

Yu Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8773236/publications.pdf>

Version: 2024-02-01

16
papers

852
citations

623734

14
h-index

940533

16
g-index

20
all docs

20
docs citations

20
times ranked

818
citing authors

#	ARTICLE	IF	CITATIONS
1	Rewiring carbon metabolism in yeast for high level production of aromatic chemicals. Nature Communications, 2019, 10, 4976.	12.8	177
2	Combining mechanistic and machine learning models for predictive engineering and optimization of tryptophan metabolism. Nature Communications, 2020, 11, 4880.	12.8	137
3	Deep learning-based kcat prediction enables improved enzyme-constrained model reconstruction. Nature Catalysis, 2022, 5, 662-672.	34.4	98
4	Energy metabolism controls phenotypes by protein efficiency and allocation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17592-17597.	7.1	96
5	Engineering cofactor supply and recycling to drive phenolic acid biosynthesis in yeast. Nature Chemical Biology, 2022, 18, 520-529.	8.0	65
6	Proteome constraints reveal targets for improving microbial fitness in nutrient-rich environments. Molecular Systems Biology, 2021, 17, e10093.	7.2	46
7	Mathematical modeling of proteome constraints within metabolism. Current Opinion in Systems Biology, 2021, 25, 50-56.	2.6	36
8	Proteome allocations change linearly with the specific growth rate of <i>Saccharomyces cerevisiae</i> under glucose limitation. Nature Communications, 2022, 13, .	12.8	28
9	Engineering yeast metabolism for the discovery and production of polyamines and polyamine analogues. Nature Catalysis, 2021, 4, 498-509.	34.4	26
10	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
11	In vitro turnover numbers do not reflect in vivo activities of yeast enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
12	Genome-scale modeling of yeast metabolism: retrospectives and perspectives. FEMS Yeast Research, 2022, 22, .	2.3	20
13	Improving recombinant protein production by yeast through genome-scale modeling using proteome constraints. Nature Communications, 2022, 13, .	12.8	18
14	Yeast metabolic innovations emerged via expanded metabolic network and gene positive selection. Molecular Systems Biology, 2021, 17, e10427.	7.2	17
15	Genome-scale modeling for <i>Bacillus coagulans</i> to understand the metabolic characteristics. Biotechnology and Bioengineering, 2020, 117, 3545-3558.	3.3	15
16	Yeast has evolved to minimize protein resource cost for synthesizing amino acids. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	11