Zaigao Tan

List of Publications by Year
in descending order

16	805	623188 14	940134 16
papers	citations	h-index	g-index

16	16	16	985
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Membrane engineering via trans unsaturated fatty acids production improves Escherichia coli robustness and production of biorenewables. Metabolic Engineering, 2016, 35, 105-113.	3.6	112
2	The isoprenoid alcohol pathway, a synthetic route for isoprenoid biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12810-12815.	3.3	108
3	Metabolic evolution of two reducing equivalent-conserving pathways for high-yield succinate production in Escherichia coli. Metabolic Engineering, 2014, 24, 87-96.	3.6	97
4	Engineering Escherichia coli membrane phospholipid head distribution improves tolerance and production of biorenewables. Metabolic Engineering, 2017, 44, 1-12.	3.6	83
5	Activating Phosphoenolpyruvate Carboxylase and Phosphoenolpyruvate Carboxykinase in Combination for Improvement of Succinate Production. Applied and Environmental Microbiology, 2013, 79, 4838-4844.	1.4	72
6	Activating C4-dicarboxylate transporters DcuB and DcuC for improving succinate production. Applied Microbiology and Biotechnology, 2014, 98, 2197-2205.	1.7	48
7	Synthetic Pathway for the Production of Olivetolic Acid in Escherichia coli. ACS Synthetic Biology, 2018, 7, 1886-1896.	1.9	47
8	Improving Escherichia coli membrane integrity and fatty acid production by expression tuning of FadL and OmpF. Microbial Cell Factories, 2017, 16, 38.	1.9	46
9	Recruiting alternative glucose utilization pathways for improving succinate production. Applied Microbiology and Biotechnology, 2013, 97, 2513-2520.	1.7	40
10	Systematic engineering of pentose phosphate pathway improves Escherichia coli succinate production. Biotechnology for Biofuels, 2016, 9, 262.	6.2	35
11	A polyketoacyl-CoA thiolase-dependent pathway for the synthesis of polyketide backbones. Nature Catalysis, 2020, 3, 593-603.	16.1	29
12	Mechanisms Involved in the Functional Divergence of Duplicated GroEL Chaperonins in Myxococcus xanthus DK1622. PLoS Genetics, 2013, 9, e1003306.	1.5	27
13	Engineering of E. coli inherent fatty acid biosynthesis capacity to increase octanoic acid production. Biotechnology for Biofuels, 2018, 11, 87.	6.2	24
14	Hdsp, a horizontally transferred gene required for social behavior and halotolerance in salt-tolerant Myxococcus fulvus HW-1. ISME Journal, 2010, 4, 1282-1289.	4.4	22
15	Construction of Escherichia Coli Cell Factories for Production of Organic Acids and Alcohols. Advances in Biochemical Engineering/Biotechnology, 2015, 155, 107-140.	0.6	11
16	Characterization of Four Type IV Pilin Homologues in Stigmatella aurantiaca DSM17044 by Heterologous Expression in Myxococcus xanthus. PLoS ONE, 2013, 8, e75105.	1.1	4