Peter Kasson

List of Publications by Year in Descending Order

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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.

6,500 80 71 24 h-index g-index citations papers 7,656 6.7 89 5.87 avg, IF L-index ext. citations ext. papers

| # | Paper | IF | Citations |
|----|--|-------------------|-----------|
| 71 | gmxapi: A GROMACS-native Python interface for molecular dynamics with ensemble and plugin support <i>PLoS Computational Biology</i> , 2022 , 18, e1009835 | 5 | |
| 70 | Development of COVID-19 vaccine using a dual Toll-like receptor ligand liposome adjuvant. <i>Npj Vaccines</i> , 2021 , 6, 137 | 9.5 | 2 |
| 69 | 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 |
| 68 | Inference of Joint Conformational Distributions from Separately Acquired Experimental Measurements. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1606-1611 | 6.4 | 2 |
| 67 | Understanding Activation and Inhibition of SARS-CoV-2 Viral Entry with Single-Virus Microscopy. <i>Biophysical Journal</i> , 2021 , 120, 321a | 2.9 | 78 |
| 66 | Modeling biomolecular kinetics with large-scale simulation. <i>Current Opinion in Structural Biology</i> , 2021 , 72, 95-102 | 8.1 | |
| 65 | Influenza hemagglutinin drives viral entry via two sequential intramembrane mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7200-7207 | 11.5 | 17 |
| 64 | 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 |
| 63 | Acquired Functional Capsid Structures in Metazoan Totivirus-like dsRNA Virus. <i>Structure</i> , 2020 , 28, 888 | -8 <u>9.6</u> .e3 | B 4 |
| 62 | Adaptive Ensemble Biomolecular Applications at Scale. SN Computer Science, 2020, 1, 1 | 2 | 2 |
| 61 | SARS-CoV-2 receptor networks in diabetic and COVID-19-associated kidney disease. <i>Kidney International</i> , 2020 , 98, 1502-1518 | 9.9 | 33 |
| 60 | 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 |
| 59 | Infectious Disease Research in the Era of Big Data. <i>Annual Review of Biomedical Data Science</i> , 2020 , 3, 43-59 | 5.6 | 4 |
| 58 | Hybrid Refinement of Heterogeneous Conformational Ensembles Using Spectroscopic Data. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3410-3414 | 6.4 | 5 |
| 57 | 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 |
| 56 | Detecting and Controlling Dye Effects in Single-Virus Fusion Experiments. <i>Biophysical Journal</i> , 2019 , 117, 445-452 | 2.9 | 12 |
| 55 | Antibiotic Uptake Across Gram-Negative Outer Membranes: Better Predictions Towards Better Antibiotics. <i>ACS Infectious Diseases</i> , 2019 , 5, 2096-2104 | 5.5 | 15 |

(2015-2018)

| 54 | Conformational Intermediate That Controls KPC-2 Catalysis and Beta-Lactam Drug Resistance. <i>ACS Catalysis</i> , 2018 , 8, 2741-2747 | 13.1 | 13 | |
|----|--|------|----|---|
| 53 | 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 | |
| 52 | Cholesterol enhances influenza binding avidity by controlling nanoscale receptor clustering. <i>Chemical Science</i> , 2018 , 9, 2340-2347 | 9.4 | 29 | • |
| 51 | Structural conservation in a membrane-enveloped filamentous virus infecting a hyperthermophilic acidophile. <i>Nature Communications</i> , 2018 , 9, 3360 | 17.4 | 18 | |
| 50 | Refinement of Highly Flexible Protein Structures using Simulation-Guided Spectroscopy. <i>Angewandte Chemie</i> , 2018 , 130, 17356-17360 | 3.6 | 0 | |
| 49 | Refinement of Highly Flexible Protein Structures using Simulation-Guided Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 17110-17114 | 16.4 | 3 | |
| 48 | Predicting allostery and microbial drug resistance with molecular simulations. <i>Current Opinion in Structural Biology</i> , 2018 , 52, 80-86 | 8.1 | 6 | |
| 47 | Adaptive ensemble simulations of biomolecules. <i>Current Opinion in Structural Biology</i> , 2018 , 52, 87-94 | 8.1 | 14 | |
| 46 | pH Dependence of Zika Membrane Fusion Kinetics Reveals an Off-Pathway State. <i>ACS Central Science</i> , 2018 , 4, 1503-1510 | 16.8 | 19 | |
| 45 | gmxapi: a high-level interface for advanced control and extension of molecular dynamics simulations. <i>Bioinformatics</i> , 2018 , 34, 3945-3947 | 7.2 | 6 | |
| 44 | Predicting allosteric mutants that increase activity of a major antibiotic resistance enzyme. <i>Chemical Science</i> , 2017 , 8, 6484-6492 | 9.4 | 21 | |
| 43 | Model for a novel membrane envelope in a filamentous hyperthermophilic virus. ELife, 2017, 6, | 8.9 | 32 | |
| 42 | Disentangling Viral Membrane Fusion from Receptor Binding Using Synthetic DNA-Lipid Conjugates. <i>Biophysical Journal</i> , 2016 , 111, 123-31 | 2.9 | 23 | |
| 41 | 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 | |
| 40 | Viral factors in influenza pandemic risk assessment. <i>ELife</i> , 2016 , 5, | 8.9 | 61 | |
| 39 | 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 | |
| 38 | 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 | |
| 37 | Hemagglutinin Spatial Distribution Shifts in Response to Cholesterol in the Influenza Viral Envelope. <i>Biophysical Journal</i> , 2015 , 109, 1917-24 | 2.9 | 18 | |

