## Wolfram Liebermeister

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	BioSimulators: a central registry of simulation engines and services for recommending specific tools. Nucleic Acids Research, 2022, 50, W108-W114.	14.5	11
2	Structural Thermokinetic Modelling. Metabolites, 2022, 12, 434.	2.9	2
3	Model Balancing: A Search for In-Vivo Kinetic Constants and Consistent Metabolic States. Metabolites, 2021, 11, 749.	2.9	3
4	Clb3-centered regulations are recurrent across distinct parameter regions in minimal autonomous cell cycle oscillator designs. Npj Systems Biology and Applications, 2020, 6, 8.	3.0	9
5	<scp>SBML</scp> Level 3: an extensible format for the exchange and reuse of biological models. Molecular Systems Biology, 2020, 16, e9110.	7.2	178
6	Automated generation of bacterial resource allocation models. Metabolic Engineering, 2019, 55, 12-22.	7.0	41
7	Parameter balancing: consistent parameter sets for kinetic metabolic models. Bioinformatics, 2019, 35, 3857-3858.	4.1	9
8	Notions of similarity for systems biology models. Briefings in Bioinformatics, 2018, 19, bbw090.	6.5	17
9	Metabolic enzyme cost explains variable trade-offs between microbial growth rate and yield. PLoS Computational Biology, 2018, 14, e1006010.	3.2	76
10	Metabolite–Enzyme Coevolution: From Single Enzymes to Metabolic Pathways and Networks. Annual Review of Biochemistry, 2018, 87, 187-216.	11.1	106
11	Toward Community Standards and Software for Whole-Cell Modeling. IEEE Transactions on Biomedical Engineering, 2016, 63, 2007-2014.	4.2	51
12	SBtab: a flexible table format for data exchange in systems biology. Bioinformatics, 2016, 32, 2559-2561.	4.1	31
13	Global characterization of in vivo enzyme catalytic rates and their correspondence to in vitro <i>k</i> <sub>cat</sub> measurements. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3401-3406.	7.1	212
14	The Protein Cost of Metabolic Fluxes: Prediction from Enzymatic Rate Laws and Cost Minimization. PLoS Computational Biology, 2016, 12, e1005167.	3.2	144
15	SBML Level 3 package: Hierarchical Model Composition, Version 1 Release 3. Journal of Integrative Bioinformatics, 2015, 12, 603-659.	1.5	39
16	SBML Level 3 package: Hierarchical Model Composition, Version 1 Release 3. Journal of Integrative Bioinformatics, 2015, 12, 268.	1.5	31
17	Pathway Thermodynamics Highlights Kinetic Obstacles in Central Metabolism. PLoS Computational Biology, 2014, 10, e1003483.	3.2	249
18	Visual account of protein investment in cellular functions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8488-8493.	7.1	304

