Yun Chen

List of Publications by Year
in descending order

49 papers	4,391 citations	136950 32 h-index	197818 49 g-index
52 all docs	52 docs citations	52 times ranked	3884 citing authors

#	Article	IF	Citations
1	Altered sterol composition renders yeast thermotolerant. Science, 2014, 346, 75-78.	12.6	368
2	Establishing a platform cell factory through engineering of yeast acetyl-CoA metabolism. Metabolic Engineering, 2013, 15, 48-54.	7.0	268
3	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
4	Third-generation biorefineries as the means to produce fuels and chemicals from CO2. Nature Catalysis, 2020, 3, 274-288.	34.4	245
5	De novo production of resveratrol from glucose or ethanol by engineered Saccharomyces cerevisiae. Metabolic Engineering, 2015, 32, 1-11.	7.0	242
6	Microbial acetyl-CoA metabolism and metabolic engineering. Metabolic Engineering, 2015, 28, 28-42.	7.0	237
7	Dynamic control of gene expression in Saccharomyces cerevisiae engineered for the production of plant sesquitepene Î±-santalene in a fed-batch mode. Metabolic Engineering, 2012, 14, 91-103.	7.0	215
8	Diversion of Flux toward Sesquiterpene Production in <i>Saccharomyces cerevisiae</i> by Fusion of Host and Heterologous Enzymes. Applied and Environmental Microbiology, 2011, 77, 1033-1040.	3.1	194
9	Improving Production of Malonyl Coenzyme A-Derived Metabolites by Abolishing Snf1-Dependent Regulation of Acc1. MBio, 2014, 5, e01130-14.	4.1	194
10	Rewiring carbon metabolism in yeast for high level production of aromatic chemicals. Nature Communications, 2019, 10, 4976.	12.8	177
11	Biobased organic acids production by metabolically engineered microorganisms. Current Opinion in Biotechnology, 2016, 37, 165-172.	6.6	130
12	Coupled incremental precursor and co-factor supply improves 3-hydroxypropionic acid production in Saccharomyces cerevisiae. Metabolic Engineering, 2014, 22, 104-109.	7.0	123
13	Advances in metabolic pathway and strain engineering paving the way for sustainable production of chemical building blocks. Current Opinion in Biotechnology, 2013, 24, 965-972.	6.6	111
14	Profiling of Cytosolic and Peroxisomal Acetyl-CoA Metabolism in Saccharomyces cerevisiae. PLoS ONE, 2012, 7, e42475.	2.5	100
15	Engineering and systems-level analysis of Saccharomyces cerevisiae for production of 3-hydroxypropionic acid via malonyl-CoA reductase-dependent pathway. Microbial Cell Factories, 2016, 15, 53.	4.0	98
16	Improving biobutanol production in engineered <i>Saccharomyces cerevisiae</i> by manipulation of acetyl-CoA metabolism. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 1051-1056.	3.0	96
17	From flavors and pharmaceuticals to advanced biofuels: Production of isoprenoids in <i>Saccharomyces cerevisiae</i>. Biotechnology Journal, 2013, 8, 1435-1444.	3.5	91
18	Engineering of acetyl-CoA metabolism for the improved production of polyhydroxybutyrate in Saccharomyces cerevisiae. AMB Express, 2012, 2, 52.	3.0	83

