## Zhe Wang

## List of Publications by Year in descending order

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ΖΗΕ ΜΛΛΝΟ

#	Article	IF	CITATIONS
1	Conceptual design of the grazing-incidence focusing small-angle neutron scattering (gif-SANS) instrument at CPHS. Journal of Neutron Research, 2021, 23, 201-205.	1.1	3
2	Size and shape fluctuations of ultrasoft colloids. Physical Review Research, 2021, 3, .	3.6	2
3	Quantitative production of butenes from biomass-derived γ-valerolactone catalysed by hetero-atomic MFI zeolite. Nature Materials, 2020, 19, 86-93.	27.5	74
4	Revealing the detailed structure in flow-induced crystallization of semicrystalline polymers. Physical Chemistry Chemical Physics, 2020, 22, 25206-25214.	2.8	6
5	Phonon Spectroscopy in Antimony and Tellurium Oxides. Journal of Physical Chemistry A, 2020, 124, 7869-7880.	2.5	6
6	Cesium Substitution Disrupts Concerted Cation Dynamics in Formamidinium Hybrid Perovskites. Chemistry of Materials, 2020, 32, 6266-6277.	6.7	38
7	Demonstration of small-angle neutron scattering measurements with a nested neutron-focusing supermirror assembly. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 972, 164072.	1.6	4
8	Dynamic Equivalence between Soft Star Polymers and Hard Spheres. ACS Macro Letters, 2019, 8, 1467-1473.	4.8	5
9	Study of a nested neutron-focusing supermirror system for small-angle neutron scattering. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 940, 380-386.	1.6	10
10	Post-synthetic modulation of the charge distribution in a metal–organic framework for optimal binding of carbon dioxide and sulfur dioxide. Chemical Science, 2019, 10, 1472-1482.	7.4	62
11	Chain conformation of polymer melts with associating groups. Journal of Physics Communications, 2019, 3, 035007.	1.2	10
12	Capture of nitrogen dioxide and conversion to nitric acid in a porous metal–organic framework. Nature Chemistry, 2019, 11, 1085-1090.	13.6	116
13	Neutron Instruments for Research in Coordination Chemistry. European Journal of Inorganic Chemistry, 2019, 2019, 1065-1089.	2.0	29
14	Local elasticity in nonlinear rheology of interacting colloidal glasses revealed by neutron scattering and rheometry. Physical Chemistry Chemical Physics, 2019, 21, 38-45.	2.8	7
15	Nanoscale Mobility of Aqueous Polyacrylic Acid in Dental Restorative Cements. ACS Applied Materials & Interfaces, 2018, 10, 9904-9915.	8.0	23
16	Comparison of two multifunctional catalysts [M/Nb <sub>2</sub> O <sub>5</sub> (M = Pd, Pt)] for one-pot hydrodeoxygenation of lignin. Catalysis Science and Technology, 2018, 8, 6129-6136.	4.1	26
17	Analysis of Small-Angle Neutron Scattering Spectra from Deformed Polymers with the Spherical Harmonic Expansion Method and a Network Model. Macromolecules, 2018, 51, 9011-9018.	4.8	10
18	Scaling Behavior of Anisotropy Relaxation in Deformed Polymers. Physical Review Letters, 2018, 121, 117801.	7.8	13