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19	A note on the kinetics of enzyme action: A decomposition that highlights thermodynamic effects. FEBS Letters, 2013, 587, 2772-2777.	2.8	108
20	Spanning high-dimensional expression space using ribosome-binding site combinatorics. Nucleic Acids Research, 2013, 41, e98-e98.	14.5	165
21	Glycolytic strategy as a tradeoff between energy yield and protein cost. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10039-10044.	7.1	446
22	Steady-State Metabolite Concentrations Reflect a Balance between Maximizing Enzyme Efficiency and Minimizing Total Metabolite Load. PLoS ONE, 2013, 8, e75370.	2.5	67
23	Systematic Construction of Kinetic Models from Genome-Scale Metabolic Networks. PLoS ONE, 2013, 8, e79195.	2.5	102
24	Global Network Reorganization During Dynamic Adaptations of <i>Bacillus subtilis</i> Metabolism. Science, 2012, 335, 1099-1103.	12.6	255
25	Propagating semantic information in biochemical network models. BMC Bioinformatics, 2012, 13, 18.	2.6	11
26	Condition-Dependent Transcriptome Reveals High-Level Regulatory Architecture in <i>Bacillus subtilis</i> . Science, 2012, 335, 1103-1106.	12.6	809
27	The Moderately Efficient Enzyme: Evolutionary and Physicochemical Trends Shaping Enzyme Parameters. Biochemistry, 2011, 50, 4402-4410.	2.5	810
28	Sustainable Model Building. Methods in Enzymology, 2011, 500, 371-395.	1.0	11
29	Retrieval, alignment, and clustering of computational models based on semantic annotations. Molecular Systems Biology, 2011, 7, 512.	7.2	32
30	Modular rate laws for enzymatic reactions: thermodynamics, elasticities and implementation. Bioinformatics, 2010, 26, 1528-1534.	4.1	110
31	Annotation and merging of SBML models with semanticSBML. Bioinformatics, 2010, 26, 421-422.	4.1	88
32	Parameter Balancing in Kinetic Models of Cell Metabolism. Journal of Physical Chemistry B, 2010, 114, 16298-16303.	2.6	43
33	Integrating quantitative proteomics and metabolomics with a genome-scale metabolic network model. Bioinformatics, 2010, 26, i255-i260.	4.1	219
34	A Quantitative Study of the Hog1 MAPK Response to Fluctuating Osmotic Stress in Saccharomyces cerevisiae. PLoS ONE, 2010, 5, e9522.	2.5	64
35	Nested uncertainties in biochemical models. IET Systems Biology, 2009, 3, 1-9.	1.5	35
36	A consensus yeast metabolic network reconstruction obtained from a community approach to systems biology. Nature Biotechnology, 2008, 26, 1155-1160.	17.5	530

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37	EXPLORING THE EFFECT OF VARIABLE ENZYME CONCENTRATIONS IN A KINETIC MODEL OF YEAST GLYCOLYSIS. , 2008, , .		7
38	Systems biology standards—the community speaks. Nature Biotechnology, 2007, 25, 390-391.	17.5	87
39	AUTOMATICALLY GENERATED MODEL OF A METABOLIC NETWORK. , 2007, , .		5
40	Bringing metabolic networks to life: convenience rate law and thermodynamic constraints. Theoretical Biology and Medical Modelling, 2006, 3, 41.	2.1	191
41	Bringing metabolic networks to life: integration of kinetic, metabolic, and proteomic data. Theoretical Biology and Medical Modelling, 2006, 3, 42.	2.1	61
42	A comprehensive library of fluorescent transcriptional reporters for Escherichia coli. Nature Methods, 2006, 3, 623-628.	19.0	680
43	Mathematical modeling of intracellular signaling pathways. BMC Neuroscience, 2006, 7, S10.	1.9	119
44	SBMLmerge, a system for combining biochemical network models. Genome Informatics, 2006, 17, 62-71.	0.4	21
45	Response to temporal parameter fluctuations in biochemical networks. Journal of Theoretical Biology, 2005, 234, 423-438.	1.7	11
46	Biochemical network models simplified by balanced truncation. FEBS Journal, 2005, 272, 4034-4043.	4.7	51
47	Biochemical networks with uncertain parameters. IET Systems Biology, 2005, 152, 97.	2.0	47
48	Predicting Physiological Concentrations of Metabolites from Their Molecular Structure. Journal of Computational Biology, 2005, 12, 1307-1315.	1.6	9
49	A theory of optimal differential gene expression. BioSystems, 2004, 76, 261-278.	2.0	21
50	Inferring dynamic properties of biochemical reaction networks from structural knowledge. Genome Informatics, 2004, 15, 125-37.	0.4	12
51	Does mapping reveal correlation between gene expression and protein–protein interaction?. Nature Genetics, 2003, 33, 15-16.	21.4	20
52	Linear modes of gene expression determined by independent component analysis. Bioinformatics, 2002, 18, 51-60.	4.1	303
53	Ratcheting in post-translational protein translocation: a mathematical model11Edited by G. von Heijne. Journal of Molecular Biology, 2001, 305, 643-656.	4.2	50