

# 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

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h-index

940533

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20  
all docs

20  
docs citations

20  
times ranked

818  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-scale modeling of yeast metabolism: retrospectives and perspectives. FEMS Yeast Research, 2022, 22, .	2.3	20
2	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
3	Engineering cofactor supply and recycling to drive phenolic acid biosynthesis in yeast. Nature Chemical Biology, 2022, 18, 520-529.	8.0	65
4	Improving recombinant protein production by yeast through genome-scale modeling using proteome constraints. Nature Communications, 2022, 13, .	12.8	18
5	Proteome allocations change linearly with the specific growth rate of <i>Saccharomyces cerevisiae</i> under glucose limitation. Nature Communications, 2022, 13, .	12.8	28
6	Deep learning-based kcat prediction enables improved enzyme-constrained model reconstruction. Nature Catalysis, 2022, 5, 662-672.	34.4	98
7	Mathematical modeling of proteome constraints within metabolism. Current Opinion in Systems Biology, 2021, 25, 50-56.	2.6	36
8	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
9	Proteome constraints reveal targets for improving microbial fitness in nutrient-rich environments. Molecular Systems Biology, 2021, 17, e10093.	7.2	46
10	Engineering yeast metabolism for the discovery and production of polyamines and polyamine analogues. Nature Catalysis, 2021, 4, 498-509.	34.4	26
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	Yeast metabolic innovations emerged via expanded metabolic network and gene positive selection. Molecular Systems Biology, 2021, 17, e10427.	7.2	17
13	Combining mechanistic and machine learning models for predictive engineering and optimization of tryptophan metabolism. Nature Communications, 2020, 11, 4880.	12.8	137
14	Genome-scale modeling for <i>Bacillus coagulans</i> to understand the metabolic characteristics. Biotechnology and Bioengineering, 2020, 117, 3545-3558.	3.3	15
15	Rewiring carbon metabolism in yeast for high level production of aromatic chemicals. Nature Communications, 2019, 10, 4976.	12.8	177
16	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