, 2017, 65, 2540-2548.	5.2	53
56	Microbial production of vitamin B12: a review and future perspectives. Microbial Cell Factories, 2017, 16, 15.	4.0	260
57	A new maltose-inducible high-performance heterologous expression system in Bacillus subtilis. Biotechnology Letters, 2017, 39, 1237-1244.	2.2	16
58	Multimer recognition and secretion by the non-classical secretion pathway in Bacillus subtilis. Scientific Reports, 2017, 7, 44023.	3.3	26
59	Tet1 facilitates hypoxia tolerance by stabilizing the HIF-Î± proteins independent of its methylcytosine dioxygenase activity. Nucleic Acids Research, 2017, 45, 12700-12714.	14.5	32
60	Identification of a new gene yecC involved in threonine export in Escherichia coli. FEMS Microbiology Letters, 2017, 364, .	1.8	5
61	In Vitro Optimization of Enzymes Involved in Precorrin-2 Synthesis Using Response Surface Methodology. PLoS ONE, 2016, 11, e0151149.	2.5	12
62	Promoter Screening from Bacillus subtilis in Various Conditions Hunting for Synthetic Biology and Industrial Applications. PLoS ONE, 2016, 11, e0158447.	2.5	62
63	High-level intra- and extra-cellular production of <scp>d</scp>-psicose 3-epimerase via a modified xylose-inducible expression system in Bacillus subtilis. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1577-1591.	3.0	33
64	Improving the Production of L-Phenylalanine by Identifying Key Enzymes Through Multi-Enzyme Reaction System in Vitro. Scientific Reports, 2016, 6, 32208.	3.3	41
65	A novel strategy for protein production using non-classical secretion pathway in Bacillus subtilis. Microbial Cell Factories, 2016, 15, 69.	4.0	57
66	A newly isolated and identified vitamin B12 producing strain: Sinorhizobium meliloti 320. Bioprocess and Biosystems Engineering, 2016, 39, 1527-1537.	3.4	17
67	Determination of key enzymes for threonine synthesis through in vitro metabolic pathway analysis. Microbial Cell Factories, 2015, 14, 86.	4.0	30
68	Combinatorial Sec pathway analysis for improved heterologous protein secretion in Bacillus subtilis: identification of bottlenecks by systematic gene overexpression. Microbial Cell Factories, 2015, 14, 92.	4.0	72
69	Developing a high-throughput screening method for threonine overproduction based on an artificial promoter. Microbial Cell Factories, 2015, 14, 121.	4.0	55
70	An Enzymatic Assay for High-Throughput Screening of Cytidine-Producing Microbial Strains. PLoS ONE, 2015, 10, e0121612.	2.5	9
71	Enhanced extracellular production of Î±-amylase in Bacillus subtilis by optimization of regulatory elements and over-expression of PrsA lipoprotein. Biotechnology Letters, 2015, 37, 899-906.	2.2	68
72	Improving Protein Production on the Level of Regulation of both Expression and Secretion Pathways in Bacillus subtilis. Journal of Microbiology and Biotechnology, 2015, 25, 963-977.	2.1	79

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73	A fast and sensitive coupled enzyme assay for the measurement of l-threonine and application to high-throughput screening of threonine-overproducing strains. Enzyme and Microbial Technology, 2014, 67, 1-7.	3.2	11
74	Current development in genetic engineering strategies of Bacillus species. Microbial Cell Factories, 2014, 13, 63.	4.0	103
75	Cloning, Characterization, and Production of a Novel Lysozyme by Different Expression Hosts. Journal of Microbiology and Biotechnology, 2014, 24, 1405-1412.	2.1	18
76	Translation Elongation Regulates Substrate Selection by the Signal Recognition Particle. Journal of Biological Chemistry, 2012, 287, 7652-7660.	3.4	32
77	Novel Proteomic Tools Reveal Essential Roles of SRP and Importance of Proper Membrane Protein Biogenesis. Molecular and Cellular Proteomics, 2012, 11, M111.011585.	3.8	18