

Yanfeng Liu

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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.

95
papers

1,786
citations

24
h-index

40
g-index

110
ext. papers

2,531
ext. citations

7.1
avg. IF

5.18
L-index

#	Paper	IF	Citations
95	Microbial production of hyaluronic acid: current state, challenges, and perspectives. <i>Microbial Cell Factories</i> , 2011 , 10, 99	6.4	215
94	Modular pathway engineering of <i>Bacillus subtilis</i> for improved N-acetylglucosamine production. <i>Metabolic Engineering</i> , 2014 , 23, 42-52	9.7	113
93	Advances and prospects of <i>Bacillus subtilis</i> cellular factories: From rational design to industrial applications. <i>Metabolic Engineering</i> , 2018 , 50, 109-121	9.7	95
92	Developing <i>Bacillus</i> spp. as a cell factory for production of microbial enzymes and industrially important biochemicals in the context of systems and synthetic biology. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 6113-27	5.7	91
91	Combinatorial pathway enzyme engineering and host engineering overcomes pyruvate overflow and enhances overproduction of N-acetylglucosamine in <i>Bacillus subtilis</i> . <i>Microbial Cell Factories</i> , 2019 , 18, 1	6.4	84
90	Microbial production of glucosamine and N-acetylglucosamine: advances and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 6149-58	5.7	81
89	Spatial modulation of key pathway enzymes by DNA-guided scaffold system and respiration chain engineering for improved N-acetylglucosamine production by <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2014 , 24, 61-9	9.7	65
88	Design of a programmable biosensor-CRISPRi genetic circuits for dynamic and autonomous dual-control of metabolic flux in <i>Bacillus subtilis</i> . <i>Nucleic Acids Research</i> , 2020 , 48, 996-1009	20.1	57
87	Pathway engineering of <i>Bacillus subtilis</i> for microbial production of N-acetylglucosamine. <i>Metabolic Engineering</i> , 2013 , 19, 107-15	9.7	56
86	CRISPRi allows optimal temporal control of N-acetylglucosamine bioproduction by a dynamic coordination of glucose and xylose metabolism in <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2018 , 49, 232-241	9.7	54
85	Metabolic engineering of <i>Bacillus subtilis</i> fueled by systems biology: Recent advances and future directions. <i>Biotechnology Advances</i> , 2017 , 35, 20-30	17.8	53
84	Synthetic Biology Toolbox and Chassis Development in <i>Bacillus subtilis</i> . <i>Trends in Biotechnology</i> , 2019 , 37, 548-562	15.1	45
83	Microbial Chassis Development for Natural Product Biosynthesis. <i>Trends in Biotechnology</i> , 2020 , 38, 779-796	19.6	42
82	A dynamic pathway analysis approach reveals a limiting futile cycle in N-acetylglucosamine overproducing <i>Bacillus subtilis</i> . <i>Nature Communications</i> , 2016 , 7, 11933	17.4	38
81	Engineering a Glucosamine-6-phosphate Responsive glmS Ribozyme Switch Enables Dynamic Control of Metabolic Flux in <i>Bacillus subtilis</i> for Overproduction of N-Acetylglucosamine. <i>ACS Synthetic Biology</i> , 2018 , 7, 2423-2435	5.7	35
80	Pyruvate-responsive genetic circuits for dynamic control of central metabolism. <i>Nature Chemical Biology</i> , 2020 , 16, 1261-1268	11.7	34
79	Synthetic redesign of central carbon and redox metabolism for high yield production of N-acetylglucosamine in <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2019 , 51, 59-69	9.7	34

