Lin Wang

List of Publications by Year
in descending order

14	1,270	933264	1058333
papers	citations	10	14
		h-index	g-index

16	16	16	2035
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Creation and analysis of biochemical constraint-based models using the COBRA Toolbox v.3.0. Nature Protocols, 2019, 14, 639-702.	5.5	833
2	A review of computational tools for design and reconstruction of metabolic pathways. Synthetic and Systems Biotechnology, 2017, 2, 243-252.	1.8	98
3	Standardizing biomass reactions and ensuring complete mass balance in genome-scale metabolic models. Bioinformatics, 2017, 33, 3603-3609.	1.8	86
4	Pathway design using de novo steps through uncharted biochemical spaces. Nature Communications, 2018, 9, 184.	5.8	77
5	MinGenome: An <i>In Silico</i> Top-Down Approach for the Synthesis of Minimized Genomes. ACS Synthetic Biology, 2018, 7, 462-473.	1.9	45
6	Building kinetic models for metabolic engineering. Current Opinion in Biotechnology, 2021, 67, 35-41.	3.3	30
7	Recent advances in constraint and machine learning-based metabolic modeling by leveraging stoichiometric balances, thermodynamic feasibility and kinetic law formalisms. Metabolic Engineering, 2021, 63, 13-33.	3.6	26
8	Accelerating flux balance calculations in genome-scale metabolic models by localizing the application of loopless constraints. Bioinformatics, 2018, 34, 4248-4255.	1.8	22
9	Pareto Optimality Explanation of the Glycolytic Alternatives in Nature. Scientific Reports, 2019, 9, 2633.	1.6	16
10	Exploring the combinatorial space of complete pathways to chemicals. Biochemical Society Transactions, 2018, 46, 513-522.	1.6	14
11	dGPredictor: Automated fragmentation method for metabolic reaction free energy prediction and de novo pathway design. PLoS Computational Biology, 2021, 17, e1009448.	1.5	8
12	Metabolic flux analysis reaching genome wide coverage: lessons learned and future perspectives. Current Opinion in Chemical Engineering, 2020, 30, 17-25.	3.8	7
13	A Genome-Scale Metabolic Model of Anabaena 33047 to Guide Genetic Modifications to Overproduce Nylon Monomers. Metabolites, 2021, 11, 168.	1.3	4
14	Computationally Prospecting Potential Pathways from Lignin Monomers and Dimers toward Aromatic Compounds. ACS Synthetic Biology, 2021, 10, 1064-1076.	1.9	4