

Xin Zhou

List of Publications by Year in descending order

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1,331
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687363

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times ranked

1619
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous Freezing of Water between 233 and 235 K Is Not Due to Homogeneous Nucleation. <i>Journal of the American Chemical Society</i> , 2021, 143, 13548-13556.	13.7	5
2	Ion-Specific Effects on the Growth of Single Ice Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8726-8731.	4.6	10
3	Hydrogen polarity of interfacial water regulates heterogeneous ice nucleation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 258-264.	2.8	10
4	Precise Control Over Kinetics of Molecular Assembly: Production of Particles with Tunable Sizes and Crystalline Forms. <i>Angewandte Chemie</i> , 2020, 132, 15253-15258.	2.0	2
5	Precise Control Over Kinetics of Molecular Assembly: Production of Particles with Tunable Sizes and Crystalline Forms. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15141-15146.	13.8	8
6	A novel multiscale scheme to accelerate atomistic simulations of bio-macromolecules by adaptively driving coarse-grained coordinates. <i>Journal of Chemical Physics</i> , 2020, 152, 114115.	3.0	8
7	Competing Effects between Condensation and Self-Removal of Water Droplets Determine Antifrosting Performance of Superhydrophobic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7805-7814.	8.0	52
8	Rationally designed surface microstructural features for enhanced droplet jumping and anti-frosting performance. <i>Soft Matter</i> , 2020, 16, 4462-4476.	2.7	30
9	Fast and accurate determination of phase transition temperature via individual generalized canonical ensemble simulation. <i>Chinese Physics B</i> , 2020, 29, 080505.	1.4	3
10	EspcTM: Kinetic Transition Network Based on Trajectory Mapping in Effective Energy Rescaling Space. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 589718.	3.5	0
11	Find slow dynamic modes via analyzing molecular dynamics simulation trajectories. <i>Chinese Physics B</i> , 2020, 29, 108706.	1.4	3
12	Spreading fully at the ice-water interface is required for high ice recrystallization inhibition activity. <i>Science China Chemistry</i> , 2019, 62, 909-915.	8.2	39
13	Hydroxyl Groups on the Graphene Surfaces Facilitate Ice Nucleation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2458-2462.	4.6	24
14	Modifying Surfaces with the Primary and Secondary Faces of Cyclodextrins To Achieve a Distinct Anti-icing Capability. <i>Langmuir</i> , 2019, 35, 5176-5182.	3.5	3
15	Identifying metastable states of biomolecules by trajectory mapping and density peak clustering. <i>Physical Review E</i> , 2019, 100, 033301.	2.1	3
16	Probing the critical nucleus size for ice formation with graphene oxide nanosheets. <i>Nature</i> , 2019, 576, 437-441.	27.8	268
17	Enhanced sampling based on slow variables of trajectory mapping. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	4
18	The multiple local structures in liquid water. <i>International Journal of Modern Physics B</i> , 2018, 32, 1840003.	2.0	1

#	ARTICLE	IF	CITATIONS
19	Effectively explore metastable states of proteins by adaptive nonequilibrium driving simulations. <i>Physical Review E</i> , 2017, 95, 033304.	2.1	2
20	Elasticity of the Transition State Leading to an Unexpected Mechanical Stabilization of Titin Immunoglobulin Domains. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5490-5493.	13.8	59
21	Imaging Metastable States and Transitions in Proteins by Trajectory Map. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4678-4686.	2.6	5
22	Elasticity of the Transition State Leading to an Unexpected Mechanical Stabilization of Titin Immunoglobulin Domains. <i>Angewandte Chemie</i> , 2017, 129, 5582-5585.	2.0	15
23	Smoothing potential energy surface of proteins by hybrid coarse grained approach. <i>Chinese Physics B</i> , 2017, 26, 050202.	1.4	5
24	Effect of antifreeze protein on heterogeneous ice nucleation based on a two-dimensional random-field Ising model. <i>Physical Review E</i> , 2017, 95, 052140.	2.1	6
25	Monte Carlo Simulation of the Neurofilament Brush. <i>Israel Journal of Chemistry</i> , 2016, 56, 599-606.	2.3	9
26	Jarzynski matrix equality: Calculating the free-energy difference by nonequilibrium simulations with an arbitrary initial distribution. <i>Physical Review E</i> , 2016, 93, 043312.	2.1	5
27	Equilibrium sampling by reweighting nonequilibrium simulation trajectories. <i>Physical Review E</i> , 2016, 93, 033309.	2.1	6
28	Tuning Ice Nucleation with Supercharged Polypeptides. <i>Advanced Materials</i> , 2016, 28, 5008-5012.	21.0	59
29	Influences of the Structure of Lipids on Thermal Stability of Lipid Membranes*. <i>Communications in Theoretical Physics</i> , 2015, 64, 249-258.	2.5	5
30	A Jump-from-Cavity Pyrophosphate Ion Release Assisted by a Key Lysine Residue in T7 RNA Polymerase Transcription Elongation. <i>PLoS Computational Biology</i> , 2015, 11, e1004624.	3.2	31
31	The construction of general basis functions in reweighting ensemble dynamics simulations: Reproduce equilibrium distribution in complex systems from multiple short simulation trajectories. <i>Chinese Physics B</i> , 2015, 24, 120202.	1.4	4
32	Anisotropy of Local Stress Tensor Leads to Line Tension. <i>Scientific Reports</i> , 2015, 5, 9491.	3.3	7
33	Fast adaptive flat-histogram ensemble to enhance the sampling in large systems. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015, 58, 1.	5.1	1
34	Systematically Constructing Kinetic Transition Network in Polypeptide from Top to Down: Trajectory Mapping. <i>PLoS ONE</i> , 2015, 10, e0125932.	2.5	9
35	Viscosity of interfacial water regulates ice nucleation. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	23
36	A theoretical study on entropy-driven polymer translocation through a finite-sized nanochannel. <i>Chemical Physics Letters</i> , 2013, 565, 116-121.	2.6	1

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37	Robust Prototypical Anti-icing Coatings with a Self-lubricating Liquid Water Layer between Ice and Substrate. ACS Applied Materials & Interfaces, 2013, 5, 4026-4030.	8.0	269
38	Parallel Tempering Simulation on Generalized Canonical Ensemble. Communications in Computational Physics, 2012, 12, 1293-1306.	1.7	10
39	Hierarchically structured porous aluminum surfaces for high-efficient removal of condensed water. Soft Matter, 2012, 8, 6680.	2.7	146
40	Investigating the Effects of Solid Surfaces on Ice Nucleation. Langmuir, 2012, 28, 10749-10754.	3.5	139
41	Kinetic Transition Network Based on Trajectory Mapping. Journal of Physical Chemistry B, 2010, 114, 10266-10276.	2.6	17
42	Structuring and sampling complex conformation space: Weighted ensemble dynamics simulations. Physical Review E, 2009, 80, 026707.	2.1	12
43	Hyperdynamics for entropic systems: Time-space compression and pair correlation function approximation. Physical Review E, 2006, 74, 035701.	2.1	13