Kai Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

24 papers	508 citations	687363 13 h-index	642732 23 g-index
26 all docs	26 docs citations	26 times ranked	775 citing authors

#	Article	IF	Citations
1	Polymer-Grafted Nanoparticle Membranes with Controllable Free Volume. Macromolecules, 2017, 50, 7111-7120.	4.8	88
2	Equilibrium Phase Behavior of a Continuous-Space Microphase Former. Physical Review Letters, 2016, 116, 098301.	7.8	76
3	Magnetic Alignment of Block Copolymer Microdomains by Intrinsic Chain Anisotropy. Physical Review Letters, 2015, 115, 258302.	7.8	51
4	Effects of cooling rate on particle rearrangement statistics: Rapidly cooled glasses are more ductile and less reversible. Physical Review E, 2017, 95, 022611.	2.1	39
5	Connection between the packing efficiency of binary hard spheres and the glass-forming ability of bulk metallic glasses. Physical Review E, 2014, 90, 032311.	2.1	32
6	Coarse-grained molecular dynamics simulation of activated penetrant transport in glassy polymers. Soft Matter, 2018, 14, 440-447.	2.7	31
7	Computational studies of the glass-forming ability of model bulk metallic glasses. Journal of Chemical Physics, 2013, 139, 124503.	3.0	29
8	On the origin of multi-component bulk metallic glasses: Atomic size mismatches and de-mixing. Journal of Chemical Physics, 2015, 143, 054501.	3.0	25
9	Size-dependent penetrant diffusion in polymer glasses. Soft Matter, 2018, 14, 4226-4230.	2.7	22
10	Molecular Simulations of Solute Transport in Polymer Melts. ACS Macro Letters, 2017, 6, 864-868.	4.8	21
11	Beyond packing of hard spheres: The effects of core softness, non-additivity, intermediate-range repulsion, and many-body interactions on the glass-forming ability of bulk metallic glasses. Journal of Chemical Physics, 2015, 143, 184502.	3.0	18
12	The glass-forming ability of model metal-metalloid alloys. Journal of Chemical Physics, 2015, 142, 104504.	3.0	15
13	Impact of Electrostatic Interactions on the Self-Assembly of Charge-Neutral Block Copolyelectrolytes. Macromolecules, 2020, 53, 548-557.	4.8	14
14	Asymmetric crystallization during cooling and heating in model glass-forming systems. Physical Review E, 2015, 91, 032309.	2.1	12
15	Particle rearrangement and softening contributions to the nonlinear mechanical response of glasses. Physical Review E, 2017, 96, 032602.	2.1	10
16	Quantifying Nanoparticle Assembly States in a Polymer Matrix through Deep Learning. Macromolecules, 2021, 54, 3034-3040.	4.8	9
17	Glass formation in binary alloys with different atomic symmetries. Physical Review Materials, 2020, 4, .	2.4	5
18	Free energy cost to assemble superlattices of polymer-grafted nanoparticles. Soft Matter, 2022, 18, 640-647.	2.7	3

#	Article	IF	Citations
19	Unifying the concepts of scattering and structure factor in ordered and disordered samples. Journal of Applied Crystallography, 2021, 54, 644-660.	4.5	2
20	Size-Sieving Separation of Hard-Sphere Gases at Low Concentrations through Cylindrically Porous Membranes. Soft Matter, 2021, 17, 10025-10031.	2.7	2
21	In Situ Atomic Force Microscopy Tracking of Nanoparticle Migration in Semicrystalline Polymers. ACS Macro Letters, 2022, 11, 818-824.	4.8	2
22	Stable small bubble clusters in two-dimensional foams. Soft Matter, 2017, 13, 4370-4380.	2.7	1
23	Defining the optimal criterion for separating gases using polymeric membranes. Soft Matter, 2018, 14, 9847-9850.	2.7	1
24	Illustrating the Concepts of Entropy, Free Energy, and Thermodynamic Equilibrium with a Lattice Model. Journal of Chemical Education, 2020, 97, 1903-1907.	2.3	0