Chao Wu

List of Publications by Year
in descending order

15	543	1040056 9	1058476 14
papers	citations	h-index	g-index

19	19	19	803
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Double CO2 fixation in photosynthesisâ€“fermentation model enhances algal lipid synthesis for biodiesel production. Bioresource Technology, 2010, 101, 2287-2293.	9.6	158
2	13C-Tracer and Gas Chromatography-Mass Spectrometry Analyses Reveal Metabolic Flux Distribution in the Oleaginous MicroalgaChlorella protothecoidesÂ Â Â Â. Plant Physiology, 2010, 154, 1001-1011.	4.8	108
3	Genome-Based Metabolic Mapping and 13C Flux Analysis Reveal Systematic Properties of an Oleaginous Microalga Chlorella protothecoides Â Â. Plant Physiology, 2015, 167, 586-599.	4.8	82
4	Metabolic Flux Analysis of Lipid Biosynthesis in the Yeast Yarrowia lipolytica Using 13C-Labled Glucose and Gas Chromatography-Mass Spectrometry. PLoS ONE, 2016, 11, e0159187.	2.5	36
5	A generalized computational framework to streamline thermodynamics and kinetics analysis of metabolic pathways. Metabolic Engineering, 2020, 57, 140-150.	7.0	27
6	Kinetic flux profiling dissects nitrogen utilization pathways in the oleaginous green alga Chlorella protothecoides. Journal of Phycology, 2016, 52, 116-124.	2.3	23
7	Biotechnology for secure biocontainment designs in an emerging bioeconomy. Current Opinion in Biotechnology, 2021, 71, 25-31.	6.6	23
8	Isotope-Assisted Metabolite Analysis Sheds Light on Central Carbon Metabolism of a Model Cellulolytic Bacterium Clostridium thermocellum. Frontiers in Microbiology, 2018, 9, 1947.	3.5	20
9	Exogenous electricity flowing through cyanobacterial photosystem I drives CO₂ valorization with high energy efficiency. Energy and Environmental Science, 2021, 14, 5480-5490.	30.8	19
10	Acetyl-CoA synthesis through a bicyclic carbon-fixing pathway in gas-fermenting bacteria. , 2022, 1, 615-625.		16
11	ATP Drives Efficient Terpene Biosynthesis in Marine Thraustochytrids. MBio, 2021, 12, e0088121.	4.1	11
12	Computational Framework for Machine-Learning-Enabled ¹³C Fluxomics. ACS Synthetic Biology, 2022, 11, 103-115.	3.8	6
13	A quantitative lens on anaerobic life: leveraging the state-of-the-art fluxomics approach to explore clostridial metabolism. Current Opinion in Biotechnology, 2020, 64, 47-54.	6.6	5
14	EMUlator: An Elementary Metabolite Unit (EMU) Based Isotope Simulator Enabled by Adjacency Matrix. Frontiers in Microbiology, 2019, 10, 922.	3.5	4
15	Thermodynamic and Kinetic Modeling of Co-utilization of Glucose and Xylose for 2,3-BDO Production by Zymomonas mobilis. Frontiers in Bioengineering and Biotechnology, 2021, 9, 707749.	4.1	3