Carsten Kutzner

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.

17 papers	13,272 citations	15 h-index	18 g-index
18 ext. papers	14,988 ext. citations	5.3 avg, IF	6.5 L-index

#	Paper	IF	Citations
17	A CUDA fast multipole method with highly efficient M2L far field evaluation. *International Journal of High Performance Computing Applications*, **2021**, 35, 97-117	1.8	1
16	GROMEX: A Scalable and Versatile Fast Multipole Method for Biomolecular Simulation. *Lecture Notes in Computational Science and Engineering*, **2020**, 517-543	0.3	2
15	A GPU-Accelerated Fast Multipole Method for GROMACS: Performance and Accuracy. *Journal of Chemical Theory and Computation*, **2020**, 16, 6938-6949	6.4	21
14	More bang for your buck: Improved use of GPU nodes for GROMACS 2018. *Journal of Computational Chemistry*, **2019**, 40, 2418-2431	3.5	122
13	Automated cryo-EM structure refinement using correlation-driven molecular dynamics. *ELife*, **2019**, 8,	8.9	38
12	GROmaS: A GROMACS-Based Toolset to Analyze Density Maps Derived from Molecular Dynamics Simulations. *Biophysical Journal*, **2019**, 116, 4-11	2.9	33
11	Insights into the function of ion channels by computational electrophysiology simulations. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 1741-52	3.8	43
10	Best bang for your buck: GPU nodes for GROMACS biomolecular simulations. *Journal of Computational Chemistry*, **2015**, 36, 1990-2008	3.5	130
9	Tackling Exascale Software Challenges in Molecular Dynamics Simulations with GROMACS. *Lecture Notes in Computer Science*, **2015**, 3-27	0.9	329
8	Molecular dynamics in principal component space. *Journal of Physical Chemistry B*, **2012**, 116, 8350-4	3.4	17
7	Computational electrophysiology: the molecular dynamics of ion channel permeation and selectivity in atomistic detail. *Biophysical Journal*, **2011**, 101, 809-17	2.9	158
6	Keep It Flexible: Driving Macromolecular Rotary Motions in Atomistic Simulations with GROMACS. *Journal of Chemical Theory and Computation*, **2011**, 7, 1381-1393	6.4	33
5	Caught in the act: visualization of SNARE-mediated fusion events in molecular detail. *ChemBioChem* , **2011**, 12, 1049-55	3.8	109
4	GROMACS 4: Algorithms for Highly Efficient, Load-Balanced, and Scalable Molecular Simulation. *Journal of Chemical Theory and Computation*, **2008**, 4, 435-47	6.4	11706
3	Speeding up parallel GROMACS on high-latency networks. *Journal of Computational Chemistry*, **2007**, 28, 2075-84	3.5	98
2	Anatomy and dynamics of a supramolecular membrane protein cluster. *Science*, **2007**, 317, 1072-6	33.3	360
1	effects of driving mechanisms in geodynamo models. *Geophysical Research Letters*, **2000**, 27, 29-32	4.9	71