Limei Xu

List of Publications by Year
in descending order

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Version: 2024-02-01

47 papers	3,655 citations	279798 23 h-index	214800 47 g-index
48 all docs	48 docs citations	48 times ranked	3439 citing authors

#	Article	IF	Citations
1	Widely tunable optical properties via oxygen manipulation in an amorphous alloy. Science China Materials, 2021, 64, 2305-2312.	6.3	4
2	Glass polyamorphism in gallium: Two amorphous solid states and their transformation on the potential energy landscape. Journal of Chemical Physics, 2021, 154, 134503.	3.0	2
3	Fast crystal growth at ultra-low temperatures. Nature Materials, 2021, 20, 1431-1439.	27.5	36
4	Advances in Atomic Force Microscopy: Imaging of Two- and Three-Dimensional Interfacial Water. Frontiers in Chemistry, 2021, 9, 745446.	3.6	5
5	Atomic imaging of the edge structure and growth of a two-dimensional hexagonal ice. Nature, 2020, 577, 60-63.	27.8	149
6	Hydration of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mrow><mml:mi>NH</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msubsup></mml:mrow></mml:math> in Water: Bifurcated Hydrogen Bonding Structures and Fast Rotational Dynamics. Physical Review Letters, 2020, 125, 106001.	7.8	17
7	Energy Stored in Nanoscale Water Capillary Bridges between Patchy Surfaces. Langmuir, 2020, 36, 7246-7251.	3.5	5
8	Nuclear quantum effects on the thermodynamic response functions of a polymorphic waterlike monatomic liquid. Physical Review Research, 2020, 2, .	3.6	6
9	Adsorption Structure and Coverage-Dependent Orientation Analysis of Sub-Monolayer Acetonitrile on TiO₂(110). Journal of Physical Chemistry C, 2019, 123, 17915-17924.	3.1	6
10	Advances in Atomic Force Microscopy: Weakly Perturbative Imaging of the Interfacial Water. Frontiers in Chemistry, 2019, 7, 626.	3.6	13
11	Preface to the special topic: New advances in water and water systems. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	0
12	Importance of van der Waals effects on the hydration of metal ions from the Hofmeister series. Journal of Chemical Physics, 2019, 150, 124505.	3.0	11
13	Anomalous Features in the Potential Energy Landscape of a Waterlike Monatomic Model with Liquid and Glass Polymorphism. Physical Review Letters, 2018, 120, 035701.	7.8	6
14	Weakly perturbative imaging of interfacial water with submolecular resolution by atomic force microscopy. Nature Communications, 2018, 9, 122.	12.8	105
15	Signature of the hydrogen-bonded environment of liquid water in X-ray emission spectra from first-principles calculations. Frontiers of Physics, 2018, 13, 1.	5.0	3
16	Definition of Free Oâ€“H Groups of Water at the Airâ€“Water Interface. Journal of Chemical Theory and Computation, 2018, 14, 357-364.	5.3	46
17	Stretched and compressed exponentials in the relaxation dynamics of a metallic glass-forming melt. Nature Communications, 2018, 9, 5334.	12.8	60
18	The effect of hydration number on the interfacial transport of sodium ions. Nature, 2018, 557, 701-705.	27.8	205

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19	Relationship between the potential energy landscape and the dynamic crossover in a water-like monatomic liquid with a liquid-liquid phase transition. Journal of Chemical Physics, 2017, 146, 014503.	3.0	15
20	Structural origin of fractional Stokes-Einstein relation in glass-forming liquids. Scientific Reports, 2017, 7, 39938.	3.3	27
21	X-ray absorption of liquid water by advanced ab initio methods. Physical Review B, 2017, 96, .	3.2	11
22	Water: A Tale of Two Liquids. Chemical Reviews, 2016, 116, 7463-7500.	47.7	627
23	The phase behavior study of human antibody solution using multi-scale modeling. Journal of Chemical Physics, 2016, 145, 194901.	3.0	14
24	Anomalous properties and the liquid-liquid phase transition in gallium. Journal of Chemical Physics, 2016, 145, 054506.	3.0	24
25	Confined Water as Model of Supercooled Water. Chemical Reviews, 2016, 116, 7608-7625.	47.7	250
26	Confinement effects on the liquid-liquid phase transition and anomalous properties of a monatomic water-like liquid. Journal of Chemical Physics, 2015, 143, 244503.	3.0	9
27	Optimization of crystal nucleation close to a metastable fluid-fluid phase transition. Scientific Reports, 2015, 5, 11260.	3.3	21
28	Physics of the Jagla model as the liquid-liquid coexistence line slope varies. Journal of Chemical Physics, 2015, 142, 224501.	3.0	19
29	Range effect on percolation threshold and structural properties for short-range attractive spheres. Journal of Chemical Physics, 2015, 142, 034504.	3.0	3
30	Supercritical phenomenon of hydrogen beyond the liquidâ€“liquid phase transition. New Journal of Physics, 2015, 17, 063023.	2.9	12
31	Experimental and Theoretical Advances in Amorphous Alloys. Advances in Materials Science and Engineering, 2014, 2014, 1-2.	1.8	6
32	Behavior of the Widom Line in Critical Phenomena. Physical Review Letters, 2014, 112, 135701.	7.8	51
33	An unconventional bilayer ice structure on a NaCl(001) film. Nature Communications, 2014, 5, 4056.	12.8	64
34	Real-space imaging of interfacial water with submolecular resolution. Nature Materials, 2014, 13, 184-189.	27.5	173
35	Physisorption of molecular hydrogen on carbon nanotube with vacant defects. Journal of Chemical Physics, 2014, 140, 204712.	3.0	7
36	Liquid-liquid phase transition in water. Science China: Physics, Mechanics and Astronomy, 2014, 57, 810-818.	5.1	14

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37	Effects of surface structure and solvophilicity on the crystallization of confined liquids. Soft Matter, 2013, 9, 11374.	2.7	12
38	Waterlike glass polyamorphism in a monoatomic isotropic Jagla model. Journal of Chemical Physics, 2011, 134, 064507.	3.0	46
39	Is There a Liquidâ€“Liquid Transition in Confined Water?. Journal of Physical Chemistry B, 2011, 115, 14210-14216.	2.6	43
40	Liquidâ^'Vapor Oscillations of Water Nanoconfined between Hydrophobic Disks: Thermodynamics and Kinetics. Journal of Physical Chemistry B, 2010, 114, 7320-7328.	2.6	43
41	Appearance of a fractional Stokesâ€“Einstein relation in water and a structural interpretation ofÂits onset. Nature Physics, 2009, 5, 565-569.	16.7	219
42	A monatomic system with a liquid-liquid critical point and two distinct glassy states. Journal of Chemical Physics, 2009, 130, 054505.	3.0	77
43	Thermodynamics and dynamics of the two-scale spherically symmetric Jagla ramp model of anomalous liquids. Physical Review E, 2006, 74, 031108.	2.1	154
44	Relationship between the liquidâ€“liquid phase transition and dynamic behaviour in the Jagla model. Journal of Physics Condensed Matter, 2006, 18, S2239-S2246.	1.8	35
45	Spurious detection of phase synchronization in coupled nonlinear oscillators. Physical Review E, 2006, 73, 065201.	2.1	52
46	Relation between the Widom line and the dynamic crossover in systems with a liquid-liquid phase transition. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16558-16562.	7.1	693
47	Quantifying signals with power-law correlations: A comparative study of detrended fluctuation analysis and detrended moving average techniques. Physical Review E, 2005, 71, 051101.	2.1	254