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	Fermionic neural network with effective core potential. Physical Review Research, 2022, 4, .	3.6	10
2	General embedded cluster protocol for accurate modeling of oxygen vacancies in metal-oxides. Journal of Chemical Physics, 2022, 156, 124704.	3.0	9
3	Quantum Tunnelling Driven H₂ Formation on Graphene. Journal of Physical Chemistry Letters, 2022, 13, 3173-3181.	4.6	10
4	Visualizing Eigen/Zundel cations and their interconversion in monolayer water on metal surfaces. Science, 2022, 377, 315-319.	12.6	47
5	Microscopic Kinetics Pathway of Salt Crystallization in Graphene Nanocapillaries. Physical Review Letters, 2021, 126, 136001.	7.8	22
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	A full configuration interaction quantum Monte Carlo study of ScO, TiO, and VO molecules. Journal of Chemical Physics, 2021, 154, 164302.	3.0	11
8	Deep vacancy induced low-density fluxional interfacial water. Physical Review Research, 2021, 3, .	3.6	2
9	Measuring phonon dispersion at an interface. Nature, 2021, 599, 399-403.	27.8	47
10	Atomic imaging of the edge structure and growth of a two-dimensional hexagonal ice. Nature, 2020, 577, 60-63.	27.8	149
11	The color center singlet state of oxygen vacancies in TiO2. Journal of Chemical Physics, 2020, 153, 204704.	3.0	13
12	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
13	Synthesis of Honeycombâ€Structured Beryllium Oxide via Graphene Liquid Cells. Angewandte Chemie, 2020, 132, 15864-15870.	2.0	0
14	Synthesis of Honeycombâ€Structured Beryllium Oxide via Graphene Liquid Cells. Angewandte Chemie - International Edition, 2020, 59, 15734-15740.	13.8	18
15	Probing the intermolecular coupled vibrations in a water cluster with inelastic electron tunneling spectroscopy. Journal of Chemical Physics, 2020, 152, 234301.	3.0	2
16	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></mml (110). Physical Review B, 2020, 101, .	3.2	15
17	Origins of fast diffusion of water dimers on surfaces. Nature Communications, 2020, 11, 1689.	12.8	39
18	One-Dimensional Pnictogen Allotropes inside Single-Wall Carbon Nanotubes. Inorganic Chemistry, 2019, 58, 15216-15224.	4.0	18

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19	Advances in Atomic Force Microscopy: Weakly Perturbative Imaging of the Interfacial Water. Frontiers in Chemistry, 2019, 7, 626.	3.6	13
20	The quantum nature of hydrogen. International Reviews in Physical Chemistry, 2019, 38, 35-61.	2.3	18
21	Sticky when wet. Nature Chemistry, 2018, 10, 376-377.	13.6	2
22	Oneâ€Ðimensional Arsenic Allotropes: Polymerization of Yellow Arsenic Inside Singleâ€Wall Carbon Nanotubes. Angewandte Chemie, 2018, 130, 11823-11827.	2.0	2
23	The effect of hydration number on the interfacial transport of sodium ions. Nature, 2018, 557, 701-705.	27.8	205
24	Oneâ€Ðimensional Arsenic Allotropes: Polymerization of Yellow Arsenic Inside Singleâ€Wall Carbon Nanotubes. Angewandte Chemie - International Edition, 2018, 57, 11649-11653.	13.8	23
25	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
26	Visualization of Water-Induced Surface Segregation of Polarons on Rutile TiO₂(110). Journal of Physical Chemistry Letters, 2018, 9, 4865-4871.	4.6	28
27	Encapsulation and Polymerization of White Phosphorus Inside Singleâ€Wall Carbon Nanotubes. Angewandte Chemie, 2017, 129, 8256-8260.	2.0	26
28	Encapsulation and Polymerization of White Phosphorus Inside Singleâ€Wall Carbon Nanotubes. Angewandte Chemie - International Edition, 2017, 56, 8144-8148.	13.8	70
29	Double-layer ice from first principles. Physical Review B, 2017, 95, .	3.2	29
30	Simultaneous Deep Tunneling and Classical Hopping for Hydrogen Diffusion on Metals. Physical Review Letters, 2017, 119, 126001.	7.8	46
31	Hydrogenation Facilitates Proton Transfer through Two-Dimensional Honeycomb Crystals. Journal of Physical Chemistry Letters, 2017, 8, 6009-6014.	4.6	51
32	Evidence for stable square ice from quantum Monte Carlo. Physical Review B, 2016, 94, .	3.2	46
33	Crystal Nucleation in Liquids: Open Questions and Future Challenges in Molecular Dynamics Simulations. Chemical Reviews, 2016, 116, 7078-7116.	47.7	635
34	Inverse Temperature Dependence of Nuclear Quantum Effects in DNA Base Pairs. Journal of Physical Chemistry Letters, 2016, 7, 2125-2131.	4.6	46
35	Nuclear quantum effects of hydrogen bonds probed by tip-enhanced inelastic electron tunneling. Science, 2016, 352, 321-325.	12.6	130
36	Two Dimensional Ice from First Principles: Structures and Phase Transitions. Physical Review Letters, 2016, 116, 025501.	7.8	167

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37	Direct visualization of concerted proton tunnelling in a water nanocluster. Nature Physics, 2015, 11, 235-239.	16.7	128
38	Nuclear quantum effects on the high pressure melting of dense lithium. Journal of Chemical Physics, 2015, 142, 064506.	3.0	25
39	Supercritical phenomenon of hydrogen beyond the liquidâ€“liquid phase transition. New Journal of Physics, 2015, 17, 063023.	2.9	12
40	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
41	An unconventional bilayer ice structure on a NaCl(001) film. Nature Communications, 2014, 5, 4056.	12.8	64
42	Real-space imaging of interfacial water with submolecular resolution. Nature Materials, 2014, 13, 184-189.	27.5	173
43	Nature of proton transport in a water-filled carbon nanotube and in liquid water. Physical Chemistry Chemical Physics, 2013, 15, 6344.	2.8	51
44	Quantum simulation of low-temperature metallic liquid hydrogen. Nature Communications, 2013, 4, 2064.	12.8	75