

Melanie I Stefan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

22
papers

974
citations

14
h-index

31
g-index

36
ext. papers

1,242
ext. citations

9
avg, IF

4.21
L-index

#	Paper	IF	Citations
22	BioModels Database: An enhanced, curated and annotated resource for published quantitative kinetic models. <i>BMC Systems Biology</i> , 2010 , 4, 92	3.5	393
21	Cooperative binding. <i>PLoS Computational Biology</i> , 2013 , 9, e1003106	5	116
20	SBML Level 3: an extensible format for the exchange and reuse of biological models. <i>Molecular Systems Biology</i> , 2020 , 16, e9110	12.2	65
19	Calcium input frequency, duration and amplitude differentially modulate the relative activation of calcineurin and CaMKII. <i>PLoS ONE</i> , 2012 , 7, e43810	3.7	64
18	An allosteric model of calmodulin explains differential activation of PP2B and CaMKII. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 10768-73	11.5	64
17	Cooperative binding mitigates the high-dose hook effect. <i>BMC Systems Biology</i> , 2017 , 11, 74	3.5	31
16	Women are underrepresented in computational biology: An analysis of the scholarly literature in biology, computer science and computational biology. <i>PLoS Computational Biology</i> , 2017 , 13, e1005134	5	31
15	Multi-state modeling of biomolecules. <i>PLoS Computational Biology</i> , 2014 , 10, e1003844	5	28
14	The systems biology format converter. <i>BMC Bioinformatics</i> , 2016 , 17, 154	3.6	24
13	The quantitative methods boot camp: teaching quantitative thinking and computing skills to graduate students in the life sciences. <i>PLoS Computational Biology</i> , 2015 , 11, e1004208	5	20
12	Computing phenomenologic Adair-Klotz constants from microscopic MWC parameters. <i>BMC Systems Biology</i> , 2009 , 3, 68	3.5	18
11	Ligand depletion in vivo modulates the dynamic range and cooperativity of signal transduction. <i>PLoS ONE</i> , 2010 , 5, e8449	3.7	16
10	Biophysical properties of presynaptic short-term plasticity in hippocampal neurons: insights from electrophysiology, imaging and mechanistic models. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 141	6.1	14
9	Structural analysis and stochastic modelling suggest a mechanism for calmodulin trapping by CaMKII. <i>PLoS ONE</i> , 2012 , 7, e29406	3.7	13
8	The first 10 years of the international coordination network for standards in systems and synthetic biology (COMBINE). <i>Journal of Integrative Bioinformatics</i> , 2020 , 17,	3.8	6
7	Cooperativity: a competition of definitions. <i>Journal of Mathematical Biology</i> , 2017 , 74, 1679-1681	2	5
6	A multi-state model of the CaMKII dodecamer suggests a role for calmodulin in maintenance of autophosphorylation. <i>PLoS Computational Biology</i> , 2019 , 15, e1006941	5	4

5	FindSim: A Framework for Integrating Neuronal Data and Signaling Models. <i>Frontiers in Neuroinformatics</i> , 2018 , 12, 38	3.9	3
4	High neural activity accelerates the decline of cognitive plasticity with age in. <i>ELife</i> , 2020 , 9,	8.9	3
3	Using Chemical Kinetics to Model Neuronal Signalling Pathways 2012 , 81-117		1
2	Cooperative Binding Mitigates the High-Dose Hook Effect		1
1	Bayesian Mixed Effects Model and Data Visualization for Understanding Item Response Time and Response Order in Open Online Assessment. <i>Frontiers in Education</i> , 2021 , 5,	2.1	1