Ji Chen

List of Publications by Year
in descending order

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44	2,668	279798	243625
papers	citations	23 h-index	44 g-index

47	47	47	3391
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal Nucleation in Liquids: Open Questions and Future Challenges in Molecular Dynamics Simulations. Chemical Reviews, 2016, 116, 7078-7116.	47.7	635
2	The effect of hydration number on the interfacial transport of sodium ions. Nature, 2018, 557, 701-705.	27.8	205
3	Real-space imaging of interfacial water with submolecular resolution. Nature Materials, 2014, 13, 184-189.	27.5	173
4	Two Dimensional Ice from First Principles: Structures and Phase Transitions. Physical Review Letters, 2016, 116, 025501.	7.8	167
5	Atomic imaging of the edge structure and growth of a two-dimensional hexagonal ice. Nature, 2020, 577, 60-63.	27.8	149
6	Seeded 2D epitaxy of large-area single-crystal films of the van der Waals semiconductor 2H MoTe ₂. Science, 2021, 372, 195-200.	12.6	143
7	Nuclear quantum effects of hydrogen bonds probed by tip-enhanced inelastic electron tunneling. Science, 2016, 352, 321-325.	12.6	130
8	Direct visualization of concerted proton tunnelling in a water nanocluster. Nature Physics, 2015, 11, 235-239.	16.7	128
9	Quantum simulation of low-temperature metallic liquid hydrogen. Nature Communications, 2013, 4, 2064.	12.8	75
10	Encapsulation and Polymerization of White Phosphorus Inside Singleâ€Wall Carbon Nanotubes. Angewandte Chemie - International Edition, 2017, 56, 8144-8148.	13.8	70
11	An unconventional bilayer ice structure on a NaCl(001) film. Nature Communications, 2014, 5, 4056.	12.8	64
12	Nature of proton transport in a water-filled carbon nanotube and in liquid water. Physical Chemistry Chemical Physics, 2013, 15, 6344.	2.8	51
13	Hydrogenation Facilitates Proton Transfer through Two-Dimensional Honeycomb Crystals. Journal of Physical Chemistry Letters, 2017, 8, 6009-6014.	4.6	51
14	Measuring phonon dispersion at an interface. Nature, 2021, 599, 399-403.	27.8	47
15	Visualizing Eigen/Zundel cations and their interconversion in monolayer water on metal surfaces. Science, 2022, 377, 315-319.	12.6	47
16	Evidence for stable square ice from quantum Monte Carlo. Physical Review B, 2016, 94, .	3.2	46
17	Inverse Temperature Dependence of Nuclear Quantum Effects in DNA Base Pairs. Journal of Physical Chemistry Letters, 2016, 7, 2125-2131.	4.6	46
18	Simultaneous Deep Tunneling and Classical Hopping for Hydrogen Diffusion on Metals. Physical Review Letters, 2017, 119, 126001.	7.8	46

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19	Origins of fast diffusion of water dimers on surfaces. Nature Communications, 2020, 11, 1689.	12.8	39
20	Double-layer ice from first principles. Physical Review B, 2017, 95, .	3.2	29
21	Visualization of Water-Induced Surface Segregation of Polarons on Rutile TiO₂(110). Journal of Physical Chemistry Letters, 2018, 9, 4865-4871.	4.6	28
22	Encapsulation and Polymerization of White Phosphorus Inside Singleâ€Wall Carbon Nanotubes. Angewandte Chemie, 2017, 129, 8256-8260.	2.0	26
23	Nuclear quantum effects on the high pressure melting of dense lithium. Journal of Chemical Physics, 2015, 142, 064506.	3.0	25
24	Oneâ€Dimensional Arsenic Allotropes: Polymerization of Yellow Arsenic Inside Singleâ€Wall Carbon Nanotubes. Angewandte Chemie - International Edition, 2018, 57, 11649-11653.	13.8	23
25	Microscopic Kinetics Pathway of Salt Crystallization in Graphene Nanocapillaries. Physical Review Letters, 2021, 126, 136001.	7.8	22
26	On the room-temperature phase diagram of high pressure hydrogen: An ab initio molecular dynamics perspective and a diffusion Monte Carlo study. Journal of Chemical Physics, 2014, 141, 024501.	3.0	19
27	One-Dimensional Pnictogen Allotropes inside Single-Wall Carbon Nanotubes. Inorganic Chemistry, 2019, 58, 15216-15224.	4.0	18
28	The quantum nature of hydrogen. International Reviews in Physical Chemistry, 2019, 38, 35-61.	2.3	18
29	Synthesis of Honeycombâ€Structured Beryllium Oxide via Graphene Liquid Cells. Angewandte Chemie - International Edition, 2020, 59, 15734-15740.	13.8	18
30	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> in Water: Bifurcated Hydrogen Bonding Structures and Fast Rotational Dynamics. Physical Review Letters, 2020, 125, 106001.	7.8	17
31	Small polarons and the Janus nature of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></m (110). Physical Review B, 2020, 101, .	3.2	15
32	Advances in Atomic Force Microscopy: Weakly Perturbative Imaging of the Interfacial Water. Frontiers in Chemistry, 2019, 7, 626.	3.6	13
33	The color center singlet state of oxygen vacancies in TiO2. Journal of Chemical Physics, 2020, 153, 204704.	3.0	13
34	Supercritical phenomenon of hydrogen beyond the liquidâ€“liquid phase transition. New Journal of Physics, 2015, 17, 063023.	2.9	12
35	A full configuration interaction quantum Monte Carlo study of ScO, TiO, and VO molecules. Journal of Chemical Physics, 2021, 154, 164302.	3.0	11
36	The collective and quantum nature of proton transfer in the cyclic water tetramer on NaCl(001). Journal of Chemical Physics, 2018, 148, 102329.	3.0	10

#	Article	IF	Citations
37	Fermionic neural network with effective core potential. Physical Review Research, 2022, 4, .	3.6	10
38	Quantum Tunnelling Driven H₂ Formation on Graphene. Journal of Physical Chemistry Letters, 2022, 13, 3173-3181.	4.6	10
39	General embedded cluster protocol for accurate modeling of oxygen vacancies in metal-oxides. Journal of Chemical Physics, 2022, 156, 124704.	3.0	9
40	Sticky when wet. Nature Chemistry, 2018, 10, 376-377.	13.6	2
41	Oneâ€Dimensional Arsenic Allotropes: Polymerization of Yellow Arsenic Inside Singleâ€Wall Carbon Nanotubes. Angewandte Chemie, 2018, 130, 11823-11827.	2.0	2
42	Probing the intermolecular coupled vibrations in a water cluster with inelastic electron tunneling spectroscopy. Journal of Chemical Physics, 2020, 152, 234301.	3.0	2
43	Deep vacancy induced low-density fluxional interfacial water. Physical Review Research, 2021, 3, .	3.6	2
44	Synthesis of Honeycombâ€Structured Beryllium Oxide via Graphene Liquid Cells. Angewandte Chemie, 2020, 132, 15864-15870.	2.0	0