

Limei Xu

List of Publications by Year in descending order

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47
papers

3,655
citations

318942

23
h-index

242451

47
g-index

48
all docs

48
docs citations

48
times ranked

3920
citing authors

#	ARTICLE	IF	CITATIONS
1	Widely tunable optical properties via oxygen manipulation in an amorphous alloy. <i>Science China Materials</i> , 2021, 64, 2305-2312.	3.5	4
2	Glass polymorphism in gallium: Two amorphous solid states and their transformation on the potential energy landscape. <i>Journal of Chemical Physics</i> , 2021, 154, 134503.	1.2	2
3	Fast crystal growth at ultra-low temperatures. <i>Nature Materials</i> , 2021, 20, 1431-1439.	13.3	36
4	Advances in Atomic Force Microscopy: Imaging of Two- and Three-Dimensional Interfacial Water. <i>Frontiers in Chemistry</i> , 2021, 9, 745446.	1.8	5
5	Atomic imaging of the edge structure and growth of a two-dimensional hexagonal ice. <i>Nature</i> , 2020, 577, 60-63.	13.7	149
6	Hydration of NH_4^{+} in Water: Bifurcated Hydrogen Bonding Structures and Fast Rotational Dynamics. <i>Physical Review Letters</i> , 2020, 125, 106001.	2.9	17
7	Energy Stored in Nanoscale Water Capillary Bridges between Patchy Surfaces. <i>Langmuir</i> , 2020, 36, 7246-7251.	1.6	5
8	Nuclear quantum effects on the thermodynamic response functions of a polymorphic waterlike monatomic liquid. <i>Physical Review Research</i> , 2020, 2, .	1.3	6
9	Adsorption Structure and Coverage-Dependent Orientation Analysis of Sub-Monolayer Acetonitrile on $\text{TiO}_2(110)$. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17915-17924.	1.5	6
10	Advances in Atomic Force Microscopy: Weakly Perturbative Imaging of the Interfacial Water. <i>Frontiers in Chemistry</i> , 2019, 7, 626.	1.8	13
11	Preface to the special topic: New advances in water and water systems. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	0
12	Importance of van der Waals effects on the hydration of metal ions from the Hofmeister series. <i>Journal of Chemical Physics</i> , 2019, 150, 124505.	1.2	11
13	Anomalous Features in the Potential Energy Landscape of a Waterlike Monatomic Model with Liquid and Glass Polymorphism. <i>Physical Review Letters</i> , 2018, 120, 035701.	2.9	6
14	Weakly perturbative imaging of interfacial water with submolecular resolution by atomic force microscopy. <i>Nature Communications</i> , 2018, 9, 122.	5.8	105
15	Signature of the hydrogen-bonded environment of liquid water in X-ray emission spectra from first-principles calculations. <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	3
16	Definition of Free OH Groups of Water at the Air-Water Interface. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 357-364.	2.3	46
17	Stretched and compressed exponentials in the relaxation dynamics of a metallic glass-forming melt. <i>Nature Communications</i> , 2018, 9, 5334.	5.8	60
18	The effect of hydration number on the interfacial transport of sodium ions. <i>Nature</i> , 2018, 557, 701-705.	13.7	205

#	ARTICLE	IF	CITATIONS
19	Relationship between the potential energy landscape and the dynamic crossover in a water-like monatomic liquid with a liquid-liquid phase transition. <i>Journal of Chemical Physics</i> , 2017, 146, 014503.	1.2	15
20	Structural origin of fractional Stokes-Einstein relation in glass-forming liquids. <i>Scientific Reports</i> , 2017, 7, 39938.	1.6	27
21	X-ray absorption of liquid water by advanced <i>ab initio</i> methods. <i>Physical Review B</i> , 2017, 96, .	1.1	11
22	Water: A Tale of Two Liquids. <i>Chemical Reviews</i> , 2016, 116, 7463-7500.	23.0	627
23	The phase behavior study of human antibody solution using multi-scale modeling. <i>Journal of Chemical Physics</i> , 2016, 145, 194901.	1.2	14
24	Anomalous properties and the liquid-liquid phase transition in gallium. <i>Journal of Chemical Physics</i> , 2016, 145, 054506.	1.2	24
25	Confined Water as Model of Supercooled Water. <i>Chemical Reviews</i> , 2016, 116, 7608-7625.	23.0	250
26	Confinement effects on the liquid-liquid phase transition and anomalous properties of a monatomic water-like liquid. <i>Journal of Chemical Physics</i> , 2015, 143, 244503.	1.2	9
27	Optimization of crystal nucleation close to a metastable fluid-fluid phase transition. <i>Scientific Reports</i> , 2015, 5, 11260.	1.6	21
28	Physics of the Jagla model as the liquid-liquid coexistence line slope varies. <i>Journal of Chemical Physics</i> , 2015, 142, 224501.	1.2	19
29	Range effect on percolation threshold and structural properties for short-range attractive spheres. <i>Journal of Chemical Physics</i> , 2015, 142, 034504.	1.2	3
30	Supercritical phenomenon of hydrogen beyond the liquid-liquid phase transition. <i>New Journal of Physics</i> , 2015, 17, 063023.	1.2	12
31	Experimental and Theoretical Advances in Amorphous Alloys. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-2.	1.0	6
32	Behavior of the Widom Line in Critical Phenomena. <i>Physical Review Letters</i> , 2014, 112, 135701.	2.9	51
33	An unconventional bilayer ice structure on a NaCl(001) film. <i>Nature Communications</i> , 2014, 5, 4056.	5.8	64
34	Real-space imaging of interfacial water with submolecular resolution. <i>Nature Materials</i> , 2014, 13, 184-189.	18.3	173
35	Physisorption of molecular hydrogen on carbon nanotube with vacant defects. <i>Journal of Chemical Physics</i> , 2014, 140, 204712.	1.2	7
36	Liquid-liquid phase transition in water. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 810-818.	2.0	14

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37	Effects of surface structure and solvophilicity on the crystallization of confined liquids. <i>Soft Matter</i> , 2013, 9, 11374.	1.2	12
38	Waterlike glass polyamorphism in a monoatomic isotropic Jagla model. <i>Journal of Chemical Physics</i> , 2011, 134, 064507.	1.2	46
39	Is There a Liquid-Liquid Transition in Confined Water?. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14210-14216.	1.2	43
40	Liquid-Vapor Oscillations of Water Nanoconfined between Hydrophobic Disks: Thermodynamics and Kinetics. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7320-7328.	1.2	43
41	Appearance of a fractional Stokes-Einstein relation in water and a structural interpretation of its onset. <i>Nature Physics</i> , 2009, 5, 565-569.	6.5	219
42	A monoatomic system with a liquid-liquid critical point and two distinct glassy states. <i>Journal of Chemical Physics</i> , 2009, 130, 054505.	1.2	77
43	Thermodynamics and dynamics of the two-scale spherically symmetric Jagla ramp model of anomalous liquids. <i>Physical Review E</i> , 2006, 74, 031108.	0.8	154
44	Relationship between the liquid-liquid phase transition and dynamic behaviour in the Jagla model. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2239-S2246.	0.7	35
45	Spurious detection of phase synchronization in coupled nonlinear oscillators. <i>Physical Review E</i> , 2006, 73, 065201.	0.8	52
46	Relation between the Widom line and the dynamic crossover in systems with a liquid-liquid phase transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16558-16562.	3.3	693
47	Quantifying signals with power-law correlations: A comparative study of detrended fluctuation analysis and detrended moving average techniques. <i>Physical Review E</i> , 2005, 71, 051101.	0.8	254