Tiangang Liu

List of Publications by Year in descending order

74 papers	3,401 citations	136950 32 h-index	149698 56 g-index
79 all docs	79 docs citations	79 times ranked	3494 citing authors

#	Article	IF	Citations
1	Systematic identification of Ocimum sanctum sesquiterpenoid synthases and (â˜)-eremophilene overproduction in engineered yeast. Metabolic Engineering, 2022, 69, 122-133.	7.0	24
2	3Î²-Hydroxysteroid dehydrogenase expressed by gut microbes degrades testosterone and is linked to depression in males. Cell Host and Microbe, 2022, 30, 329-339.e5.	11.0	45
3	Revolution of vitamin E production by starting from microbial fermented farnesene to isophytol. Innovation(China), 2022, 3, 100228.	9.1	13
4	Coupling cell growth and biochemical pathway induction in Saccharomyces cerevisiae for production of (+)-valencene and its chemical conversion to (+)-nootkatone. Metabolic Engineering, 2022, 72, 107-115.	7.0	22
5	Self-Assembled Enzymatic Nanowires with a â€œDry and Wetâ€•Interface Improve the Catalytic Performance of Januvia Transaminase in Organic Solvents. ACS Catalysis, 2022, 12, 372-382.	11.2	3
6	Efficient exploration of terpenoid biosynthetic gene clusters in filamentous fungi. Nature Catalysis, 2022, 5, 277-287.	34.4	33
7	Evaluation and optimization of analytical procedure and sample preparation for polar Streptomyces albus J1074 metabolome profiling. Synthetic and Systems Biotechnology, 2022, 7, 949-957.	3.7	2
8	Solarâ€Driven Overproduction of Biofuels in Microorganisms. Angewandte Chemie - International Edition, 2022, 61, .	13.8	5
9	Discovery of non-squalene triterpenes. Nature, 2022, 606, 414-419.	27.8	71
10	Harnessing in vitro platforms for natural product research: in vitro driven rational engineering and mining (iDREAM). Current Opinion in Biotechnology, 2021, 69, 1-9.	6.6	15
11	Changes in phospholipid metabolism in exosomes of hormone-sensitive and hormone-resistant prostate cancer cells. Journal of Cancer, 2021, 12, 2893-2902.	2.5	13
12	Auxiliary Module Promotes the Synthesis of Carboxysomes in E. coli to Achieve High-Efficiency CO₂ Assimilation. ACS Synthetic Biology, 2021, 10, 707-715.	3.8	12
13	The concordance between the evolutionary trend and the clinical manifestation of the two SARS-CoV-2 variants. National Science Review, 2021, 8, nwab073.	9.5	2
14	Systematic mining of fungal chimeric terpene synthases using an efficient precursor-providing yeast chassis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	23
15	Rapid Profiling of Chemical Constituents in Qingfei Paidu Granules Using High Performance Liquid Chromatography Coupled with Q Exactive Mass Spectrometry. Chromatographia, 2021, 84, 1035-1048.	1.3	6
16	Increasing the heterologous production of spinosad in Streptomyces albus J1074 by regulating biosynthesis of its polyketide skeleton. Synthetic and Systems Biotechnology, 2021, 6, 292-301.	3.7	8
17	Qualitative analysis of chemical components in Lianhua Qingwen capsule by HPLC-Q Exactive-Orbitrap-MS coupled with GC-MS. Journal of Pharmaceutical Analysis, 2021, 11, 709-716.	5.3	24
18	A Family of Related Fungal and Bacterial Diâ€•and Sesterterpenes: Studies on Fusaterpenol and Variediene. ChemBioChem, 2020, 21, 486-491.	2.6	13