| 36 | Coupled diffusion in lipid bilayers upon close approach. <i>Journal of the American Chemical Society</i> , 2015 , 137, 708-14 | 16.4 | 12 |
|----|--|------|---|
| 35 | Dynamic heterogeneity controls diffusion and viscosity near biological interfaces. <i>Nature Communications</i> , 2014 , 5, 3034 | 17.4 | 48 |
| 34 | Structure of the Neisserial outer membrane protein OpaEloop flexibility essential to receptor recognition and bacterial engulfment. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9938-46 | 16.4 | 37 |
| 33 | 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 |
| 32 | Improving pandemic influenza risk assessment. <i>ELife</i> , 2014 , 3, e03883 | 8.9 | 45 |
| 31 | Lipid converter, a framework for lipid manipulations in molecular dynamics simulations. <i>Journal of Membrane Biology</i> , 2014 , 247, 1137-40 | 2.3 | 5 |
| 30 | Author response: Improving pandemic influenza risk assessment 2014, | | 2 |
| 29 | 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 |
| 28 | Multiphasic effects of cholesterol on influenza fusion kinetics reflect multiple mechanistic roles. Biophysical Journal, 2013 , 105, 1383-7 | 2.9 | 30 |
| 27 | GROMACS 4.5: a high-throughput and highly parallel open source molecular simulation toolkit. <i>Bioinformatics</i> , 2013 , 29, 845-54 | 7.2 | 4786 |
| 26 | 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 |
| 25 | Receptor binding by influenza virus: using computational techniques to extend structural data. <i>Biochemistry</i> , 2012 , 51, 2359-65 | 3.2 | 6 |
| 24 | Water ordering at membrane interfaces controls fusion dynamics. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3812-5 | 16.4 | 41 |
| 23 | A bundling of viral fusion mechanisms. <i>Proceedings of the National Academy of Sciences of the</i> | | |
| | United States of America, 2011 , 108, 3827-8 | 11.5 | 4 |
| 22 | | 11.5 | 19 |
| 22 | United States of America, 2011 , 108, 3827-8 | 11.5 | 41994 |
| | United States of America, 2011, 108, 3827-8 Copernicus 2011, Atomic-resolution simulations predict a transition state for vesicle fusion defined by contact of a | | |

| 18 | 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 |
|----|--|--------------|-----|
| 17 | Structural basis for influence of viral glycans on ligand binding by influenza hemagglutinin. <i>Biophysical Journal</i> , 2008 , 95, L48-50 | 2.9 | 20 |
| 16 | Control of membrane fusion mechanism by lipid composition: predictions from ensemble molecular dynamics. <i>PLoS Computational Biology</i> , 2007 , 3, e220 | 5 | 91 |
| 15 | Persistent voids: a new structural metric for membrane fusion. <i>Bioinformatics</i> , 2007 , 23, 1753-9 | 7.2 | 44 |
| 14 | 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 |
| 13 | 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 |
| 12 | 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, 11910 | 6-215 | 124 |
| 11 | A hybrid machine-learning approach for segmentation of protein localization data. <i>Bioinformatics</i> , 2005 , 21, 3778-86 | 7.2 | 10 |
| 10 | Quantitative imaging of lymphocyte membrane protein reorganization and signaling. <i>Biophysical Journal</i> , 2005 , 88, 579-89 | 2.9 | 6 |
| 9 | Deformable modeling for improved calculation of molecular velocities from single-particle tracking 2005 , 208-11 | | |
| 8 | Control of membrane fusion mechanism by lipid composition: predictions from ensemble molecular dynamics. <i>PLoS Computational Biology</i> , 2005 , preprint, e220 | 5 | 1 |
| 7 | Molecular dynamics simulation of lipid reorientation at bilayer edges. <i>Biophysical Journal</i> , 2004 , 86, 374 | 429) | 24 |
| 6 | Kinetics of peptide binding to the class II MHC protein I-Ek. <i>Biochemistry</i> , 2000 , 39, 1048-58 | 3.2 | 47 |
| 5 | Formation of a highly peptide-receptive state of class II MHC. <i>Immunity</i> , 1998 , 9, 699-709 | 32.3 | 122 |
| 4 | Influenza hemagglutinin drives viral entry via two sequential intramembrane mechanisms | | 2 |
| 3 | Intervention strategies against COVID-19 and their estimated impact on Swedish healthcare capacity | | 15 |
| 2 | Precise triggering and chemical control of single-virus fusion within endosomes | | 1 |
| 1 | Single-virus fusion measurements yield an opportunistic model for SARS-CoV-2 fusion | | 1 |