78	Metabolic engineering of carbon overflow metabolism of <i>Bacillus subtilis</i> for improved N-acetyl-glucosamine production. <i>Bioresource Technology</i> , 2018 , 250, 642-649	11	32
77	Synthetic N-terminal coding sequences for fine-tuning gene expression and metabolic engineering in <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2019 , 55, 131-141	9.7	30
76	Microbial production of sialic acid and sialylated human milk oligosaccharides: Advances and perspectives. <i>Biotechnology Advances</i> , 2019 , 37, 787-800	17.8	27
75	Modular pathway engineering of key carbon-precursor supply-pathways for improved N-acetylneuraminic acid production in <i>Bacillus subtilis</i> . <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2217-2231 ²⁷	4.9	27
74	Combinatorial synthetic pathway fine-tuning and comparative transcriptomics for metabolic engineering of <i>Raoultella ornithinolytica</i> BF60 to efficiently synthesize 2,5-furandicarboxylic acid. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2148-2155	4.9	26
73	Engineering the Substrate Transport and Cofactor Regeneration Systems for Enhancing 2-Fucosyllactose Synthesis in. <i>ACS Synthetic Biology</i> , 2019 , 8, 2418-2427	5.7	25
72	Combinatorial promoter engineering of glucokinase and phosphoglucosomerase for improved N-acetylglucosamine production in <i>Bacillus subtilis</i> . <i>Bioresource Technology</i> , 2017 , 245, 1093-1102	11	25
71	Rewiring the Glucose Transportation and Central Metabolic Pathways for Overproduction of N-Acetylglucosamine in <i>Bacillus subtilis</i> . <i>Biotechnology Journal</i> , 2017 , 12, 1700020	5.6	24
70	An optimal glucose feeding strategy integrated with step-wise regulation of the dissolved oxygen level improves N-acetylglucosamine production in recombinant <i>Bacillus subtilis</i> . <i>Bioresource Technology</i> , 2015 , 177, 387-92	11	23
69	Toward metabolic engineering in the context of system biology and synthetic biology: advances and prospects. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 1109-18	5.7	22
68	CAMERS-B: CRISPR/Cpf1 assisted multiple-genes editing and regulation system for <i>Bacillus subtilis</i> . <i>Biotechnology and Bioengineering</i> , 2020 , 117, 1817-1825	4.9	21
67	Creating an in vivo bifunctional gene expression circuit through an aptamer-based regulatory mechanism for dynamic metabolic engineering in <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2019 , 55, 179-190	9.7	19
66	Cell Membrane and Electron Transfer Engineering for Improved Synthesis of Menaquinone-7 in <i>Bacillus subtilis</i> . <i>IScience</i> , 2020 , 23, 100918	6.1	17
65	Synergistic Rewiring of Carbon Metabolism and Redox Metabolism in Cytoplasm and Mitochondria of <i>Aspergillus oryzae</i> for Increased L-Malate Production. <i>ACS Synthetic Biology</i> , 2018 , 7, 2139-2147	5.7	17
64	Identification of microorganisms producing lactic acid during solid-state fermentation of Maotai flavour liquor. <i>Journal of the Institute of Brewing</i> , 2019 , 125, 171-177	2	15
63	Metabolic engineering of S9114 based on whole-genome sequencing for efficient -acetylglucosamine synthesis. <i>Synthetic and Systems Biotechnology</i> , 2019 , 4, 120-129	4.2	12
62	Facile controlled synthesis of core-shell/yolk-shell/hollow ZIF-67@Co-LDH/SiO ₂ via a self-template method. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 1643-1650	6.8	12
61	Synthetic repetitive extragenic palindromic (REP) sequence as an efficient mRNA stabilizer for protein production and metabolic engineering in prokaryotic cells. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 5-18	4.9	11

