Lin Wang

List of Publications by Year
in descending order

15 papers	1,270 citations	933447 10 h-index	1058476 14 g-index
16 all docs	16 docs citations	16 times ranked	2035 citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.0	26
2	Building kinetic models for metabolic engineering. Current Opinion in Biotechnology, 2021, 67, 35-41.	6.6	30
3	A Genome-Scale Metabolic Model of Anabaena 33047 to Guide Genetic Modifications to Overproduce Nylon Monomers. Metabolites, 2021, 11, 168.	2.9	4
4	Computationally Prospecting Potential Pathways from Lignin Monomers and Dimers toward Aromatic Compounds. ACS Synthetic Biology, 2021, 10, 1064-1076.	3.8	4
5	dGPredictor: Automated fragmentation method for metabolic reaction free energy prediction and de novo pathway design. PLoS Computational Biology, 2021, 17, e1009448.	3.2	8
6	Metabolic flux analysis reaching genome wide coverage: lessons learned and future perspectives. Current Opinion in Chemical Engineering, 2020, 30, 17-25.	7.8	7
7	Pareto Optimality Explanation of the Glycolytic Alternatives in Nature. Scientific Reports, 2019, 9, 2633.	3.3	16
8	Creation and analysis of biochemical constraint-based models using the COBRA Toolbox v.3.0. Nature Protocols, 2019, 14, 639-702.	12.0	833
9	Principles of Systems Biology, No. 26. Cell Systems, 2018, 6, 143-145.	6.2	0
10	Exploring the combinatorial space of complete pathways to chemicals. Biochemical Society Transactions, 2018, 46, 513-522.	3.4	14
11	MinGenome: An <i>In Silico</i> Top-Down Approach for the Synthesis of Minimized Genomes. ACS Synthetic Biology, 2018, 7, 462-473.	3.8	45
12	Pathway design using de novo steps through uncharted biochemical spaces. Nature Communications, 2018, 9, 184.	12.8	77
13	Accelerating flux balance calculations in genome-scale metabolic models by localizing the application of loopless constraints. Bioinformatics, 2018, 34, 4248-4255.	4.1	22
14	Standardizing biomass reactions and ensuring complete mass balance in genome-scale metabolic models. Bioinformatics, 2017, 33, 3603-3609.	4.1	86
15	A review of computational tools for design and reconstruction of metabolic pathways. Synthetic and Systems Biotechnology, 2017, 2, 243-252.	3.7	98