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19	Genomics-driven discovery of the biosynthetic gene cluster of maduramicin and its overproduction in Actinomadura sp. J1-007. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 275-285.	3.0	9
20	A Cellâ€Free Platform Based on Nisin Biosynthesis for Discovering Novel Lanthipeptides and Guiding their Overproduction In Vivo. Advanced Science, 2020, 7, 2001616.	11.2	33
21	Discovery of the cryptic function of terpene cyclases as aromatic prenyltransferases. Nature Communications, 2020, 11, 3958.	12.8	22
22	Nanopore Targeted Sequencing for the Accurate and Comprehensive Detection of SARSâ€CoVâ€2 and Other Respiratory Viruses. Small, 2020, 16, e2002169.	10.0	169
23	Promising methods for detection of novel coronavirus SARSâ€CoVâ€2. View, 2020, 1, e4.	5.3	47
24	Semisynthesis of Plant-Derived Englerin A Enabled by Microbe Engineering of Guaia-6,10(14)-diene as Building Block. Journal of the American Chemical Society, 2020, 142, 2760-2765.	13.7	36
25	Structure-guided reshaping of the acyl binding pocket of â€˜TesA thioesterase enhances octanoic acid production in E. coli. Metabolic Engineering, 2020, 61, 24-32.	7.0	31
26	Strategies for Enhancing the Yield of the Potent Insecticide Spinosad in Actinomycetes. Biotechnology Journal, 2019, 14, e1700769.	3.5	30
27	Comparative studies of glycolytic pathways and channeling under in vitro and in vivo modes. AICHE Journal, 2019, 65, 483-490.	3.6	14
28	Markerâ€Free System Using Ribosomal Promoters Enhanced Xylose/Glucose Isomerase Production in Streptomyces rubiginosus. Biotechnology Journal, 2019, 14, e1900114.	3.5	5
29	Overproduction of gentamicin B in industrial strain Micromonospora echinospora CCTCC M 2018898 by cloning of the missing genes genR and genS. Metabolic Engineering Communications, 2019, 9, e00096.	3.6	5
30	Synthetic Multienzyme Complexes, Catalytic Nanomachineries for Cascade Biosynthesis In Vivo. ACS Nano, 2019, 13, 9895-9906.	14.6	65
31	Genome mining in Trichoderma viride J1-030: discovery and identification of novel sesquiterpene synthase and its products. Beilstein Journal of Organic Chemistry, 2019, 15, 2052-2058.	2.2	13
32	Systematic Metabolic Engineering of Saccharomyces cerevisiae for Lycopene Overproduction. Journal of Agricultural and Food Chemistry, 2019, 67, 11148-11157.	5.2	79
33	Modular enzyme assembly for enhanced cascade biocatalysis and metabolic flux. Nature Communications, 2019, 10, 4248.	12.8	158
34	Lipid engineering combined with systematic metabolic engineering of Saccharomyces cerevisiae for high-yield production of lycopene. Metabolic Engineering, 2019, 52, 134-142.	7.0	251
35	Sesquiterpenoids Produced by Combining Two Sesquiterpene Cyclases with Promiscuous Myxobacterial CYP260B1. ChemBioChem, 2019, 20, 677-682.	2.6	9
36	Metabolic Engineering-Based Rapid Characterization of a Sesquiterpene Cyclase and the Skeletons of Fusariumdiene and Fusagramineol from Fusarium graminearum. Organic Letters, 2018, 20, 1626-1629.	4.6	27

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37	Modification of É›â€polyâ€Lâ€lysine in vivo to reduce selfâ€toxicity and enhance antibiotic overproduction. AICHE Journal, 2018, 64, 4187-4192.	3.6	1
38	Eine chimÃre pilzliche Diterpensynthase der Klade IIâ€Ð aus Colletotrichum gloeosporioides produziert Dolastaâ€1(15),8â€dien. Angewandte Chemie, 2018, 130, 16113-16117.	2.0	15
39	A Clade IIâ€Ð Fungal Chimeric Diterpene Synthase from Colletotrichum gloeosporioides Produces Dolastaâ€1(15),8â€diene. Angewandte Chemie - International Edition, 2018, 57, 15887-15890.	13.8	57
40	Aglycone Polyether Nanchangmycin and Its Homologues Exhibit Apoptotic and Antiproliferative Activities against Cancer Stem Cells. ACS Pharmacology and Translational Science, 2018, 1, 84-95.	4.9	10
41	Streptomyces species: Ideal chassis for natural product discovery and overproduction. Metabolic Engineering, 2018, 50, 74-84.	7.0	102
42	Enhancing the efficiency of cell-free protein synthesis system by systematic titration of transcription and translation components. Biochemical Engineering Journal, 2018, 138, 47-53.	3.6	22
43	In Vivo Platforms for Terpenoid Overproduction and the Generation of Chemical Diversity. Methods in Enzymology, 2018, 608, 97-129.	1.0	7
44	In Vitro Reconstitution and Optimization of the Entire Pathway to Convert Glucose into Fatty Acid. ACS Synthetic Biology, 2017, 6, 701-709.	3.8	37
45	Production of taxadiene by engineering of mevalonate pathway in Escherichia coli and endophytic fungus Alternaria alternata TPF6. Biotechnology Journal, 2017, 12, 1600697.	3.5	39
46	Heterologous Biosynthesis of Spinosad: An Omics-Guided Large Polyketide Synthase Gene Cluster Reconstitution in Streptomyces. ACS Synthetic Biology, 2017, 6, 995-1005.	3.8	70
47	Releasing the potential power of terpene synthases by a robust precursor supply platform. Metabolic Engineering, 2017, 42, 1-8.	7.0	93
48	Rational synthetic pathway refactoring of natural products biosynthesis in actinobacteria. Metabolic Engineering, 2017, 39, 228-236.	7.0	56
49	Strategies for terpenoid overproduction and new terpenoid discovery. Current Opinion in Biotechnology, 2017, 48, 234-241.	6.6	99
50	Editorial overview: Pharmaceutical biotechnology. Current Opinion in Biotechnology, 2017, 48, 258-259.	6.6	1
51	Synthesis and biological evaluation of salinomycin triazole analogues as anticancer agents. European Journal of Medicinal Chemistry, 2017, 127, 900-908.	5.5	51
52	Development of Streptomyces sp. FR-008 as an emerging chassis. Synthetic and Systems Biotechnology, 2016, 1, 207-214.	3.7	36
53	Absolute quantification of proteins in the fatty acid biosynthetic pathway using protein standard absolute quantification. Synthetic and Systems Biotechnology, 2016, 1, 150-157.	3.7	9
54	In vitro reconstitution guide for targeted synthetic metabolism of chemicals, nutraceuticals and drug precursors. Synthetic and Systems Biotechnology, 2016, 1, 25-33.	3.7	15

