Claire R Shen

List of Publications by Year
in descending order

25	2,615	471061 17	610482 24
papers	citations	h-index	g-index

26	26	26	2498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stiffness Variable Polymers Comprising Phaseâ€Changing Sideâ€Chains: Material Syntheses and Application Explorations. Advanced Materials, 2022, 34, e2109798.	11.1	24
2	Metabolomics-Driven Identification of the Rate-Limiting Steps in 1-Propanol Production. Frontiers in Microbiology, 2022, 13, 871624.	1.5	4
3	Dual-functional antibiofilm polymer composite for biodegradable medical devices. Materials Science and Engineering C, 2021, 123, 111985.	3.8	9
4	Overcoming glutamate auxotrophy in Escherichia coli itaconate overproducer by the Weimberg pathway. Metabolic Engineering Communications, 2021, 13, e00190.	1.9	8
5	Photosynthetic Reduction of Xylose to Xylitol Using Cyanobacteria. Biotechnology Journal, 2020, 15, e1900354.	1.8	12
6	Biotransformation of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid by a Syntrophic Consortium of Engineered Synechococcus elongatus and Pseudomonas putida. Biotechnology Journal, 2020, 15, e1900357.	1.8	16
7	Identifying metabolic elements that contribute to productivity of 1-propanol bioproduction using metabolomic analysis. Metabolomics, 2018, 14, 96.	1.4	3
8	Engineering efficient production of itaconic acid from diverse substrates in Escherichia coli. Journal of Biotechnology, 2017, 249, 73-81.	1.9	31
9	Selection of an endogenous 2,3-butanediol pathway in Escherichia coli by fermentative redox balance. Metabolic Engineering, 2017, 39, 181-191.	3.6	26
10	Saturated mutagenesis of ketoisovalerate decarboxylase V461 enabled specific synthesis of 1-pentanol via the ketoacid elongation cycle. Scientific Reports, 2017, 7, 11284.	1.6	26
11	Engineering cofactor flexibility enhanced 2,3-butanediol production in Escherichia coli. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 1605-1612.	1.4	7
12	CRISPR-Cas9 for the genome engineering of cyanobacteria and succinate production. Metabolic Engineering, 2016, 38, 293-302.	3.6	181
13	CRISPR interference (CRISPRi) for gene regulation and succinate production in cyanobacterium S. elongatus PCC 7942. Microbial Cell Factories, 2016, 15, 196.	1.9	128
14	Self-regulated 1-butanol production in Escherichia coli based on the endogenous fermentative control. Biotechnology for Biofuels, 2016, 9, 267.	6.2	18
15	Using a Microfluidic Gradient Generator to Characterize BG-11 Medium for the Growth of Cyanobacteria Synechococcus elongatus PCC7942. Micromachines, 2015, 6, 1755-1767.	1.4	18
16	Using gradient micro-fluidics chips to optimize BG-11 medium for the growth of cyanobacteria Synechococcus elongatus PCC7942. , 2015, , .		0
17	Metabolic engineering of cyanobacteria for photosynthetic 3-hydroxypropionic acid production from CO2 using Synechococcus elongatus PCC 7942. Metabolic Engineering, 2015, 31, 163-170.	3.6	90
18	Isobutanol production as an alternative metabolic sink to rescue the growth deficiency of the glycogen mutant of Synechococcus elongatus PCC 7942. Photosynthesis Research, 2014, 120, 301-310.	1.6	101

#	Article	IF	Citations
19	Synergy as design principle for metabolic engineering of 1-propanol production in Escherichia coli. Metabolic Engineering, 2013, 17, 12-22.	3.6	59
20	Photosynthetic production of 2-methyl-1-butanol from CO2 in cyanobacterium Synechococcus elongatus PCC7942 and characterization of the native acetohydroxyacid synthase. Energy and Environmental Science, 2012, 5, 9574.	15.6	99
21	Extending Carbon Chain Length of 1-Butanol Pathway for 1-Hexanol Synthesis from Glucose by Engineered Escherichia coli. Journal of the American Chemical Society, 2011, 133, 11399-11401.	6.6	131
22	Conversion of proteins into biofuels by engineering nitrogen flux. Nature Biotechnology, 2011, 29, 346-351.	9.4	265
23	Driving Forces Enable High-Titer Anaerobic 1-Butanol Synthesis in Escherichia coli. Applied and Environmental Microbiology, 2011, 77, 2905-2915.	1.4	572
24	Metabolic engineering of Escherichia coli for 1-butanol production. Metabolic Engineering, 2008, 10, 305-311.	3.6	764
25	Directed Evolution of Ribosomal Protein S1 for Enhanced Translational Efficiency of High GC Rhodopseudomonas palustris DNA in Escherichia coli. Journal of Biological Chemistry, 2007, 282, 18929-18936.	1.6	23