

Ying Jiang

List of Publications by Year in descending order

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61
papers

3,974
citations

185998

28
h-index

128067

60
g-index

63
all docs

63
docs citations

63
times ranked

5829
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast epitaxial growth of metre-sized single-crystal graphene on industrial Cu foil. Science Bulletin, 2017, 62, 1074-1080.	4.3	454
2	Epitaxial growth of a 100-square-centimetre single-crystal hexagonal boron nitride monolayer on copper. Nature, 2019, 570, 91-95.	13.7	422
3	Argon Plasma Induced Phase Transition in Monolayer MoS ₂ . Journal of the American Chemical Society, 2017, 139, 10216-10219.	6.6	332
4	Boundary activated hydrogen evolution reaction on monolayer MoS ₂ . Nature Communications, 2019, 10, 1348.	5.8	263
5	The effect of hydration number on the interfacial transport of sodium ions. Nature, 2018, 557, 701-705.	13.7	205
6	Real-space imaging of interfacial water with submolecular resolution. Nature Materials, 2014, 13, 184-189.	13.3	173
7	Surface coordination layer passivates oxidation of copper. Nature, 2020, 586, 390-394.	13.7	154
8	Atomic imaging of the edge structure and growth of a two-dimensional hexagonal ice. Nature, 2020, 577, 60-63.	13.7	149
9	Distinct ice patterns on solid surfaces with various wettabilities. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11285-11290.	3.3	132
10	Nuclear quantum effects of hydrogen bonds probed by tip-enhanced inelastic electron tunneling. Science, 2016, 352, 321-325.	6.0	130
11	Direct visualization of concerted proton tunnelling in a water nanocluster. Nature Physics, 2015, 11, 235-239.	6.5	128
12	Seeded growth of large single-crystal copper foils with high-index facets. Nature, 2020, 581, 406-410.	13.7	116
13	Cation- and pH-Dependent Hydrogen Evolution and Oxidation Reaction Kinetics. JACS Au, 2021, 1, 1674-1687.	3.6	109
14	Weakly perturbative imaging of interfacial water with submolecular resolution by atomic force microscopy. Nature Communications, 2018, 9, 122.	5.8	105
15	Scanning probe microscopy. Nature Reviews Methods Primers, 2021, 1, .	11.8	103
16	Kinetic modulation of graphene growth by fluorine through spatially confined decomposition of metal fluorides. Nature Chemistry, 2019, 11, 730-736.	6.6	82
17	Submolecular control, spectroscopy and imaging of bond-selective chemistry in single functionalized molecules. Nature Chemistry, 2013, 5, 36-41.	6.6	68
18	An unconventional bilayer ice structure on a NaCl(001) film. Nature Communications, 2014, 5, 4056.	5.8	64

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19	Atomic mechanism of polarization-controlled surface reconstruction in ferroelectric thin films. <i>Nature Communications</i> , 2016, 7, 11318.	5.8	61
20	Formation of $\hat{I}\pm$ clusters in dilute neutron-rich matter. <i>Science</i> , 2021, 371, 260-264.	6.0	57
21	The Pentagonal Nature of Self-Assembled Silicon Chains and Magic Clusters on Ag(110). <i>Nano Letters</i> , 2018, 18, 2937-2942.	4.5	52
22	Thickness dependence of surface plasmon damping and dispersion in ultrathin Ag films. <i>Physical Review B</i> , 2005, 72, .	1.1	49
23	Visualizing Eigen/Zundel cations and their interconversion in monolayer water on metal surfaces. <i>Science</i> , 2022, 377, 315-319.	6.0	47
24	Real-Space Imaging of Kondo Screening in a Two-Dimensional O ₂ Lattice. <i>Science</i> , 2011, 333, 324-328.	6.0	46
25	Nanoscale electric-field imaging based on a quantum sensor and its charge-state control under ambient condition. <i>Nature Communications</i> , 2021, 12, 2457.	5.8	46
26	Perspective: Structure and dynamics of water at surfaces probed by scanning tunneling microscopy and spectroscopy. <i>Journal of Chemical Physics</i> , 2016, 145, 160901.	1.2	38
27	Probing Nonequilibrium Dynamics of Photoexcited Polarons on a Metal-Oxide Surface with Atomic Precision. <i>Physical Review Letters</i> , 2020, 124, 206801.	2.9	37
28	Exploiting Two-Dimensional Bi ₂ O ₂ Se for Trace Oxygen Detection. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17938-17943.	7.2	31
29	Atomic-scale investigation of nuclear quantum effects of surface water: Experiments and theory. <i>Progress in Surface Science</i> , 2017, 92, 203-239.	3.8	29
30	Spatial imaging of individual vibronic states in the interior of single molecules. <i>Journal of Chemical Physics</i> , 2011, 135, 014705.	1.2	22
31	Origin of nanoscale potential fluctuations in two-dimensional semiconductors. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	20
32	Thickness dependence of the surface plasmon dispersion in ultrathin aluminum films on silicon. <i>Surface Science</i> , 2006, 600, 4966-4971.	0.8	19
33	Water-solid interfaces probed by high-resolution atomic force microscopy. <i>Surface Science Reports</i> , 2022, 77, 100549.	3.8	18
34	Recent advances in inelastic electron tunneling spectroscopy. <i>Advances in Physics: X</i> , 2017, 2, 907-936.	1.5	16
35	Local engineering of topological phase in monolayer MoS ₂ . <i>Science Bulletin</i> , 2019, 64, 1750-1756.	4.3	16
36	Quantum size effect induced dilute atomic layers in ultrathin Al films. <i>Physical Review B</i> , 2007, 76, .	1.1	14

