

Sergei V Krivov

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.

21
papers

830
citations

12
h-index

23
g-index

23
ext. papers

900
ext. citations

5.6
avg, IF

4.82
L-index

#	Paper	IF	Citations
21	Hidden complexity of free energy surfaces for peptide (protein) folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 14766-70	11.5	328
20	Diffusive reaction dynamics on invariant free energy profiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13841-6	11.5	102
19	One-dimensional barrier-preserving free-energy projections of a beta-sheet miniprotein: new insights into the folding process. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 8701-14	3.4	75
18	The free energy landscape analysis of protein (FIP35) folding dynamics. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12315-24	3.4	48
17	On Reaction Coordinate Optimality. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 135-46	6.4	43
16	Is protein folding sub-diffusive?. <i>PLoS Computational Biology</i> , 2010 , 6, e1000921	5	41
15	Potential energy surfaces and conformational transitions in biomolecules: a successive confinement approach applied to a solvated tetrapeptide. <i>Physical Review Letters</i> , 2002 , 88, 038101	7.4	31
14	Numerical construction of the p(fold) (committor) reaction coordinate for a Markov process. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 11382-8	3.4	27
13	Optimal reaction coordinates. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2016 , 6, 748-763	7.9	21
12	Nonparametric variational optimization of reaction coordinates. <i>Journal of Chemical Physics</i> , 2015 , 143, 184108	3.9	18
11	Exploratory search during directed navigation in and larva. <i>ELife</i> , 2017 , 6,	8.9	16
10	High-Resolution Free-Energy Landscape Analysis of β -Helical Protein Folding: HP35 and Its Double Mutant. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 5257-5266	6.4	13
9	Protein Folding Free Energy Landscape along the Committor - the Optimal Folding Coordinate. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 3418-3427	6.4	12
8	Robust Estimation of Diffusion-Optimized Ensembles for Enhanced Sampling. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 543-53	6.4	11
7	Optimal dimensionality reduction of complex dynamics: the chess game as diffusion on a free-energy landscape. <i>Physical Review E</i> , 2011 , 84, 011135	2.4	11
6	Fep1d: a script for the analysis of reaction coordinates. <i>Journal of Computational Chemistry</i> , 2015 , 36, 878-82	3.5	8
5	Optimal reaction coordinate as a biomarker for the dynamics of recovery from kidney transplant. <i>PLoS Computational Biology</i> , 2014 , 10, e1003685	5	8

- 4 Method to describe stochastic dynamics using an optimal coordinate. *Physical Review E*, **2013**, 88, 062131.4 6
- 3 High-resolution free energy landscape analysis of protein folding. *Biochemical Society Transactions*, **2015**, 43, 157-61 5.1 4
- 2 Blind Analysis of Molecular Dynamics. *Journal of Chemical Theory and Computation*, **2021**, 17, 2725-2736 6.4 4
- 1 Nonparametric Analysis of Nonequilibrium Simulations. *Journal of Chemical Theory and Computation*, **2021**, 17, 5466-5481 6.4 3