

Peter Kasson

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.

71
papers

6,500
citations

24
h-index

80
g-index

89
ext. papers

7,656
ext. citations

6.7
avg, IF

5.87
L-index

#	Paper	IF	Citations
71	GROMACS 4.5: a high-throughput and highly parallel open source molecular simulation toolkit. <i>Bioinformatics</i> , 2013 , 29, 845-54	7.2	4786
70	Heterogeneity even at the speed limit of folding: large-scale molecular dynamics study of a fast-folding variant of the villin headpiece. <i>Journal of Molecular Biology</i> , 2007 , 374, 806-16	6.5	154
69	Ensemble molecular dynamics yields submillisecond kinetics and intermediates of membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11916-21	11.5	124
68	Formation of a highly peptide-receptive state of class II MHC. <i>Immunity</i> , 1998 , 9, 699-709	32.3	122
67	Atomic-resolution simulations predict a transition state for vesicle fusion defined by contact of a few lipid tails. <i>PLoS Computational Biology</i> , 2010 , 6, e1000829	5	94
66	Control of membrane fusion mechanism by lipid composition: predictions from ensemble molecular dynamics. <i>PLoS Computational Biology</i> , 2007 , 3, e220	5	91
65	Understanding Activation and Inhibition of SARS-CoV-2 Viral Entry with Single-Virus Microscopy. <i>Biophysical Journal</i> , 2021 , 120, 321a	2.9	78
64	Lipid tail protrusion in simulations predicts fusogenic activity of influenza fusion peptide mutants and conformational models. <i>PLoS Computational Biology</i> , 2013 , 9, e1002950	5	64
63	Viral factors in influenza pandemic risk assessment. <i>ELife</i> , 2016 , 5,	8.9	61
62	Dynamic heterogeneity controls diffusion and viscosity near biological interfaces. <i>Nature Communications</i> , 2014 , 5, 3034	17.4	48
61	Kinetics of peptide binding to the class II MHC protein I-Ek. <i>Biochemistry</i> , 2000 , 39, 1048-58	3.2	47
60	Improving pandemic influenza risk assessment. <i>ELife</i> , 2014 , 3, e03883	8.9	45
59	Persistent voids: a new structural metric for membrane fusion. <i>Bioinformatics</i> , 2007 , 23, 1753-9	7.2	44
58	Managing Coronavirus Disease 2019 Spread With Voluntary Public Health Measures: Sweden as a Case Study for Pandemic Control. <i>Clinical Infectious Diseases</i> , 2020 , 71, 3174-3181	11.6	43
57	Water ordering at membrane interfaces controls fusion dynamics. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3812-5	16.4	41
56	Structure of the Neisserial outer membrane protein Opa loop flexibility essential to receptor recognition and bacterial engulfment. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9938-46	16.4	37
55	Ebolavirus entry requires a compact hydrophobic fist at the tip of the fusion loop. <i>Journal of Virology</i> , 2014 , 88, 6636-49	6.6	33

54	SARS-CoV-2 receptor networks in diabetic and COVID-19-associated kidney disease. <i>Kidney International</i> , 2020 , 98, 1502-1518	9.9	33
53	Model for a novel membrane envelope in a filamentous hyperthermophilic virus. <i>ELife</i> , 2017 , 6,	8.9	32
52	Molecular simulation workflows as parallel algorithms: the execution engine of Copernicus, a distributed high-performance computing platform. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2600-8	6.4	31
51	Multiphasic effects of cholesterol on influenza fusion kinetics reflect multiple mechanistic roles. <i>Biophysical Journal</i> , 2013 , 105, 1383-7	2.9	30
50	Cholesterol enhances influenza binding avidity by controlling nanoscale receptor clustering. <i>Chemical Science</i> , 2018 , 9, 2340-2347	9.4	29
49	Combining molecular dynamics with bayesian analysis to predict and evaluate ligand-binding mutations in influenza hemagglutinin. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11338-40	16.4	26
48	Molecular dynamics simulation of lipid reorientation at bilayer edges. <i>Biophysical Journal</i> , 2004 , 86, 3744-9	4.9	24
47	Disentangling Viral Membrane Fusion from Receptor Binding Using Synthetic DNA-Lipid Conjugates. <i>Biophysical Journal</i> , 2016 , 111, 123-31	2.9	23
46	Predicting allosteric mutants that increase activity of a major antibiotic resistance enzyme. <i>Chemical Science</i> , 2017 , 8, 6484-6492	9.4	21
45	Structural basis for influence of viral glycans on ligand binding by influenza hemagglutinin. <i>Biophysical Journal</i> , 2008 , 95, L48-50	2.9	20
44	Influenza viral membrane fusion is sensitive to sterol concentration but surprisingly robust to sterol chemical identity. <i>Scientific Reports</i> , 2016 , 6, 29842	4.9	19
43	Copernicus 2011 ,		19
42	pH Dependence of Zika Membrane Fusion Kinetics Reveals an Off-Pathway State. <i>ACS Central Science</i> , 2018 , 4, 1503-1510	16.8	19
41	Hemagglutinin Spatial Distribution Shifts in Response to Cholesterol in the Influenza Viral Envelope. <i>Biophysical Journal</i> , 2015 , 109, 1917-24	2.9	18
40	Structural conservation in a membrane-enveloped filamentous virus infecting a hyperthermophilic acidophile. <i>Nature Communications</i> , 2018 , 9, 3360	17.4	18
39	Influenza hemagglutinin drives viral entry via two sequential intramembrane mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7200-7207	11.5	17
38	Antibiotic Uptake Across Gram-Negative Outer Membranes: Better Predictions Towards Better Antibiotics. <i>ACS Infectious Diseases</i> , 2019 , 5, 2096-2104	5.5	15
37	Intervention strategies against COVID-19 and their estimated impact on Swedish healthcare capacity		15