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19	Multidimensional engineering of Saccharomyces cerevisiae for efficient synthesis of medium-chain fatty acids. Nature Catalysis, 2020, 3, 64-74.	34.4	80
20	Global rewiring of cellular metabolism renders Saccharomyces cerevisiae Crabtree negative. Nature Communications, 2018, 9, 3059.	12.8	79
21	Genetic Modulation of the Overexpression of Tailoring Genes <i>eryK</i> and <i>eryG</i> Leading to the Improvement of Erythromycin A Purity and Production in <i>Saccharopolyspora erythraea</i> Fermentation. Applied and Environmental Microbiology, 2008, 74, 1820-1828.	3.1	77
22	Harnessing xylose pathways for biofuels production. Current Opinion in Biotechnology, 2019, 57, 56-65.	6.6	71
23	Enhancing the copy number of episomal plasmids in Saccharomyces cerevisiae for improved protein production. FEMS Yeast Research, 2012, 12, 598-607.	2.3	66
24	Adaptive laboratory evolution of tolerance to dicarboxylic acids in Saccharomyces cerevisiae. Metabolic Engineering, 2019, 56, 130-141.	7.0	63
25	Thermotolerant yeasts selected by adaptive evolution express heat stress response at 30â€‰Â°C. Scientific Reports, 2016, 6, 27003.	3.3	62
26	De novo biosynthesis of bioactive isoflavonoids by engineered yeast cell factories. Nature Communications, 2021, 12, 6085.	12.8	62
27	Production of 3-hydroxypropionic acid from glucose and xylose by metabolically engineered Saccharomyces cerevisiae. Metabolic Engineering Communications, 2015, 2, 132-136.	3.6	59
28	Comparison of the metabolic response to over-production of p-coumaric acid in two yeast strains. Metabolic Engineering, 2017, 44, 265-272.	7.0	51
29	Expanding the Dynamic Range of a Transcription Factor-Based Biosensor in <i>Saccharomyces cerevisiae</i>. ACS Synthetic Biology, 2019, 8, 1968-1975.	3.8	44
30	Elucidating aromatic acid tolerance at low pH in <i>Saccharomyces cerevisiae</i> using adaptive laboratory evolution. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27954-27961.	7.1	40
31	Functional expression and evaluation of heterologous phosphoketolases in Saccharomyces cerevisiae. AMB Express, 2016, 6, 115.	3.0	39
32	Rewiring Central Carbon Metabolism Ensures Increased Provision of Acetyl-CoA and NADPH Required for 3-OH-Propionic Acid Production. ACS Synthetic Biology, 2020, 9, 3236-3244.	3.8	36
33	Current state of aromatics production using yeast: achievements and challenges. Current Opinion in Biotechnology, 2020, 65, 65-74.	6.6	35
34	Elimination of the last reactions in ergosterol biosynthesis alters the resistance of Saccharomyces cerevisiae to multiple stresses. FEMS Yeast Research, 2017, 17, .	2.3	34
35	Effects of acetoacetyl-CoA synthase expression on production of farnesene in <i>Saccharomyces cerevisiae</i>. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 911-922.	3.0	30
36	Ach1 is involved in shuttling mitochondrial acetyl units for cytosolic C2 provision in Saccharomyces cerevisiae lacking pyruvate decarboxylase. FEMS Yeast Research, 2015, 15, .	2.3	28

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37	Heterologous phosphoketolase expression redirects flux towards acetate, perturbs sugar phosphate pools and increases respiratory demand in Saccharomyces cerevisiae. Microbial Cell Factories, 2019, 18, 25.	4.0	27
38	Metabolic engineering and transcriptomic analysis of Saccharomyces cerevisiae producing p-coumaric acid from xylose. Microbial Cell Factories, 2019, 18, 191.	4.0	26
39	Metabolic network remodelling enhances yeastâ€™s fitness on xylose using aerobic glycolysis. Nature Catalysis, 2021, 4, 783-796.	34.4	23
40	Yeast optimizes metal utilization based on metabolic network and enzyme kinetics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
41	Strategies to increase tolerance and robustness of industrial microorganisms. Synthetic and Systems Biotechnology, 2022, 7, 533-540.	3.7	22
42	Adaptive mutations in sugar metabolism restore growth on glucose in a pyruvate decarboxylase negative yeast strain. Microbial Cell Factories, 2015, 14, 116.	4.0	19
43	Functional pyruvate formate lyase pathway expressed with two different electron donors in Saccharomyces cerevisiae at aerobic growth. FEMS Yeast Research, 2015, 15, fov024.	2.3	17
44	Modular Pathway Rewiring of Yeast for Amino Acid Production. Methods in Enzymology, 2018, 608, 417-439.	1.0	12
45	Strategies and challenges with the microbial conversion of methanol to highâ€value chemicals. Biotechnology and Bioengineering, 2021, 118, 3655-3668.	3.3	12
46	Enabling Technologies to Advance Microbial Isoprenoid Production. Advances in Biochemical Engineering/Biotechnology, 2014, 148, 143-160.	1.1	10
47	Effects of overexpression of <i>STB5</i> in <i>Saccharomyces cerevisiae</i> on fatty acid biosynthesis, physiology and transcriptome. FEMS Yeast Research, 2019, 19, .	2.3	8
48	Preparation of carbon nanotube/epoxy composite films with high tensile strength and electrical conductivity by impregnation under pressure. Frontiers of Materials Science, 2019, 13, 165-173.	2.2	7
49	Functional characterization of (S)â€“N-methylcoclaurine 3â€²-hydroxylase (NMCH) involved in the biosynthesis of benzylisoquinoline alkaloids in Corydalis yanhusuo. Plant Physiology and Biochemistry, 2021, 168, 507-515.	5.8	6