

Christoph Junghans

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,753
citations

304602

22
h-index

360920

35
g-index

40
all docs

40
docs citations

40
times ranked

1387
citing authors

#	ARTICLE	IF	CITATIONS
1	Versatile Object-Oriented Toolkit for Coarse-Graining Applications. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 3211-3223.	2.3	390
2	Comparative atomistic and coarse-grained study of water: What do we lose by coarse-graining?. <i>European Physical Journal E</i> , 2009, 28, 221-229.	0.7	231
3	Adaptive resolution molecular dynamics simulation through coupling to an internal particle reservoir. <i>Physical Review Letters</i> , 2012, 108, 170602.	2.9	126
4	Transport properties controlled by a thermostat: An extended dissipative particle dynamics thermostat. <i>Soft Matter</i> , 2008, 4, 156-161.	1.2	113
5	Microcanonical Analyses of Peptide Aggregation Processes. <i>Physical Review Letters</i> , 2006, 97, 218103.	2.9	101
6	Kirkwood's "Buff Coarse-Grained Force Fields for Aqueous Solutions. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1802-1807.	2.3	62
7	Communication: On the locality of Hydrogen bond networks at hydrophobic interfaces. <i>Journal of Chemical Physics</i> , 2010, 133, 221101.	1.2	55
8	Relative Entropy and Optimization-Driven Coarse-Graining Methods in VOTCA. <i>PLoS ONE</i> , 2015, 10, e0131754.	1.1	55
9	Structure Formation of Toluene around C60: Implementation of the Adaptive Resolution Scheme (AdResS) into GROMACS. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 398-403.	2.3	52
10	Thermodynamics of peptide aggregation processes: An analysis from perspectives of three statistical ensembles. <i>Journal of Chemical Physics</i> , 2008, 128, 085103.	1.2	50
11	Hybrid Approaches to Coarse-Graining using the VOTCA Package: Liquid Hexane. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 472-477.	0.6	44
12	Statistical mechanics of aggregation and crystallization for semiflexible polymers. <i>Europhysics Letters</i> , 2009, 87, 40002.	0.7	38
13	Molecular Dynamics in the Multicanonical Ensemble: Equivalence of Wang's "Landau Sampling, Statistical Temperature Molecular Dynamics, and Metadynamics. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1843-1847.	2.3	38
14	Adaptive resolution molecular dynamics technique: Down to the essential. <i>Journal of Chemical Physics</i> , 2018, 149, 024104.	1.2	30
15	ESPreSo++ 2.0: Advanced methods for multiscale molecular simulation. <i>Computer Physics Communications</i> , 2019, 238, 66-76.	3.0	30
16	Electronic Excitations in Complex Molecular Environments: Many-Body Green's Functions Theory in VOTCA-XTP. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 6253-6268.	2.3	28
17	Simulation approaches to soft matter: Generic statistical properties vs. chemical details. <i>Computer Physics Communications</i> , 2008, 179, 51-60.	3.0	24
18	Adaptive resolution simulation of salt solutions. <i>New Journal of Physics</i> , 2013, 15, 105007.	1.2	24

#	ARTICLE	IF	CITATIONS
19	Câ€“IBI: Targeting cumulative coordination within an iterative protocol to derive coarse-grained models of (multi-component) complex fluids. <i>Journal of Chemical Physics</i> , 2016, 144, 174106.	1.2	24
20	Modeling and scale-bridging using machine learning: nanoconfinement effects in porous media. <i>Scientific Reports</i> , 2020, 10, 13312.	1.6	24
21	Spatial adaptive sampling in multiscale simulation. <i>Computer Physics Communications</i> , 2014, 185, 1857-1864.	3.0	23
22	Distributed Database Kriging for Adaptive Sampling (D2KAS). <i>Computer Physics Communications</i> , 2015, 192, 138-147.	3.0	23
23	Excited-state electronic structure of molecules using many-body Greenâ€™s functions: Quasiparticles and electronâ€™hole excitations with VOTCA-XTP. <i>Journal of Chemical Physics</i> , 2020, 152, 114103.	1.2	20
24	A reference implementation of the adaptive resolution scheme in ESPResSo. <i>Computer Physics Communications</i> , 2010, 181, 1449-1454.	3.0	19
25	Multiscale Simulation of Liquid Water Using a Four-to-One Mapping for Coarse-Graining. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5168-5175.	2.3	19
26	Enabling particle applications for exascale computing platforms. <i>International Journal of High Performance Computing Applications</i> , 2021, 35, 572-597.	2.4	15
27	Hierarchies in nucleation transitions. <i>Computer Physics Communications</i> , 2011, 182, 1937-1940.	3.0	12
28	TADSim. <i>ACM Transactions on Modeling and Computer Simulation</i> , 2015, 25, 1-26.	0.6	12
29	NUMERICAL COMPARISON OF WANGâ€™S LANDAU SAMPLING AND PARALLEL TEMPERING FOR MET-ENKEPHALIN. <i>International Journal of Modern Physics C</i> , 2006, 17, 817-824.	0.8	11
30	STOCK: Structure mapper and online coarse-graining kit for molecular simulations. <i>Journal of Computational Chemistry</i> , 2015, 36, 467-477.	1.5	11
31	Multiscale simulation of plasma flows using active learning. <i>Physical Review E</i> , 2020, 102, 023310.	0.8	11
32	Scalable and fast heterogeneous molecular simulation with predictive parallelization schemes. <i>Physical Review E</i> , 2017, 96, 053311.	0.8	9
33	Asynchronous distributed-memory task-parallel algorithm for compressible flows on unstructured 3D Eulerian grids. <i>Advances in Engineering Software</i> , 2021, 160, 102962.	1.8	7
34	Cabana: A Performance Portable Library for Particle-Based Simulations. <i>Journal of Open Source Software</i> , 2022, 7, 4115.	2.0	7
35	Database assisted distribution to improve fault tolerance for multiphysics applications. , 2015, , .		6
36	Computational efficiency and Amdahlâ€™s law for the adaptive resolution simulation technique. <i>Computer Physics Communications</i> , 2017, 215, 20-25.	3.0	5

#	ARTICLE	IF	CITATIONS
37	Accommodating Thread-Level Heterogeneity in Coupled Parallel Applications. , 2017, , .		4