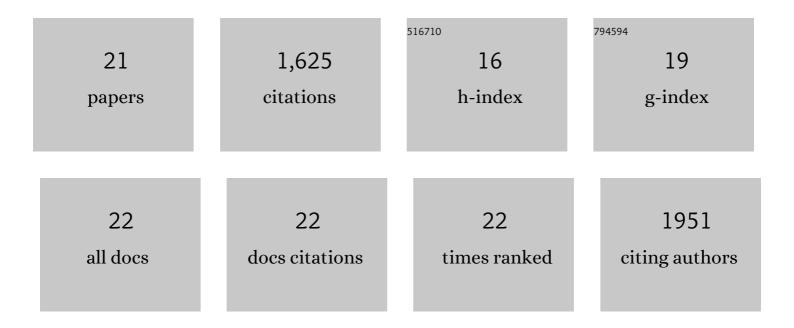
Patrick F Suthers

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5058023/publications.pdf Version: 2024-02-01



DATDICK F SUTHEDS

#	Article	IF	CITATIONS
1	OptForce: An Optimization Procedure for Identifying All Genetic Manipulations Leading to Targeted Overproductions. PLoS Computational Biology, 2010, 6, e1000744.	3.2	346
2	Zea mays iRS1563: A Comprehensive Genome-Scale Metabolic Reconstruction of Maize Metabolism. PLoS ONE, 2011, 6, e21784.	2.5	189
3	Effects of Escherichia coli Physiology on Growth of Phage T7 In Vivo and In Silico. Journal of Bacteriology, 2002, 184, 1888-1894.	2.2	146
4	Genomeâ€scale gene/reaction essentiality and synthetic lethality analysis. Molecular Systems Biology, 2009, 5, 301.	7.2	143
5	Mathematical optimization applications in metabolic networks. Metabolic Engineering, 2012, 14, 672-686.	7.0	123
6	MetRxn: a knowledgebase of metabolites and reactions spanning metabolic models and databases. BMC Bioinformatics, 2012, 13, 6.	2.6	120
7	A Genome-Scale Metabolic Reconstruction of Mycoplasma genitalium, iPS189. PLoS Computational Biology, 2009, 5, e1000285.	3.2	119
8	Metabolic flux elucidation for large-scale models using 13C labeled isotopes. Metabolic Engineering, 2007, 9, 387-405.	7.0	104
9	Genome Scale Reconstruction of a Salmonella Metabolic Model. Journal of Biological Chemistry, 2009, 284, 29480-29488.	3.4	85
10	A comprehensive genome-scale model for Rhodosporidium toruloides IFO0880 accounting for functional genomics and phenotypic data. Metabolic Engineering Communications, 2019, 9, e00101.	3.6	55
11	Construction of an <i>E. Coli</i> genomeâ€scale atom mapping model for MFA calculations. Biotechnology and Bioengineering, 2011, 108, 1372-1382.	3.3	42
12	Identification of optimal measurement sets for complete flux elucidation in metabolic flux analysis experiments. Biotechnology and Bioengineering, 2008, 100, 1039-1049.	3.3	35
13	Building kinetic models for metabolic engineering. Current Opinion in Biotechnology, 2021, 67, 35-41.	6.6	30
14	Improved computational performance of MFA using elementary metabolite units and flux coupling. Metabolic Engineering, 2010, 12, 123-128.	7.0	27
15	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
16	Genome-scale metabolic reconstruction of the non-model yeast Issatchenkia orientalis SD108 and its application to organic acids production. Metabolic Engineering Communications, 2020, 11, e00148.	3.6	20
17	Challenges of cultivated meat production and applications of genomeâ€scale metabolic modeling. AICHE Journal, 2020, 66, e16235.	3.6	7
18	Rapid responses of ribosomal RNA synthesis to nutrient shifts. Biotechnology and Bioengineering, 2007, 97, 1230-1245.	3.3	4

#	Article	IF	CITATIONS
19	Examining organic acid production potential and growthâ€coupled strategies in <i>Issatchenkia orientalis</i> using constraintâ€based modeling. Biotechnology Progress, 2022, 38, .	2.6	4
20	Using Systems Engineering to Reconstruct, Analyze and Redesign Metabolism. Computer Aided Chemical Engineering, 2009, , 113-115.	0.5	0
21	Orchestrating hi-fi annotations. Nature Chemical Biology, 2012, 8, 810-811.	8.0	0