Sven Sahle

List of Publications by Year
in descending order

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41 papers	4,589 citations	430874 18 h-index	289244 40 g-index
43 all docs	43 docs citations	43 times ranked	5744 citing authors

#	Article	IF	Citations
1	PEtabâ€"Interoperable specification of parameter estimation problems in systems biology. PLoS Computational Biology, 2021, 17, e1008646.	3.2	55
2	<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
3	The Systems Biology Markup Language (SBML): Language Specification for Level 3 Version 2 Core Release 2. Journal of Integrative Bioinformatics, 2019, 16, .	1.5	78
4	Quantitative systems pharmacology of interferon alpha administration: A multi-scale approach. PLoS ONE, 2019, 14, e0209587.	2.5	7
5	Misinterpretation risks of global stochastic optimisation of kinetic models revealed by multiple optimisation runs. Mathematical Biosciences, 2019, 307, 25-32.	1.9	4
6	Robustness of frequency vs. amplitude coding of calcium oscillations during changing temperatures. Biophysical Chemistry, 2019, 245, 17-24.	2.8	5
7	SBML Level 3 package: Render, Version 1, Release 1. Journal of Integrative Bioinformatics, 2018, 15, .	1.5	18
8	Quantitative and integrative analysis of paracrine hepatocyte activation by nonparenchymal cells upon lipopolysaccharide induction. FEBS Journal, 2017, 284, 796-813.	4.7	1
9	COPASI and its applications in biotechnology. Journal of Biotechnology, 2017, 261, 215-220.	3.8	78
10	A20/TNFAIP3 Discriminates Tumor Necrosis Factor (TNF)-Induced NF-Î°B from JNK Pathway Activation in Hepatocytes. Frontiers in Physiology, 2017, 8, 610.	2.8	16
11	Comparison of approaches for parameter estimation on stochastic models: Generic least squares versus specialized approaches. Computational Biology and Chemistry, 2016, 61, 75-85.	2.3	5
12	A termination criterion for parameter estimation in stochastic models in systems biology. BioSystems, 2015, 137, 55-63.	2.0	2
13	Exploiting intrinsic fluctuations to identify model parameters. IET Systems Biology, 2015, 9, 64-73.	1.5	9
14	Deterministic inference for stochastic systems using multiple shooting and a linear noise approximation for the transition probabilities. IET Systems Biology, 2015, 9, 181-192.	1.5	14
15	The Systems Biology Markup Language (SBML) Level 3 Package: Layout, Version 1 Core. Journal of Integrative Bioinformatics, 2015, 12, 550-602.	1.5	18
16	A new model for the aerobic metabolism of yeast allows the detailed analysis of the metabolic regulation during glucose pulse. Biophysical Chemistry, 2015, 206, 40-57.	2.8	7
17	The Systems Biology Markup Language (SBML): Language Specification for Level 3 Version 1 Core. Journal of Integrative Bioinformatics, 2015, 12, 266.	1.5	102
18	The Systems Biology Markup Language (SBML) Level 3 Package: Layout, Version 1 Core. Journal of Integrative Bioinformatics, 2015, 12, 267.	1.5	17

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19	Glycolytic oscillations in a model of a lactic acid bacterium metabolism. Biophysical Chemistry, 2013, 172, 53-60.	2.8	13
20	A Systems Biology Study on NFÎºB Signaling in Primary Mouse Hepatocytes. Frontiers in Physiology, 2012, 3, 466.	2.8	9
21	Simplification of biochemical models: a general approach based on the analysis of the impact of individual species and reactions on the systems dynamics. BMC Systems Biology, 2012, 6, 14.	3.0	20
22	Dynamics and feedback loops in the transforming growth factor Î² signaling pathway. Biophysical Chemistry, 2012, 162, 22-34.	2.8	29
23	Applications and trends in systems biology in biochemistry. FEBS Journal, 2011, 278, 2767-2857.	4.7	53
24	Reproducible computational biology experiments with SED-ML - The Simulation Experiment Description Markup Language. BMC Systems Biology, 2011, 5, 198.	3.0	211
25	Minimum Information About a Simulation Experiment (MIASE). PLoS Computational Biology, 2011, 7, e1001122.	3.2	133
26	Combining theoretical analysis and experimental data generation reveals IRF9 as a crucial factor for accelerating interferonâ€ƒÎ±â€induced early antiviral signalling. FEBS Journal, 2010, 277, 4741-4754.	4.7	45
27	Accessible methods for the dynamic time-scale decomposition of biochemical systems. Bioinformatics, 2009, 25, 2816-2823.	4.1	26
28	The Systems Biology Graphical Notation. Nature Biotechnology, 2009, 27, 735-741.	17.5	828
29	Computational Modeling of Biochemical Networks Using COPASI. Methods in Molecular Biology, 2009, 500, 17-59.	0.9	163
30	A new strategy for assessing sensitivities in biochemical models. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3619-3631.	3.4	37
31	SYCAMOREâ€"a <u>sy</u>stems biology <u>c</u>omputational <u>a</u>nalysis and <u>mo</u>deling <u>r</u>esearch <u>e</u>nvironment. Bioinformatics, 2008, 24, 1463-1464.	4.1	31
32	COPASI--a COmplex PAthway SImulator. Bioinformatics, 2006, 22, 3067-3074.	4.1	2,265
33	A model diagram layout extension for SBML. Bioinformatics, 2006, 22, 1879-1885.	4.1	28
34	Detection of Short Term Correlated Events Hidden within Noise. Zeitschrift Fur Physikalische Chemie, 2002, 216, .	2.8	0
35	Local stimulation induces long-range order in spatio-temporal disorder. Journal of Chemical Physics, 1999, 110, 3251-3255.	3.0	34
36	An Electrochemically Induced Oscillatory Instability. Journal of Physical Chemistry A, 1999, 103, 33-37.	2.5	6

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37	Homogeneous and Spatio-temporal Chaos in Biochemical Reactions With Feedback Inhibition. Journal of Theoretical Biology, 1998, 193, 233-242.	1.7	15
38	Spatio-temporal patterns with hyperchaotic dynamics in diffusively coupled biochemical oscillators. Discrete Dynamics in Nature and Society, 1997, 1, 161-167.	0.9	3
39	Transition to Higher Chaos in Diffusively Coupled Chemical Oscillators. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1994, 49, 835-837.	1.5	4
40	Hyperchaos and chaotic hierarchy in lowâ€dimensional chemical systems. Journal of Chemical Physics, 1994, 100, 8907-8911.	3.0	16
41	Modelling of Instabilities in Coupled Electrochemical and Biochemical Reaction Systems. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1993, 48, 643-645.	1.5	0