Limei Xu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2092656/publications.pdf

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	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
2	Water: A Tale of Two Liquids. Chemical Reviews, 2016, 116, 7463-7500.	47.7	627
3	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
4	Confined Water as Model of Supercooled Water. Chemical Reviews, 2016, 116, 7608-7625.	47.7	250
5	Appearance of a fractional Stokesâ€“Einstein relation in water and a structural interpretation ofÂits onset. Nature Physics, 2009, 5, 565-569.	16.7	219
6	The effect of hydration number on the interfacial transport of sodium ions. Nature, 2018, 557, 701-705.	27.8	205
7	Real-space imaging of interfacial water with submolecular resolution. Nature Materials, 2014, 13, 184-189.	27.5	173
8	Thermodynamics and dynamics of the two-scale spherically symmetric Jagla ramp model of anomalous liquids. Physical Review E, 2006, 74, 031108.	2.1	154
9	Atomic imaging of the edge structure and growth of a two-dimensional hexagonal ice. Nature, 2020, 577, 60-63.	27.8	149
10	Weakly perturbative imaging of interfacial water with submolecular resolution by atomic force microscopy. Nature Communications, 2018, 9, 122.	12.8	105
11	A monatomic system with a liquid-liquid critical point and two distinct glassy states. Journal of Chemical Physics, 2009, 130, 054505.	3.0	77
12	An unconventional bilayer ice structure on a NaCl(001) film. Nature Communications, 2014, 5, 4056.	12.8	64
13	Stretched and compressed exponentials in the relaxation dynamics of a metallic glass-forming melt. Nature Communications, 2018, 9, 5334.	12.8	60
14	Spurious detection of phase synchronization in coupled nonlinear oscillators. Physical Review E, 2006, 73, 065201.	2.1	52
15	Behavior of the Widom Line in Critical Phenomena. Physical Review Letters, 2014, 112, 135701.	7.8	51
16	Waterlike glass polyamorphism in a monoatomic isotropic Jagla model. Journal of Chemical Physics, 2011, 134, 064507.	3.0	46
17	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
18	Liquidâˆ’Vapor Oscillations of Water Nanoconfined between Hydrophobic Disks: Thermodynamics and Kinetics. Journal of Physical Chemistry B, 2010, 114, 7320-7328.	2.6	43

#	Article	IF	Citations
19	Is There a Liquidâ€“Liquid Transition in Confined Water?. Journal of Physical Chemistry B, 2011, 115, 14210-14216.	2.6	43
20	Fast crystal growth at ultra-low temperatures. Nature Materials, 2021, 20, 1431-1439.	27.5	36
21	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
22	Structural origin of fractional Stokes-Einstein relation in glass-forming liquids. Scientific Reports, 2017, 7, 39938.	3.3	27
23	Anomalous properties and the liquid-liquid phase transition in gallium. Journal of Chemical Physics, 2016, 145, 054506.	3.0	24
24	Optimization of crystal nucleation close to a metastable fluid-fluid phase transition. Scientific Reports, 2015, 5, 11260.	3.3	21
25	Physics of the Jagla model as the liquid-liquid coexistence line slope varies. Journal of Chemical Physics, 2015, 142, 224501.	3.0	19
26	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> in Water: Bifurcated Hydrogen Bonding Structures and Fast Rotational Dynamics. Physical Review Letters, 2020, 125, 106001.	7.8	17
27	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
28	Liquid-liquid phase transition in water. Science China: Physics, Mechanics and Astronomy, 2014, 57, 810-818.	5.1	14
29	The phase behavior study of human antibody solution using multi-scale modeling. Journal of Chemical Physics, 2016, 145, 194901.	3.0	14
30	Advances in Atomic Force Microscopy: Weakly Perturbative Imaging of the Interfacial Water. Frontiers in Chemistry, 2019, 7, 626.	3.6	13
31	Effects of surface structure and solvophilicity on the crystallization of confined liquids. Soft Matter, 2013, 9, 11374.	2.7	12
32	Supercritical phenomenon of hydrogen beyond the liquidâ€“liquid phase transition. New Journal of Physics, 2015, 17, 063023.	2.9	12
33	X-ray absorption of liquid water by advanced ab initio methods. Physical Review B, 2017, 96, .	3.2	11
34	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
35	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
36	Physisorption of molecular hydrogen on carbon nanotube with vacant defects. Journal of Chemical Physics, 2014, 140, 204712.	3.0	7

#	Article	IF	Citations
37	Experimental and Theoretical Advances in Amorphous Alloys. Advances in Materials Science and Engineering, 2014, 2014, 1-2.	1.8	6
38	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
39	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
40	Nuclear quantum effects on the thermodynamic response functions of a polymorphic waterlike monatomic liquid. Physical Review Research, 2020, 2, .	3.6	6
41	Energy Stored in Nanoscale Water Capillary Bridges between Patchy Surfaces. Langmuir, 2020, 36, 7246-7251.	3.5	5
42	Advances in Atomic Force Microscopy: Imaging of Two- and Three-Dimensional Interfacial Water. Frontiers in Chemistry, 2021, 9, 745446.	3.6	5
43	Widely tunable optical properties via oxygen manipulation in an amorphous alloy. Science China Materials, 2021, 64, 2305-2312.	6.3	4
44	Range effect on percolation threshold and structural properties for short-range attractive spheres. Journal of Chemical Physics, 2015, 142, 034504.	3.0	3
45	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
46	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
47	Preface to the special topic: New advances in water and water systems. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	0