

Steven S Andrews

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

2,517
citations

304368

22
h-index

433756

31
g-index

40
all docs

40
docs citations

40
times ranked

2364
citing authors

#	ARTICLE	IF	CITATIONS
1	BioSimulators: a central registry of simulation engines and services for recommending specific tools. <i>Nucleic Acids Research</i> , 2022, 50, W108-W114.	6.5	11
2	Dynamics and Sensitivity of Signaling Pathways. <i>Current Pathobiology Reports</i> , 2022, 10, 11-22.	1.6	2
3	Python interfaces for the Smoldyn simulator. <i>Bioinformatics</i> , 2021, 38, 291-293.	1.8	0
4	Effects of surfaces and macromolecular crowding on bimolecular reaction rates. <i>Physical Biology</i> , 2020, 17, 045001.	0.8	11
5	Physical Principles of Circular Dichroism. <i>Journal of Chemical Education</i> , 2020, 97, 4370-4376.	1.1	19
6	Accurate Particle-Based Reaction Algorithms for Fixed Timestep Simulators. <i>MATRIX Book Series</i> , 2020, , 149-164.	0.2	0
7	Rule-Based Modeling Using Wildcards in the Smoldyn Simulator. <i>Methods in Molecular Biology</i> , 2019, 1945, 179-202.	0.4	3
8	Particle-Based Stochastic Simulators. , 2018, , 1-5.		8
9	Transferring information without distortion. <i>ELife</i> , 2018, 7, .	2.8	4
10	Smoldyn: particle-based simulation with rule-based modeling, improved molecular interaction and a library interface. <i>Bioinformatics</i> , 2017, 33, 710-717.	1.8	89
11	Push-Pull and Feedback Mechanisms Can Align Signaling System Outputs with Inputs. <i>Cell Systems</i> , 2016, 3, 444-455.e2.	2.9	26
12	Crosstalk between the lipopolysaccharide and phospholipid pathways during outer membrane biogenesis in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3108-3113.	3.3	78
13	A Method and On-Line Tool for Maximum Likelihood Calibration of Immunoblots and Other Measurements That Are Quantified in Batches. <i>PLoS ONE</i> , 2016, 11, e0149575.	1.1	8
14	Multiscale reaction-diffusion simulations with Smoldyn. <i>Bioinformatics</i> , 2015, 31, 2406-2408.	1.8	37
15	Methods for modeling cytoskeletal and DNA filaments. <i>Physical Biology</i> , 2014, 11, 011001.	0.8	19
16	An Integrated Model of Transcription Factor Diffusion Shows the Importance of Intersegmental Transfer and Quaternary Protein Structure for Target Site Finding. <i>PLoS ONE</i> , 2014, 9, e108575.	1.1	31
17	The autoregulation of a eukaryotic DNA transposon. <i>ELife</i> , 2013, 2, e00668.	2.8	54
18	Spatial and Stochastic Cellular Modeling with the Smoldyn Simulator. <i>Methods in Molecular Biology</i> , 2012, 804, 519-542.	0.4	55

#	ARTICLE	IF	CITATIONS
19	Detailed Simulations of Cell Biology with Smoldyn 2.1. <i>PLoS Computational Biology</i> , 2010, 6, e1000705.	1.5	285
20	Accurate particle-based simulation of adsorption, desorption and partial transmission. <i>Physical Biology</i> , 2009, 6, 046015.	0.8	68
21	Stochastic Models of Biological Processes. , 2009, , 8730-8749.		24
22	Simulating cell biology. <i>Current Biology</i> , 2006, 16, R523-R527.	1.8	29
23	Simulated Diffusion of Phosphorylated CheY through the Cytoplasm of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2005, 187, 45-53.	1.0	146
24	Stochastic simulation of chemical reactions with spatial resolution and single molecule detail. <i>Physical Biology</i> , 2004, 1, 137-151.	0.8	448
25	Size and composition of membrane protein clusters predicted by Monte Carlo analysis. <i>European Biophysics Journal</i> , 2004, 33, 506-512.	1.2	25
26	Using Rotational Averaging To Calculate the Bulk Response of Isotropic and Anisotropic Samples from Molecular Parameters. <i>Journal of Chemical Education</i> , 2004, 81, 877.	1.1	48
27	Intervalence Band Stark Effect of the Special Pair Radical Cation in Bacterial Photosynthetic Reaction Centers. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11230-11239.	1.2	23
28	Concordant estimates of oceanic carbon monoxide source and sink processes in the Pacific yield a balanced global "blue-water" CO budget. <i>Global Biogeochemical Cycles</i> , 2003, 17, .	1.9	108
29	Vibrational Stark Effects of Nitriles II. Physical Origins of Stark Effects from Experiment and Perturbation Models. <i>Journal of Physical Chemistry A</i> , 2002, 106, 469-477.	1.1	142
30	Validated methods for sampling and headspace analysis of carbon monoxide in seawater. <i>Marine Chemistry</i> , 2002, 77, 93-108.	0.9	53
31	Photochemical oxygen consumption in marine waters: A major sink for colored dissolved organic matter?. <i>Limnology and Oceanography</i> , 2000, 45, 267-277.	1.6	111
32	A liquid nitrogen immersion cryostat for optical measurements. <i>Review of Scientific Instruments</i> , 2000, 71, 3567-3569.	0.6	46
33	Vibrational Stark Effects of Nitriles I. Methods and Experimental Results. <i>Journal of Physical Chemistry A</i> , 2000, 104, 11853-11863.	1.1	243
34	Vibrational Stark Spectroscopy in Proteins: A Probe and Calibration for Electrostatic Fields. <i>Journal of Physical Chemistry B</i> , 1999, 103, 9813-9817.	1.2	209
35	Photoproduction of carbonyl sulfide in South Pacific Ocean waters as a function of irradiation wavelength. <i>Geophysical Research Letters</i> , 1995, 22, 215-218.	1.5	54