

# James C Schaff

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8754111/publications.pdf>

Version: 2024-02-01

15  
papers

1,454  
citations

623734

14  
h-index

996975

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

2193  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Virtual Cell: a software environment for computational cell biology. Trends in Biotechnology, 2001, 19, 401-406.	9.3	346
2	Quantitative cell biology with the Virtual Cell. Trends in Cell Biology, 2003, 13, 570-576.	7.9	261
3	<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
4	Computational Cell Biology: Spatiotemporal Simulation of Cellular Events. Annual Review of Biophysics and Biomolecular Structure, 2002, 31, 423-441.	18.3	118
5	The Systems Biology Markup Language (SBML): Language Specification for Level 3 Version 1 Core. Journal of Integrative Bioinformatics, 2015, 12, 266.	1.5	102
6	Diffusion on a curved surface coupled to diffusion in the volume: Application to cell biology. Journal of Computational Physics, 2007, 226, 1271-1290.	3.8	79
7	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
8	Virtual Cell: computational tools for modeling in cell biology. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2012, 4, 129-140.	6.6	70
9	Analysis of nonlinear dynamics on arbitrary geometries with the Virtual Cell. Chaos, 2001, 11, 115.	2.5	41
10	Numerical Approach to Fast Reactions in Reaction-Diffusion Systems: Application to Buffered Calcium Waves in Bistable Models. Journal of Computational Physics, 2000, 162, 186-218.	3.8	40
11	WormGUIDES: an interactive single cell developmental atlas and tool for collaborative multidimensional data exploration. BMC Bioinformatics, 2015, 16, 189.	2.6	40
12	Compartmental and Spatial Rule-Based Modeling with Virtual Cell. Biophysical Journal, 2017, 113, 1365-1372.	0.5	37
13	Rule-based modeling with Virtual Cell. Bioinformatics, 2016, 32, 2880-2882.	4.1	27
14	Numerical Approach to Spatial Deterministic-Stochastic Models Arising in Cell Biology. PLoS Computational Biology, 2016, 12, e1005236.	3.2	26
15	BioSimulators: a central registry of simulation engines and services for recommending specific tools. Nucleic Acids Research, 2022, 50, W108-W114.	14.5	11