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37	Symmetry-dependent screening of surface plasmons in ultrathin supported films: The case of Al/Si(111). <i>Physical Review B</i> , 2011, 83, .	1.1	14
38	Atomic-scale imaging of the dissolution of NaCl islands by water at low temperature. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 104001.	0.7	14
39	In Situ Studies on Temperature-Dependent Photocatalytic Reactions of Methanol on TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2019, 123, 9993-9999.	1.5	14
40	Robustness of Bilayer Hexagonal Ice against Surface Symmetry and Corrugation. <i>Physical Review Letters</i> , 2022, 129, .	2.9	14
41	Advances in Atomic Force Microscopy: Weakly Perturbative Imaging of the Interfacial Water. <i>Frontiers in Chemistry</i> , 2019, 7, 626.	1.8	13
42	Active Species in Photocatalytic Reactions of Methanol on TiO ₂ (110) Identified by Surface Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13789-13794.	1.5	11
43	Quantum size effects in the nonmetal to metal transition of two-dimensional Al islands. <i>Physical Review B</i> , 2007, 76, .	1.1	10
44	The collective and quantum nature of proton transfer in the cyclic water tetramer on NaCl(001). <i>Journal of Chemical Physics</i> , 2018, 148, 102329.	1.2	10
45	Reducing the critical thickness of epitaxial Ag film on the Si(111) substrate by introducing a monolayer Al buffer layer. <i>Journal of Applied Physics</i> , 2007, 102, 053504.	1.1	9
46	Engineering Interlayer Electron-Phonon Coupling in WS ₂ /BN Heterostructures. <i>Nano Letters</i> , 2022, 22, 2725-2733.	4.5	7
47	Growing extremely thin bulklike metal film on a semiconductor surface: Monolayer Al(111) on Si(111). <i>Applied Physics Letters</i> , 2007, 91, .	1.5	6
48	Surface alloying effects in the growth of Au on Pb(111) thin film. <i>Surface Science</i> , 2008, 602, 3358-3363.	0.8	6
49	Interaction of surface and interface plasmons in extremely thin Al films on Si(111). <i>Applied Physics Letters</i> , 2013, 102, 051605.	1.5	6
50	Submolecular Insights into Interfacial Water by Hydrogen-Sensitive Scanning Probe Microscopy. <i>Accounts of Chemical Research</i> , 2022, 55, 1680-1692.	7.6	6
51	Real-Space Imaging of Orbital Selectivity on SrTiO ₃ (001) Surface. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37279-37284.	4.0	5
52	Atomic-level characterization of liquid/solid interface. <i>Chinese Physics B</i> , 2020, 29, 116803.	0.7	4
53	Catalystlike behavior of Si adatoms in the growth of monolayer Al film on Si(111). <i>Journal of Chemical Physics</i> , 2010, 133, 014704.	1.2	3
54	Electronically Nonalloyed State of a Statistical Single Atomic Layer Semiconductor Alloy. <i>Nano Letters</i> , 2012, 12, 5845-5849.	4.5	3

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55	Locally probing the screening potential at a metal-semiconductor interface. Physical Review B, 2010, 81, .	1.1	2
56	Effective mass of a two-dimensional $\sqrt{3} \times \sqrt{3}$ Ga single atomic layer on Si(111). Surface Science, 2014, 630, 225-228.	0.8	2
57	Probing the intermolecular coupled vibrations in a water cluster with inelastic electron tunneling spectroscopy. Journal of Chemical Physics, 2020, 152, 234301.	1.2	2
58	Probing the Structure and Dynamics of Interfacial Water with Scanning Tunneling Microscopy and Spectroscopy. Journal of Visualized Experiments, 2018, , .	0.2	1
59	Atomic Insight into the Interfacial Effect on the Molecular Solvation. Journal of Physical Chemistry C, O, , .	1.5	1
60	Atomic-Scale Investigations on Water Science Based on Information Technology. , 2021, , 85-99.		0
61	A qPlus-based scanning probe microscope compatible with optical measurements. Review of Scientific Instruments, 2022, 93, 043701.	0.6	0