

Ethan I Lan

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

2,534
citations

430442

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676716

22
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all docs

24
docs citations

24
times ranked

2420
citing authors

#	ARTICLE	IF	CITATIONS
1	Driving Forces Enable High-Titer Anaerobic 1-Butanol Synthesis in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2011, 77, 2905-2915.	1.4	572
2	Metabolic engineering of cyanobacteria for 1-butanol production from carbon dioxide. <i>Metabolic Engineering</i> , 2011, 13, 353-363.	3.6	352
3	ATP drives direct photosynthetic production of 1-butanol in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6018-6023.	3.3	327
4	<i>Escherichia coli</i> as a host for metabolic engineering. <i>Metabolic Engineering</i> , 2018, 50, 16-46.	3.6	250
5	Microbial synthesis of n-butanol, isobutanol, and other higher alcohols from diverse resources. <i>Bioresource Technology</i> , 2013, 135, 339-349.	4.8	171
6	Oxygen-tolerant coenzyme A-acylating aldehyde dehydrogenase facilitates efficient photosynthetic n-butanol biosynthesis in cyanobacteria. <i>Energy and Environmental Science</i> , 2013, 6, 2672.	15.6	143
7	Extending Carbon Chain Length of 1-Butanol Pathway for 1-Hexanol Synthesis from Glucose by Engineered <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2011, 133, 11399-11401.	6.6	131
8	A selection platform for carbon chain elongation using the CoA-dependent pathway to produce linear higher alcohols. <i>Metabolic Engineering</i> , 2012, 14, 504-511.	3.6	126
9	Metabolic engineering of cyanobacteria for photosynthetic 3-hydroxypropionic acid production from CO ₂ using <i>Synechococcus elongatus</i> PCC 7942. <i>Metabolic Engineering</i> , 2015, 31, 163-170.	3.6	90
10	Metabolic engineering of cyanobacteria for the photosynthetic production of succinate. <i>Metabolic Engineering</i> , 2016, 38, 483-493.	3.6	72
11	Advances in Metabolic Engineering of Cyanobacteria for Photosynthetic Biochemical Production. <i>Metabolites</i> , 2015, 5, 636-658.	1.3	71
12	A balanced ATP driving force module for enhancing photosynthetic biosynthesis of 3-hydroxybutyrate from CO ₂ . <i>Metabolic Engineering</i> , 2018, 46, 35-42.	3.6	36
13	Renewable synthesis of n-butyraldehyde from glucose by engineered <i>Escherichia coli</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 291.	6.2	30
14	Metabolic Engineering Design Strategies for Increasing Acetyl-CoA Flux. <i>Metabolites</i> , 2020, 10, 166.	1.3	30
15	Quantitative target analysis and kinetic profiling of acyl-CoAs reveal the rate-limiting step in cyanobacterial 1-butanol production. <i>Metabolomics</i> , 2016, 12, 26.	1.4	28
16	Metabolic engineering of 2-pentanone synthesis in <i>Escherichia coli</i> . <i>AIChE Journal</i> , 2013, 59, 3167-3175.	1.8	25
17	Chemical Production from Methanol Using Natural and Synthetic Methyloprophs. <i>Biotechnology Journal</i> , 2020, 15, 1900356.	1.8	22
18	Photoautotrophic synthesis of butyrate by metabolically engineered cyanobacteria. <i>Biotechnology and Bioengineering</i> , 2019, 116, 893-903.	1.7	21

#	ARTICLE	IF	CITATIONS
19	Cometabolic degradation of toluene and TCE contaminated wastewater in a bench-scale sequencing batch reactor inoculated with immobilized <i>Pseudomonas putida</i> F1. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 104, 168-176.	2.7	16
20	Rapid Quantification of Gut Microbial Short-Chain Fatty Acids by pDART-MS. <i>Analytical Chemistry</i> , 2020, 92, 14892-14897.	3.2	12
21	Metabolic engineering of <i>Escherichia coli</i> for efficient biosynthesis of butyl acetate. <i>Microbial Cell Factories</i> , 2022, 21, 28.	1.9	6
22	Photosynthesis and Its Metabolic Engineering Applications. , 2018, , 121-165.		0