Shengfeng Cheng

List of Publications by Year
in descending order

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38 papers	1,114 citations	393982 19 h-index	395343 33 g-index
41 all docs	41 docs citations	41 times ranked	1402 citing authors

#	Article	IF	Citations
1	Utilization of Block Copolymers to Understand Water Vaporization Enthalpy Reduction in Uniform Pores. Macromolecules, 2022, 55, 4803-4811.	2.2	5
2	Coarse-Grained Molecular Dynamics Modeling of a Branched Polyetherimide. Macromolecules, 2021, 54, 143-160.	2.2	5
3	Atomic Origins of Friction Reduction in Metal Alloys. Tribology Letters, 2021, 69, 1.	1.2	0
4	On the Nature of Freezing/Melting Water in Ionic Polysulfones. Macromolecules, 2021, 54, 6477-6488.	2.2	3
5	Enhancement of Mode I fracture toughness properties of epoxy reinforced with graphene nanoplatelets and carbon nanotubes. Composites Part B: Engineering, 2021, 224, 109177.	5.9	38
6	Hydration, Ion Distribution, and Ionic Network Formation in Sulfonated Poly(arylene ether sulfones). Macromolecules, 2021, 54, 302-315.	2.2	7
7	Long-range DNA-water interactions. Biophysical Journal, 2021, 120, 4966-4979.	0.2	7
8	Chain conformations and phase separation in polymer solutions with varying solvent quality. Journal of Polymer Science, 2021, 59, 2819-2831.	2.0	5
9	Potential interference with microtubule assembly by graphene: a tug-of-war. Nanoscale, 2020, 12, 4968-4974.	2.8	7
10	Determination of glass transition temperature of polyimides from atomistic molecular dynamics simulations and <scp>machineâ€learning</scp> algorithms. Journal of Polymer Science, 2020, 58, 1521-1534.	2.0	24
11	Composition Design of Block Copolymers for Porous Carbon Fibers. Chemistry of Materials, 2019, 31, 8898-8907.	3.2	31
12	Insights into Hydration Dynamics and Cooperative Interactions in Glycerolâ€“Water Mixtures by Terahertz Dielectric Spectroscopy. Journal of Physical Chemistry B, 2019, 123, 8791-8799.	1.2	28
13	Stratification of drying particle suspensions: Comparison of implicit and explicit solvent simulations. Journal of Chemical Physics, 2019, 150, 224901.	1.2	24
14	Control of Stratification in Drying Particle Suspensions via Temperature Gradients. Langmuir, 2019, 35, 4296-4304.	1.6	17
15	The meniscus on the outside of a circular cylinder: From microscopic to macroscopic scales. Journal of Colloid and Interface Science, 2019, 533, 401-408.	5.0	19
16	Capillary forces on a small particle at a liquid-vapor interface: Theory and simulation. Physical Review E, 2018, 98, .	0.8	19
17	Stratification in Drying Films Containing Bidisperse Mixtures of Nanoparticles. Langmuir, 2018, 34, 7161-7170.	1.6	44
18	High-Precision Megahertz-to-Terahertz Dielectric Spectroscopy of Protein Collective Motions and Hydration Dynamics. Journal of Physical Chemistry B, 2018, 122, 6341-6350.	1.2	58

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19	Linking microstructural evolution and macro-scale friction behavior in metals. Journal of Materials Science, 2017, 52, 2780-2799.	1.7	75
20	Ordering nanoparticles with polymer brushes. Journal of Chemical Physics, 2017, 147, 224901.	1.2	16
21	Dispersing Nanoparticles in a Polymer Film via Solvent Evaporation. ACS Macro Letters, 2016, 5, 694-698.	2.3	95
22	Nanocapillary Adhesion between Parallel Plates. Langmuir, 2016, 32, 7788-7795.	1.6	23
23	Self-assembly of chiral tubules. Soft Matter, 2014, 10, 510-518.	1.2	19
24	Directed self-assembly of 1D microtubule nano-arrays. RSC Advances, 2014, 4, 54641-54649.	1.7	13
25	Supramolecular Assembly of Asymmetric Self-Neutralizing Amphiphilic Peptide Wedges. Langmuir, 2014, 30, 9201-9209.	1.6	3
26	Capillary adhesion at the nanometer scale. Physical Review E, 2014, 89, 062402.	0.8	31
27	Molecular dynamics simulations of evaporation-induced nanoparticle assembly. Journal of Chemical Physics, 2013, 138, 064701.	1.2	54
28	Simulating the miscibility of nanoparticles and polymer melts. Soft Matter, 2013, 9, 5417.	1.2	46
29	Structure and diffusion of nanoparticle monolayers floating at liquid/vapor interfaces: A molecular dynamics study. Journal of Chemical Physics, 2012, 136, 214702.	1.2	78
30	Self-assembly of artificial microtubules. Soft Matter, 2012, 8, 5666.	1.2	25
31	Evaporation of Lennard-Jones fluids. Journal of Chemical Physics, 2011, 134, 224704.	1.2	96
32	Dynamics of a Disturbed Sessile Drop Measured by Atomic Force Microscopy (AFM). Langmuir, 2011, 27, 11966-11972.	1.6	23
33	Mechanical response of a self-avoiding membrane: Fold collisions and the birth of conical singularities. Physical Review E, 2011, 83, 036607.	0.8	8
34	Defining Contact at the Atomic Scale. Tribology Letters, 2010, 39, 329-348.	1.2	84
35	Contact and friction of nanoasperities: Effects of adsorbed monolayers. Physical Review E, 2010, 81, 016102.	0.8	62
36	Extended nature of coupled optical interface modes in Thue-Morse dielectric superlattices. European Physical Journal B, 2003, 32, 291-296.	0.6	3

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37	Trace map and eigenstates of a Thue-Morse chain in a general model. Physical Review B, 2002, 65, .	1.1	19
38	Coupled Optical Interface Modes in a Thueâ€“Morse Dielectric Superlattice. Journal of the Physical Society of Japan, 2001, 70, 2961-2967.	0.7	0