60	Current advances in design and engineering strategies of industrial enzymes. <i>Systems Microbiology and Biomanufacturing</i> , 2021 , 1, 15-23		11
59	Secretory Expression Fine-Tuning and Directed Evolution of Diacetylchitobiose Deacetylase by <i>Bacillus subtilis</i> . <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	10
58	Metabolic engineering for the production of fat-soluble vitamins: advances and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 935-951	5.7	10
57	A Zinc Coordination Polymer Sensor for Selective and Sensitive Detection of Doxycycline Based on Fluorescence Enhancement. <i>Crystal Growth and Design</i> , 2021 , 21, 4971-4978	3.5	10
56	Synthetic metabolic channel by functional membrane microdomains for compartmentalized flux control. <i>Metabolic Engineering</i> , 2020 , 59, 106-118	9.7	9
55	Titration bacterial growth and chemical biosynthesis for efficient N-acetylglucosamine and N-acetylneuraminic acid bioproduction. <i>Nature Communications</i> , 2020 , 11, 5078	17.4	9
54	Genome sequencing and flavor compound biosynthesis pathway analyses of <i>Bacillus licheniformis</i> isolated from Chinese Maotai-flavor liquor-brewing microbiome. <i>Food Biotechnology</i> , 2020 , 34, 193-211	2.2	8
53	Lactic acid biosynthesis pathways and important genes of <i>Lactobacillus panis</i> L7 isolated from the Chinese liquor brewing microbiome. <i>Food Bioscience</i> , 2020 , 36, 100627	4.9	7
52	Combinatorial Fine-Tuning of GNA1 and GlmS Expression by 5' Terminus Fusion Engineering Leads to Overproduction of N-Acetylglucosamine in <i>Bacillus subtilis</i> . <i>Biotechnology Journal</i> , 2019 , 14, e1800264	5.6	7
51	Biocatalytic Production of Glucosamine from N-Acetylglucosamine by Diacetylchitobiose Deacetylase. <i>Journal of Microbiology and Biotechnology</i> , 2018 , 28, 1850-1858	3.3	7
50	Applications of CRISPR in a Microbial Cell Factory: From Genome Reconstruction to Metabolic Network Reprogramming. <i>ACS Synthetic Biology</i> , 2020 , 9, 2228-2238	5.7	7
49	Combinatorial engineering for improved menaquinone-4 biosynthesis in <i>Bacillus subtilis</i> . <i>Enzyme and Microbial Technology</i> , 2020 , 141, 109652	3.8	7
48	Synthetic biology for future food: Research progress and future directions. <i>Future Foods</i> , 2021 , 3, 1000253	5.3	7
47	Engineering diacetylchitobiose deacetylase from <i>Pyrococcus horikoshii</i> towards an efficient glucosamine production. <i>Bioresource Technology</i> , 2021 , 334, 125241	11	7
46	Systems metabolic engineering of <i>Bacillus subtilis</i> for efficient biosynthesis of 5-methyltetrahydrofolate. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 2116-2130	4.9	6
45	Effects of carbon sources and feeding strategies on heparosan production by <i>Escherichia coli</i> K5. <i>Bioprocess and Biosystems Engineering</i> , 2012 , 35, 1209-18	3.7	5
44	Combinatorial Methylerythritol Phosphate Pathway Engineering and Process Optimization for Increased Menaquinone-7 Synthesis in. <i>Journal of Microbiology and Biotechnology</i> , 2020 , 30, 762-769	3.3	5
43	Metabolic engineering of <i>Escherichia coli</i> for the production of Lacto-N-neotetraose (LNnT). <i>Systems Microbiology and Biomanufacturing</i> , 2021 , 1, 291		5

42	Synergistic improvement of N-acetylglucosamine production by engineering transcription factors and balancing redox cofactors. <i>Metabolic Engineering</i> , 2021 , 67, 330-346	9.7	5
41	Efficient Removal of U(VI) Using Functionalized Hollow Mesoporous Silica Nanospheres. <i>ChemistrySelect</i> , 2019 , 4, 7396-7402	1.8	4
40	Development and optimization of N-acetylneuraminic acid biosensors in <i>Bacillus subtilis</i> . <i>Biotechnology and Applied Biochemistry</i> , 2020 , 67, 693-705	2.8	4
39	Developing rapid growing for improved biochemical and recombinant protein production. <i>Metabolic Engineering Communications</i> , 2020 , 11, e00141	6.5	4
38	Pathway Engineering of <i>Bacillus subtilis</i> for Enhanced N-Acetylneuraminic Acid Production via Whole-Cell Biocatalysis. <i>Biotechnology Journal</i> , 2019 , 14, e1800682	5.6	3
37	Overexpression of HMGA1 confers radioresistance by transactivating RAD51 in cholangiocarcinoma. <i>Cell Death Discovery</i> , 2021 , 7, 322	6.9	3
36	Food synthetic biology-driven protein supply transition: From animal-derived production to microbial fermentation. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 30, 29-36	3.2	3
35	The elucidation of phosphosugar stress response in <i>Bacillus subtilis</i> guides strain engineering for high N-acetylglucosamine production. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 383-396	4.9	3
34	Synthetic biology-driven microbial production of folates: Advances and perspectives. <i>Bioresource Technology</i> , 2021 , 324, 124624	11	3
33	Development of a DNA double-strand break-free base editing tool in for genome editing and metabolic engineering. <i>Metabolic Engineering Communications</i> , 2020 , 11, e00135	6.5	2
32	Enhanced 2,5-Furandicarboxylic Acid (FDCA) Production in BF60 by Manipulation of the Key Genes in FDCA Biosynthesis Pathway. <i>Journal of Microbiology and Biotechnology</i> , 2018 , 28, 1999-2008	3.3	2
31	Systems biology, synthetic biology, and metabolic engineering 2020 , 1-31		2
30	Quantitation of RNA by a fluorometric method using the SYTO RNASelect stain. <i>Analytical Biochemistry</i> , 2020 , 606, 113857	3.1	2
29	Towards next-generation model microorganism chassis for biomanufacturing. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 9095-9108	5.7	2
28	Engineering a ComA Quorum-Sensing circuit to dynamically control the production of Menaquinone-4 in <i>Bacillus subtilis</i> . <i>Enzyme and Microbial Technology</i> , 2021 , 147, 109782	3.8	2
27	Recent advances and prospects in purification and heterologous expression of lactoferrin		2
26	Combinatorial metabolic engineering of <i>Escherichia coli</i> for de novo production of 2Tfucosyllactose.. <i>Bioresource Technology</i> , 2022 , 126949	11	2
25	Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019 , 35, 929-993	5	1