36	Adaptive ensemble simulations of biomolecules. <i>Current Opinion in Structural Biology</i> , 2018 , 52, 87-94	8.1	14
35	Conformational Intermediate That Controls KPC-2 Catalysis and Beta-Lactam Drug Resistance. <i>ACS Catalysis</i> , 2018 , 8, 2741-2747	13.1	13
34	Detecting and Controlling Dye Effects in Single-Virus Fusion Experiments. <i>Biophysical Journal</i> , 2019 , 117, 445-452	2.9	12
33	Coupled diffusion in lipid bilayers upon close approach. <i>Journal of the American Chemical Society</i> , 2015 , 137, 708-14	16.4	12
32	Excess positional mutual information predicts both local and allosteric mutations affecting beta lactamase drug resistance. <i>Bioinformatics</i> , 2016 , 32, 3420-3427	7.2	11
31	Probing microscopic material properties inside simulated membranes through spatially resolved three-dimensional local pressure fields and surface tensions. <i>Chemistry and Physics of Lipids</i> , 2013 , 169, 106-12	3.7	10
30	A hybrid machine-learning approach for segmentation of protein localization data. <i>Bioinformatics</i> , 2005 , 21, 3778-86	7.2	10
29	Influenza Hemifusion Phenotype Depends on Membrane Context: Differences in Cell-Cell and Virus-Cell Fusion. <i>Journal of Molecular Biology</i> , 2018 , 430, 594-601	6.5	9
28	Long Time-Scale Atomistic Simulations of the Structure and Dynamics of Transcription Factor-DNA Recognition. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3576-3590	3.4	7
27	Receptor binding by influenza virus: using computational techniques to extend structural data. <i>Biochemistry</i> , 2012 , 51, 2359-65	3.2	6
26	Quantitative imaging of lymphocyte membrane protein reorganization and signaling. <i>Biophysical Journal</i> , 2005 , 88, 579-89	2.9	6
25	Predicting allostery and microbial drug resistance with molecular simulations. <i>Current Opinion in Structural Biology</i> , 2018 , 52, 80-86	8.1	6
24	gmxapi: a high-level interface for advanced control and extension of molecular dynamics simulations. <i>Bioinformatics</i> , 2018 , 34, 3945-3947	7.2	6
23	Hybrid Refinement of Heterogeneous Conformational Ensembles Using Spectroscopic Data. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3410-3414	6.4	5
22	Lipid converter, a framework for lipid manipulations in molecular dynamics simulations. <i>Journal of Membrane Biology</i> , 2014 , 247, 1137-40	2.3	5
21	Acquired Functional Capsid Structures in Metazoan Totivirus-like dsRNA Virus. <i>Structure</i> , 2020 , 28, 888-896.e3	9.6	4
20	A bundling of viral fusion mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3827-8	11.5	4
19	Combining mutual information with structural analysis to screen for functionally important residues in influenza hemagglutinin. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2009 , 492-503	1.3	4

18	Infectious Disease Research in the Era of Big Data. <i>Annual Review of Biomedical Data Science</i> , 2020 , 3, 43-59	5.6	4
17	Predicting structure and dynamics of loosely-ordered protein complexes: influenza hemagglutinin fusion peptide. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2007 , 40-50	1.3	4
16	Bilayer-Coated Nanoparticles Reveal How Influenza Viral Entry Depends on Membrane Deformability but Not Curvature. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7190-7196	6.4	3
15	Refinement of Highly Flexible Protein Structures using Simulation-Guided Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 17110-17114	16.4	3
14	Adaptive Ensemble Biomolecular Applications at Scale. <i>SN Computer Science</i> , 2020 , 1, 1	2	2
13	Development of COVID-19 vaccine using a dual Toll-like receptor ligand liposome adjuvant. <i>Npj Vaccines</i> , 2021 , 6, 137	9.5	2
12	Influenza hemagglutinin drives viral entry via two sequential intramembrane mechanisms		2
11	Author response: Improving pandemic influenza risk assessment 2014 ,		2
10	Inference of Joint Conformational Distributions from Separately Acquired Experimental Measurements. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1606-1611	6.4	2
9	Control of membrane fusion mechanism by lipid composition: predictions from ensemble molecular dynamics. <i>PLoS Computational Biology</i> , 2005 , preprint, e220	5	1
8	Precise triggering and chemical control of single-virus fusion within endosomes		1
7	Single-virus fusion measurements yield an opportunistic model for SARS-CoV-2 fusion		1
6	The N-terminal Helix-Turn-Helix Motif of Transcription Factors MarA and Rob Drives DNA Recognition. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 6791-6806	3.4	1
5	"Cross-graining": efficient multi-scale simulation via Markov state models. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2010 , 260-8	1.3	1
4	Refinement of Highly Flexible Protein Structures using Simulation-Guided Spectroscopy. <i>Angewandte Chemie</i> , 2018 , 130, 17356-17360	3.6	0
3	Deformable modeling for improved calculation of molecular velocities from single-particle tracking 2005 , 208-11		
2	Modeling biomolecular kinetics with large-scale simulation. <i>Current Opinion in Structural Biology</i> , 2021 , 72, 95-102	8.1	
1	gmxapi: A GROMACS-native Python interface for molecular dynamics with ensemble and plugin support.. <i>PLoS Computational Biology</i> , 2022 , 18, e1009835	5	

