Daniel C Zielinski

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11367446/publications.pdf

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24 papers 3,535 citations

471061 17 h-index 23 g-index

26 all docs

26 docs citations

26 times ranked 4551 citing authors

#	Article	IF	CITATIONS
1	MASSpy: Building, simulating, and visualizing dynamic biological models in Python using mass action kinetics. PLoS Computational Biology, 2021, 17, e1008208.	1.5	20
2	The quantitative metabolome is shaped by abiotic constraints. Nature Communications, 2021, 12, 3178.	5.8	15
3	<i>Escherichia coli Oata-Driven Strain Design Using Aggregated Adaptive Laboratory Evolution Mutational Data. ACS Synthetic Biology, 2021, 10, 3379-3395.</i>	1.9	5
4	Recon3D enables a three-dimensional view of gene variation in human metabolism. Nature Biotechnology, 2018, 36, 272-281.	9.4	520
5	Machine learning applied to enzyme turnover numbers reveals protein structural correlates and improves metabolic models. Nature Communications, 2018, 9, 5252.	5.8	151
6	Modeling genome-wide enzyme evolution predicts strong epistasis underlying catalytic turnover rates. Nature Communications, 2018, 9, 5270.	5.8	16
7	Thermodynamic favorability and pathway yield as evolutionary tradeoffs in biosynthetic pathway choice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11339-11344.	3.3	30
8	Estimating Metabolic Equilibrium Constants: Progress and Future Challenges. Trends in Biochemical Sciences, 2018, 43, 960-969.	3.7	15
9	Temperature-Dependent Estimation of Gibbs Energies Using an Updated Group-Contribution Method. Biophysical Journal, 2018, 114, 2691-2702.	0.2	36
10	Systems biology analysis of drivers underlying hallmarks of cancer cell metabolism. Scientific Reports, 2017, 7, 41241.	1.6	87
11	A Systematic Evaluation of Methods for Tailoring Genome-Scale Metabolic Models. Cell Systems, 2017, 4, 318-329.e6.	2.9	178
12	Quantitative time-course metabolomics in human red blood cells reveal the temperature dependence of human metabolic networks. Journal of Biological Chemistry, 2017, 292, 19556-19564.	1.6	45
13	Topological and kinetic determinants of the modal matrices of dynamic models of metabolism. PLoS ONE, 2017, 12, e0189880.	1.1	1
14	Evaluation of rate law approximations in bottom-up kinetic models of metabolism. BMC Systems Biology, 2016, 10, 40.	3.0	26
15	Genome-Scale Metabolic Model for the Green Alga <i>Chlorella vulgaris</i> UTEX 395 Accurately Predicts Phenotypes under Autotrophic, Heterotrophic, and Mixotrophic Growth Conditions. Plant Physiology, 2016, 172, 589-602.	2.3	86
16	A Consensus Genome-scale Reconstruction of Chinese Hamster Ovary Cell Metabolism. Cell Systems, 2016, 3, 434-443.e8.	2.9	205
17	Recon 2.2: from reconstruction to model of human metabolism. Metabolomics, 2016, 12, 109.	1.4	243
18	Metabolic Analysis of Red Blood Cells Stored at High Temperature. Blood, 2016, 128, 3848-3848.	0.6	0

#	Article	IF	CITATION
19	Pharmacogenomic and clinical data link non-pharmacokinetic metabolic dysregulation to drug side effect pathogenesis. Nature Communications, 2015, 6, 7101.	5.8	41
20	Personalized Whole-Cell Kinetic Models of Metabolism for Discovery in Genomics and Pharmacodynamics. Cell Systems, 2015, 1, 283-292.	2.9	92
21	A Systems Approach to Predict Oncometabolites via Context-Specific Genome-Scale Metabolic Networks. PLoS Computational Biology, 2014, 10, e1003837.	1.5	63
22	Predicting outcomes of steady-state 13C isotope tracing experiments using Monte Carlo sampling. BMC Systems Biology, 2012, 6, 9.	3.0	30
23	Quantitative prediction of cellular metabolism with constraint-based models: the COBRA Toolbox v2.0. Nature Protocols, 2011, 6, 1290-1307.	5 . 5	1,408
24	Model-driven evaluation of the production potential for growth-coupled products of Escherichia coli. Metabolic Engineering, 2010, 12, 173-186.	3.6	221