Bin Wu

List of Publications by Year
in descending order

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26 papers	571 citations	623734 14 h-index	610901 24 g-index
27 all docs	27 docs citations	27 times ranked	863 citing authors

#	Article	IF	Citations
1	Assessment of Radiation Background Suppression Using Phoswich Detectors for In Vivo Pb-210 Measurements: A Simulation Study. Nuclear Technology, 2022, 208, 753-760.	1.2	4
2	Scaling of Shear Rheology of Concentrated Charged Colloidal Suspensions across Glass Transition. Journal of Physical Chemistry B, 2022, 126, 922-927.	2.6	0
3	Experimental investigation on the radiation background inside body counters. Nuclear Science and Techniques/Hewuli, 2022, 33, 1.	3.4	3
4	drtsans: The data reduction toolkit for small-angle neutron scattering at Oak Ridge National Laboratory. SoftwareX, 2022, 19, 101101.	2.6	32
5	Dimension-Controlled Dewetting in Hydrophobic Porous Nanocapsules. Journal of Physical Chemistry C, 2020, 124, 10201-10208.	3.1	3
6	Atomistic mechanism and probability determination of the cutting of Guinier-Preston zones by edge dislocations in dilute Al-Cu alloys. Physical Review Materials, 2020, 4, .	2.4	7
7	Strain heterogeneity in sheared colloids revealed by neutron scattering. Physical Chemistry Chemical Physics, 2018, 20, 6050-6054.	2.8	0
8	The suite of small-angle neutron scattering instruments at Oak Ridge National Laboratory. Journal of Applied Crystallography, 2018, 51, 242-248.	4.5	115
9	Characterization of microscopic deformation through two-point spatial correlation functions. Physical Review E, 2018, 97, 012605.	2.1	18
10	Atomic Dynamics in Simple Liquid: de Gennes Narrowing Revisited. Physical Review Letters, 2018, 120, 135502.	7.8	34
11	Viscosity and real-space molecular motion of water: Observation with inelastic x-ray scattering. Physical Review E, 2018, 98, 022604.	2.1	25
12	Reconstruction of three-dimensional anisotropic structure from small-angle scattering experiments. Physical Review E, 2017, 96, 022612.	2.1	16
13	Seeing real-space dynamics of liquid water through inelastic x-ray scattering. Science Advances, 2017, 3, e1603079.	10.3	53
14	Reduction-Triggered Self-Assembly of Nanoscale Molybdenum Oxide Molecular Clusters. Journal of the American Chemical Society, 2016, 138, 10623-10629.	13.7	31
15	X-ray and Neutron Scattering Study of the Formation of Coreâ€“Shell-Type Polyoxometalates. Journal of the American Chemical Society, 2016, 138, 2638-2643.	13.7	49
16	Anisotropy of stress correlation in two-dimensional liquids and a pseudospin model. Physical Review E, 2015, 92, 052303.	2.1	4
17	Anisotropic stress correlations in two-dimensional liquids. Physical Review E, 2015, 91, 032301.	2.1	27
18	Dynamical Threshold of Diluteness of Soft Colloids. ACS Macro Letters, 2014, 3, 1271-1275.	4.8	7

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19	Atomistic Structure of Bottlebrush Polymers: Simulations and Neutron Scattering Studies. Macromolecules, 2014, 47, 5808-5814.	4.8	42
20	Molecular Dynamics Simulation of Thermodynamic Properties in Uranium Dioxide. Nuclear Science and Engineering, 2014, 176, 360-369.	1.1	0
21	Charge-Dependent Dynamics of a Polyelectrolyte Dendrimer and Its Correlation with Invasive Water. Journal of the American Chemical Society, 2013, 135, 5111-5117.	13.7	12
22	Structural response of polyelectrolyte dendrimer towards molecular protonation: the inconsistency revealed by SANS and NMR. Journal of Physics Condensed Matter, 2012, 24, 064116.	1.8	10
23	Characterizations of Polyamidoamine Dendrimers with Scattering Techniques. Polymers, 2012, 4, 600-616.	4.5	30
24	Structured water in polyelectrolyte dendrimers: Understanding small angle neutron scattering results through atomistic simulation. Journal of Chemical Physics, 2012, 136, 144901.	3.0	21
25	Molecular dynamics and neutron scattering study of the dependence of polyelectrolyte dendrimer conformation on counterion behavior. Journal of Chemical Physics, 2012, 137, 064902.	3.0	7
26	Spatial distribution of intra-molecular water and polymeric components in polyelectrolyte dendrimers revealed by small angle scattering investigations. Journal of Chemical Physics, 2011, 135, 144903.	3.0	16