Xiangjun Xing

List of Publications by Year
in descending order

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45	917	516215	454577
papers	citations	16 h-index	30 g-index

46	46	46	932
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strong coupling thermodynamics and stochastic thermodynamics from the unifying perspective of time-scale separation. Physical Review Research, 2022, 4, .	1.3	8
2	Thermodynamics of Small Systems and Time-Scale Separation. , 2022, , 291-302.		0
3	Nanoporous Vesicular Membranes of Amphiphilic Polymers Containing Trans / Cis Isomers. CCS Chemistry, 2022, 4, 2651-2661.	4.6	6
4	Alignment destabilizes crystal order in active systems. Physical Review E, 2021, 104, 064605.	0.8	1
5	Covariant formulation of nonlinear Langevin theory with multiplicative Gaussian white noises. Physical Review Research, 2020, 2, .	1.3	11
6	One-dimensional nature of protein low-energy vibrations. Physical Review Research, 2020, 2, .	1.3	7
7	Information swimmer: Self-propulsion without energy dissipation. Physical Review Research, 2020, 2, .	1.3	1
8	Depletion zones and crystallography on pinched spheres. Physical Review E, 2018, 97, 032605.	0.8	1
9	Gradual Crossover from Subdiffusion to Normal Diffusion: A Many-Body Effect in Protein Surface Water. Physical Review Letters, 2018, 120, 248101.	2.9	56
10	A GPU-based large-scale Monte Carlo simulation method for systems with long-range interactions. Journal of Computational Physics, 2017, 338, 252-268.	1.9	11
11	Charge Renormalization and Charge Oscillation in Asymmetric Primitive Model of Electrolytes. Journal of Statistical Physics, 2016, 165, 970-989.	0.5	3
12	Charged plate in asymmetric electrolytes: One-loop renormalization of surface charge density and Debye length due to ionic correlations. Physical Review E, 2016, 94, 042615.	0.8	3
13	A multi-scale Monte Carlo method for electrolytes. New Journal of Physics, 2015, 17, 083062.	1.2	7
14	Correlation potential of a test ion near a strongly charged plate. Physical Review E, 2014, 89, 032305.	0.8	7
15	Renormalized Surface Charge Density for a Strongly Charged Plate in Asymmetric Electrolytes: Exact Asymptotic Expansion in Poisson Boltzmann Theory. Journal of Statistical Physics, 2013, 151, 1121-1139.	0.5	8
16	Mellin Transform and Image Charge Method for Dielectric Sphere in an Electrolyte. SIAM Journal on Applied Mathematics, 2013, 73, 1396-1415.	0.8	8
17	Polygonal Micellar Aggregates of a Triblock Terpolymer Containing a Liquid Crystalline Block. Macromolecules, 2013, 46, 7436-7442.	2.2	38
18	Generalized Deamâ€“Edwards approach to the statistical mechanics of randomly crosslinked systems. New Journal of Physics, 2013, 15, 085017.	1.2	1

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19	STATISTICAL PHYSICS OF ISOTROPIC-GENESIS NEMATIC ELASTOMERS: I. STRUCTURE AND CORRELATIONS AT HIGH TEMPERATURES. International Journal of Modern Physics B, 2013, 27, 1330012.	1.0	6
20	Phenomenological Theory of Isotropic-Genesis Nematic Elastomers. Physical Review Letters, 2012, 108, 257803.	2.9	11
21	Effects of image charges, interfacial charge discreteness, and surface roughness on the zeta potential of spherical electric double layers. Journal of Chemical Physics, 2012, 137, 034708.	1.2	36
22	Morphology of nematic and smectic vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5202-5206.	3.3	76
23	The Poisson-Boltzmann theory for the two-plates problem: Some exact results. Interdisciplinary Sciences, Computational Life Sciences, 2011, 3, 266-271.	2.2	1
24	Biaxial deformations of rubber: A comparison between entanglement theory and elastic fluctuation theory. Physical Review E, 2011, 84, 021801.	0.8	0
25	Poisson-Boltzmann theory for two parallel uniformly charged plates. Physical Review E, 2011, 83, 041410.	0.8	19
26	Facilitated translocation of polypeptides through a single nanopore. Journal of Physics Condensed Matter, 2010, 22, 454117.	0.7	40
27	Soft random solids and their heterogeneous elasticity. Physical Review E, 2009, 80, 031140.	0.8	14
28	Topology and Geometry of Smectic Order on Compact Curved Substrates. Journal of Statistical Physics, 2009, 134, 487-536.	0.5	14
29	Smectic polymer vesicles. Soft Matter, 2009, 5, 3446.	1.2	90
30	Nonlinear elasticity, fluctuations and heterogeneity of nematic elastomers. Annals of Physics, 2008, 323, 105-203.	1.0	18
31	Topology of Smectic Order on Compact Substrates. Physical Review Letters, 2008, 101, 147801.	2.9	17
32	Nematic elastomers: From a microscopic model to macroscopic elasticity theory. Physical Review E, 2008, 77, 051802.	0.8	16
33	Topological Defects in Spherical Nematics. Physical Review Letters, 2008, 101, 037802.	2.9	129
34	Vacancy diffusion in the triangular-lattice dimer model. Physical Review E, 2008, 78, 021112.	0.8	3
35	Isotropic-cholesteric transition of a weakly chiral elastomer cylinder. Physical Review E, 2008, 78, 021709.	0.8	7
36	Thermal Fluctuations and Rubber Elasticity. Physical Review Letters, 2007, 98, 075502.	2.9	21

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37	Publisherâ€™s Note: Thermal Fluctuations and Rubber Elasticity [Phys. Rev. Lett.98, 075502 (2007)]. Physical Review Letters, 2007, 98, .	2.9	5
38	Elastic heterogeneity of soft random solids. Europhysics Letters, 2007, 80, 26004.	0.7	9
39	Phases and transitions in phantom nematic elastomer membranes. Physical Review E, 2005, 71, 011802.	0.8	7
40	Scaling of Entropic Shear Rigidity. Physical Review Letters, 2004, 93, 225701.	2.9	21
41	Fluctuating nematic elastomer membranes. Physical Review E, 2003, 68, 021108.	0.8	52
42	Universal Elasticity and Fluctuations of Nematic Gels. Physical Review Letters, 2003, 90, 168301.	2.9	25
43	Thermal fluctuations and anomalous elasticity of homogeneous nematic elastomers. Europhysics Letters, 2003, 61, 769-775.	0.7	25
44	Symmetries and elasticity of nematic gels. Physical Review E, 2002, 66, 011702.	0.8	72
45	Time-Slicing Path-integral in Curved Space. Quantum - the Open Journal for Quantum Science, 0, 6, 694.	0.0	4