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19	Spin–phonon couplings in transition metal complexes with slow magnetic relaxation. Nature Communications, 2018, 9, 2572.	12.8	93
20	Spatial-Temporal Characteristics of Confined Polymer Motion Determine Proton Conduction of Polyoxometalate–Poly(ethylene glycol) Hybrid Nanocomposites. Journal of Physical Chemistry Letters, 2018, 9, 5772-5777.	4.6	32
21	Reversible adsorption of nitrogen dioxide within a robust porous metal–organic framework. Nature Materials, 2018, 17, 691-696.	27.5	162
22	Insight into the Selectivity of Isopropanol Conversion at Strontium Titanate (100) Surfaces: A Combination Kinetic and Spectroscopic Study. ACS Catalysis, 2017, 7, 8118-8129.	11.2	19
23	Understanding the breathing phenomena in nano-ZIF-7 upon gas adsorption. Journal of Materials Chemistry A, 2017, 5, 20938-20946.	10.3	50
24	Reconstruction of three-dimensional anisotropic structure from small-angle scattering experiments. Physical Review E, 2017, 96, 022612.	2.1	16
25	Selective production of arenes via direct lignin upgrading over a niobium-based catalyst. Nature Communications, 2017, 8, 16104.	12.8	346
26	Fingerprinting Molecular Relaxation in Deformed Polymers. Physical Review X, 2017, 7, .	8.9	41
27	Nanoconfinement Inside Molecular Metal Oxide Clusters: Dynamics and Modified Encapsulation Behavior. Chemistry - A European Journal, 2016, 22, 14073-14073.	3.3	3
28	Nanoconfinement Inside Molecular Metal Oxide Clusters: Dynamics and Modified Encapsulation Behavior. Chemistry - A European Journal, 2016, 22, 14131-14136.	3.3	6
29	X-ray and Neutron Scattering Study of the Formation of Core–Shell-Type Polyoxometalates. Journal of the American Chemical Society, 2016, 138, 2638-2643.	13.7	49
30	Dynamical behaviors of structural, constrained and free water in calcium- and magnesium-silicate-hydrate gels. Journal of Colloid and Interface Science, 2016, 469, 157-163.	9.4	15
31	Wang <i>etÂal.</i> Reply:. Physical Review Letters, 2015, 115, 149802.	7.8	2
32	Pressure Effect on the Boson Peak in Deeply Cooled Confined Water: Evidence of a Liquid-Liquid Transition. Physical Review Letters, 2015, 115, 235701.	7.8	13
33	Dynamic crossover in deeply cooled water confined in MCM-41 at 4 kbar and its relation to the liquid-liquid transition hypothesis. Journal of Chemical Physics, 2015, 143, 114508.	3.0	24
34	The Boson peak in confined water: An experimental investigation of the liquid-liquid phase transition hypothesis. Frontiers of Physics, 2015, 10, 1.	5.0	10
35	Magnetic proximity effect and interlayer exchange coupling of ferromagnetic/topological insulator/ferromagnetic trilayer. Physical Review B, 2015, 91, .	3.2	44
36	Liquid–Liquid Phase Transition and Its Phase Diagram in Deeply-Cooled Heavy Water Confined in a Nanoporous Silica Matrix. Journal of Physical Chemistry Letters, 2015, 6, 2009-2014.	4.6	27

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37	Hydration-dependent dynamic crossover phenomenon in protein hydration water. Physical Review E, 2014, 90, 042705.	2.1	12
38	One role of hydration water in proteins: key to the "softening―of short time intraprotein collective vibrations of a specific length scale. Soft Matter, 2014, 10, 4298-4303.	2.7	12
39	Evidence of the existence of the high-density and low-density phases in deeply-cooled confined heavy water under high pressures. Journal of Chemical Physics, 2014, 141, 014501.	3.0	15
40	Boson Peak in Deeply Cooled Confined Water: A Possible Way to Explore the Existence of the Liquid-to-Liquid Transition in Water. Physical Review Letters, 2014, 112, 237802.	7.8	24
41	Tunable THz surface plasmon polariton based on a topological insulator/layered superconductor hybrid structure. Physical Review B, 2014, 89, .	3.2	3
42	Inelastic X-ray Scattering Studies of the Short-Time Collective Vibrational Motions in Hydrated Lysozyme Powders and Their Possible Relation to Enzymatic Function. Journal of Physical Chemistry B, 2013, 117, 1186-1195.	2.6	21
43	Search for the first-order liquid-to-liquid phase transition in low-temperature confined water by neutron scattering. AIP Conference Proceedings, 2013, , .	0.4	3
44	Effect of a floating electrode on an atmospheric-pressure non-thermal arc discharge. Journal of Applied Physics, 2011, 110, .	2.5	12
45	Evaluation of the Two-Dimensional Temperature Field and Instability of a Dual-Jet DC Arc Plasma Based on the Image Chain Coding Technique. IEEE Transactions on Plasma Science, 2011, 39, 2884-2885.	1.3	15
46	Volt-Ampere and Thermal Features of a Direct-Current Dual-Jet Plasma Generator With a Cold Gas Injection. IEEE Transactions on Plasma Science, 2010, 38, 2906-2913.	1.3	12
47	Resolution of VISION, a crystal-analyzer spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604,	1.6	79