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55	Production of acrylic acid and propionic acid by constructing a portion of the 3-hydroxypropionate/4-hydroxybutyrate cycle from Metallosphaera sedula in Escherichia coli. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1659-1670.	3.0	23
56	Evaluation of 3-hydroxypropionate biosynthesis in vitro by partial introduction of the 3-hydroxypropionate/4-hydroxybutyrate cycle from Metallosphaera sedula. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 1313-1321.	3.0	7
57	Genome mining of astaxanthin biosynthetic genes from Sphingomonas sp. ATCC 55669 for heterologous overproduction in Escherichia coli. Biotechnology Journal, 2016, 11, 228-237.	3.5	56
58	Microbial production strategies and applications of lycopene and other terpenoids. World Journal of Microbiology and Biotechnology, 2016, 32, 15.	3.6	37
59	Metabolic engineering of microbes for branched-chain biodiesel production with low-temperature property. Biotechnology for Biofuels, 2015, 8, 92.	6.2	45
60	Targeted engineering and scale up of lycopene overproduction in Escherichia coli. Process Biochemistry, 2015, 50, 341-346.	3.7	67
61	Engineering an iterative polyketide pathway in Escherichia coli results in single-form alkene and alkane overproduction. Metabolic Engineering, 2015, 28, 82-90.	7.0	68
62	Recent advances in the elucidation of enzymatic function in natural product biosynthesis. F1000Research, 2015, 4, 1399.	1.6	3
63	Overproduction of fatty acids in engineered Saccharomyces cerevisiae. Biotechnology and Bioengineering, 2014, 111, 1841-1852.	3.3	82
64	Metabolic engineering of Escherichia coli for production of fatty acid short-chain esters through combination of the fatty acid and 2-keto acid pathways. Metabolic Engineering, 2014, 22, 69-75.	7.0	55
65	In vitro reconstitution of mevalonate pathway and targeted engineering of farnesene overproduction in Escherichia coli. Biotechnology and Bioengineering, 2014, 111, 1396-1405.	3.3	182
66	Metabolic engineering of fatty acyl-ACP reductase-dependent pathway to improve fatty alcohol production in Escherichia coli. Metabolic Engineering, 2014, 22, 10-21.	7.0	95
67	In vitro reconstitution and steady-state analysis of the fatty acid synthase from Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18643-18648.	7.1	152
68	Quantitative analysis and engineering of fatty acid biosynthesis in E. coli. Metabolic Engineering, 2010, 12, 378-386.	7.0	198
69	Genetic Engineering of Escherichia coli for Biofuel Production. Annual Review of Genetics, 2010, 44, 53-69.	7.6	119
70	A Balancing Act for Taxol Precursor Pathways in E. coli. Science, 2010, 330, 44-45.	12.6	17
71	Chapter 9 The Enzymology of Polyether Biosynthesis. Methods in Enzymology, 2009, 459, 187-214.	1.0	33
72	Mechanism of Thioesterase-Catalyzed Chain Release in the Biosynthesis of the Polyether Antibiotic Nanchangmycin. Chemistry and Biology, 2008, 15, 449-458.	6.0	44

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73	Identification of NanE as the Thioesterase for Polyether Chain Release in Nanchangmycin Biosynthesis. Chemistry and Biology, 2006, 13, 945-955.	6.0	58
74	Solarâ€driven Overproduction of Biofuels inÂMicroorganisms. Angewandte Chemie, 0, , .	2.0	0