

# 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	Evaporation of Lennard-Jones fluids. <i>Journal of Chemical Physics</i> , 2011, 134, 224704.	1.2	96
2	Dispersing Nanoparticles in a Polymer Film via Solvent Evaporation. <i>ACS Macro Letters</i> , 2016, 5, 694-698.	2.3	95
3	Defining Contact at the Atomic Scale. <i>Tribology Letters</i> , 2010, 39, 329-348.	1.2	84
4	Structure and diffusion of nanoparticle monolayers floating at liquid/vapor interfaces: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2012, 136, 214702.	1.2	78
5	Linking microstructural evolution and macro-scale friction behavior in metals. <i>Journal of Materials Science</i> , 2017, 52, 2780-2799.	1.7	75
6	Contact and friction of nanoasperities: Effects of adsorbed monolayers. <i>Physical Review E</i> , 2010, 81, 016102.	0.8	62
7	High-Precision Megahertz-to-Terahertz Dielectric Spectroscopy of Protein Collective Motions and Hydration Dynamics. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6341-6350.	1.2	58
8	Molecular dynamics simulations of evaporation-induced nanoparticle assembly. <i>Journal of Chemical Physics</i> , 2013, 138, 064701.	1.2	54
9	Simulating the miscibility of nanoparticles and polymer melts. <i>Soft Matter</i> , 2013, 9, 5417.	1.2	46
10	Stratification in Drying Films Containing Bidisperse Mixtures of Nanoparticles. <i>Langmuir</i> , 2018, 34, 7161-7170.	1.6	44
11	Enhancement of Mode I fracture toughness properties of epoxy reinforced with graphene nanoplatelets and carbon nanotubes. <i>Composites Part B: Engineering</i> , 2021, 224, 109177.	5.9	38
12	Capillary adhesion at the nanometer scale. <i>Physical Review E</i> , 2014, 89, 062402.	0.8	31
13	Composition Design of Block Copolymers for Porous Carbon Fibers. <i>Chemistry of Materials</i> , 2019, 31, 8898-8907.	3.2	31
14	Insights into Hydration Dynamics and Cooperative Interactions in Glycerol-Water Mixtures by Terahertz Dielectric Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8791-8799.	1.2	28
15	Self-assembly of artificial microtubules. <i>Soft Matter</i> , 2012, 8, 5666.	1.2	25
16	Stratification of drying particle suspensions: Comparison of implicit and explicit solvent simulations. <i>Journal of Chemical Physics</i> , 2019, 150, 224901.	1.2	24
17	Determination of glass transition temperature of polyimides from atomistic molecular dynamics simulations and machine-learning algorithms. <i>Journal of Polymer Science</i> , 2020, 58, 1521-1534.	2.0	24
18	Dynamics of a Disturbed Sessile Drop Measured by Atomic Force Microscopy (AFM). <i>Langmuir</i> , 2011, 27, 11966-11972.	1.6	23

#	ARTICLE	IF	CITATIONS
19	Nanocapillary Adhesion between Parallel Plates. <i>Langmuir</i> , 2016, 32, 7788-7795.	1.6	23
20	Trace map and eigenstates of a Thue-Morse chain in a general model. <i>Physical Review B</i> , 2002, 65, .	1.1	19
21	Self-assembly of chiral tubules. <i>Soft Matter</i> , 2014, 10, 510-518.	1.2	19
22	Capillary forces on a small particle at a liquid-vapor interface: Theory and simulation. <i>Physical Review E</i> , 2018, 98, .	0.8	19
23	The meniscus on the outside of a circular cylinder: From microscopic to macroscopic scales. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 401-408.	5.0	19
24	Control of Stratification in Drying Particle Suspensions via Temperature Gradients. <i>Langmuir</i> , 2019, 35, 4296-4304.	1.6	17
25	Ordering nanoparticles with polymer brushes. <i>Journal of Chemical Physics</i> , 2017, 147, 224901.	1.2	16
26	Directed self-assembly of 1D microtubule nano-arrays. <i>RSC Advances</i> , 2014, 4, 54641-54649.	1.7	13
27	Mechanical response of a self-avoiding membrane: Fold collisions and the birth of conical singularities. <i>Physical Review E</i> , 2011, 83, 036607.	0.8	8
28	Potential interference with microtubule assembly by graphene: a tug-of-war. <i>Nanoscale</i> , 2020, 12, 4968-4974.	2.8	7
29	Hydration, Ion Distribution, and Ionic Network Formation in Sulfonated Poly(arylene ether sulfones). <i>Macromolecules</i> , 2021, 54, 302-315.	2.2	7
30	Long-range DNA-water interactions. <i>Biophysical Journal</i> , 2021, 120, 4966-4979.	0.2	7
31	Coarse-Grained Molecular Dynamics Modeling of a Branched Polyetherimide. <i>Macromolecules</i> , 2021, 54, 143-160.	2.2	5
32	Chain conformations and phase separation in polymer solutions with varying solvent quality. <i>Journal of Polymer Science</i> , 2021, 59, 2819-2831.	2.0	5
33	Utilization of Block Copolymers to Understand Water Vaporization Enthalpy Reduction in Uniform Pores. <i>Macromolecules</i> , 2022, 55, 4803-4811.	2.2	5
34	Extended nature of coupled optical interface modes in Thue-Morse dielectric superlattices. <i>European Physical Journal B</i> , 2003, 32, 291-296.	0.6	3
35	Supramolecular Assembly of Asymmetric Self-Neutralizing Amphiphilic Peptide Wedges. <i>Langmuir</i> , 2014, 30, 9201-9209.	1.6	3
36	On the Nature of Freezing/Melting Water in Ionic Polysulfones. <i>Macromolecules</i> , 2021, 54, 6477-6488.	2.2	3

#	ARTICLE	IF	CITATIONS
37	Atomic Origins of Friction Reduction in Metal Alloys. Tribology Letters, 2021, 69, 1.	1.2	0
38	Coupled Optical Interface Modes in a Thue-Morse Dielectric Superlattice. Journal of the Physical Society of Japan, 2001, 70, 2961-2967.	0.7	0