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	The suite of small-angle neutron scattering instruments at Oak Ridge National Laboratory. Journal of Applied Crystallography, 2018, 51, 242-248.	4.5	115
2	Seeing real-space dynamics of liquid water through inelastic x-ray scattering. Science Advances, 2017, 3, e1603079.	10.3	53
3	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
4	Atomistic Structure of Bottlebrush Polymers: Simulations and Neutron Scattering Studies. Macromolecules, 2014, 47, 5808-5814.	4.8	42
5	Atomic Dynamics in Simple Liquid: de Gennes Narrowing Revisited. Physical Review Letters, 2018, 120, 135502.	7.8	34
6	drtsans: The data reduction toolkit for small-angle neutron scattering at Oak Ridge National Laboratory. SoftwareX, 2022, 19, 101101.	2.6	32
7	Reduction-Triggered Self-Assembly of Nanoscale Molybdenum Oxide Molecular Clusters. Journal of the American Chemical Society, 2016, 138, 10623-10629.	13.7	31
8	Characterizations of Polyamidoamine Dendrimers with Scattering Techniques. Polymers, 2012, 4, 600-616.	4.5	30
9	Anisotropic stress correlations in two-dimensional liquids. Physical Review E, 2015, 91, 032301.	2.1	27
10	Viscosity and real-space molecular motion of water: Observation with inelastic x-ray scattering. Physical Review E, 2018, 98, 022604.	2.1	25
11	Structured water in polyelectrolyte dendrimers: Understanding small angle neutron scattering results through atomistic simulation. Journal of Chemical Physics, 2012, 136, 144901.	3.0	21
12	Characterization of microscopic deformation through two-point spatial correlation functions. Physical Review E, 2018, 97, 012605.	2.1	18
13	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
14	Reconstruction of three-dimensional anisotropic structure from small-angle scattering experiments. Physical Review E, 2017, 96, 022612.	2.1	16
15	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
16	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
17	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
18	Dynamical Threshold of Diluteness of Soft Colloids. ACS Macro Letters, 2014, 3, 1271-1275.	4.8	7

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19	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
20	Anisotropy of stress correlation in two-dimensional liquids and a pseudospin model. Physical Review E, 2015, 92, 052303.	2.1	4
21	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
22	Dimension-Controlled Dewetting in Hydrophobic Porous Nanocapsules. Journal of Physical Chemistry C, 2020, 124, 10201-10208.	3.1	3
23	Experimental investigation on the radiation background inside body counters. Nuclear Science and Techniques/Hewuli, 2022, 33, 1.	3.4	3
24	Molecular Dynamics Simulation of Thermodynamic Properties in Uranium Dioxide. Nuclear Science and Engineering, 2014, 176, 360-369.	1.1	0
25	Strain heterogeneity in sheared colloids revealed by neutron scattering. Physical Chemistry Chemical Physics, 2018, 20, 6050-6054.	2.8	0
26	Scaling of Shear Rheology of Concentrated Charged Colloidal Suspensions across Glass Transition. Journal of Physical Chemistry B, 2022, 126, 922-927.	2.6	0