24	Cell-free synthesis system-assisted pathway bottleneck diagnosis and engineering in. <i>Synthetic and Systems Biotechnology</i> , 2020 , 5, 131-136	4.2	1
23	Microbiome analysis and random forest algorithm-aided identification of the diacetyl-producing microorganisms in the stacking fermentation stage of Maotai-flavor liquor production. <i>Food Biotechnology</i> , 2019 , 33, 338-352	2.2	1
22	Model-driven design of synthetic N-terminal coding sequences for regulating gene expression in yeast and bacteria.. <i>Biotechnology Journal</i> , 2022 , e2100655	5.6	1
21	Combinatorial pathway engineering of <i>Bacillus subtilis</i> for production of structurally defined and homogeneous chitooligosaccharides.. <i>Metabolic Engineering</i> , 2022 ,	9.7	1
20	Screening, Optimization and Assembly of Key Pathway Enzymes in Metabolic Engineering 2019 , 167-176		1
19	Multilayer Genetic Circuits for Dynamic Regulation of Metabolic Pathways. <i>ACS Synthetic Biology</i> , 2021 , 10, 1587-1597	5.7	1
18	Production of proteins and commodity chemicals using engineered <i>Bacillus subtilis</i> platform strain. <i>Essays in Biochemistry</i> , 2021 , 65, 173-185	7.6	1
17	Enzymatic production of N-acetylneuraminic acid: advances and perspectives. <i>Systems Microbiology and Biomanufacturing</i> ,1		1
16	Semi-rational design of L-amino acid deaminase for production of pyruvate and D-alanine by <i>Escherichia coli</i> whole-cell biocatalyst. <i>Amino Acids</i> , 2021 , 53, 1361-1371	3.5	1
15	High level production of diacetylchitobiose deacetylase by refactoring genetic elements and cellular metabolism. <i>Bioresource Technology</i> , 2021 , 341, 125836	11	1
14	Engineering of Biosynthesis Pathway and NADPH Supply for Improved L-5-Methyltetrahydrofolate Production by. <i>Journal of Microbiology and Biotechnology</i> , 2019 , 31, 154-162	3.3	1
13	Combinatorial Metabolic Engineering and Enzymatic Catalysis Enable Efficient Production of Colanic Acid. <i>Microorganisms</i> , 2022 , 10, 877	4.9	1
12	New synthetic biology tools for metabolic control.. <i>Current Opinion in Biotechnology</i> , 2022 , 76, 102724	11.4	1
11	Construction of Multiscale Genome-Scale Metabolic Models: Frameworks and Challenges. <i>Biomolecules</i> , 2022 , 12, 721	5.9	1
10	Metabolomics-Driven Elucidation of Interactions between <i>Saccharomyces cerevisiae</i> and <i>Lactobacillus panis</i> from Chinese Baijiu Fermentation Microbiome. <i>Fermentation</i> , 2022 , 8, 33	4.7	0
9	Chitin deacetylase: from molecular structure to practical applications. <i>Systems Microbiology and Biomanufacturing</i> ,1		0
8	Refactoring and optimization of metabolic network 2020 , 77-105		0
7	Systems and synthetic metabolic engineering for production of biochemicals 2020 , 207-235		0

- 6 Inducible Population Quality Control of Engineered for Improved -Acetylneuraminic Acid Biosynthesis. *ACS Synthetic Biology*, **2021**, 10, 2197-2209 5.7 ○
- 5 Biosynthesis of Guanidinoacetate by *Bacillus subtilis* Whole-Cell Catalysis. *Fermentation*, **2022**, 8, 116 4.7 ○
- 4 Refactoring transcription factors for metabolic engineering.. *Biotechnology Advances*, **2022**, 107935 17.8 ○
- 3 Nutraceuticals Definition, Kinds and Applications **2019**, 1-7
- 2 Microbial Production of Oligosaccharides and Polysaccharides **2019**, 75-91
- 1 A CRISPR-Cas12a-Based Assay for Efficient Quantification of *Lactobacillus panis* in Chinese Baijiu Brewing Microbiome. *Fermentation*, **2022**, 8, 88 4.7