

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	Water-solid interfaces probed by high-resolution atomic force microscopy. <i>Surface Science Reports</i> , 2022, 77, 100549.	3.8	18
2	Engineering Interlayer Electron-Phonon Coupling in WS ₂ /BN Heterostructures. <i>Nano Letters</i> , 2022, 22, 2725-2733.	4.5	7
3	A qPlus-based scanning probe microscope compatible with optical measurements. <i>Review of Scientific Instruments</i> , 2022, 93, 043701.	0.6	0
4	Submolecular Insights into Interfacial Water by Hydrogen-Sensitive Scanning Probe Microscopy. <i>Accounts of Chemical Research</i> , 2022, 55, 1680-1692.	7.6	6
5	Visualizing Eigen/Zundel cations and their interconversion in monolayer water on metal surfaces. <i>Science</i> , 2022, 377, 315-319.	6.0	47
6	Robustness of Bilayer Hexagonal Ice against Surface Symmetry and Corrugation. <i>Physical Review Letters</i> , 2022, 129, .	2.9	14
7	Atomic-Scale Investigations on Water Science Based on Information Technology. , 2021, , 85-99.		0
8	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
9	Scanning probe microscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	103
10	Cation- and pH-Dependent Hydrogen Evolution and Oxidation Reaction Kinetics. <i>Jacs Au</i> , 2021, 1, 1674-1687.	3.6	109
11	Formation of H_2 clusters in dilute neutron-rich matter. <i>Science</i> , 2021, 371, 260-264.	6.0	57
12	Atomic imaging of the edge structure and growth of a two-dimensional hexagonal ice. <i>Nature</i> , 2020, 577, 60-63.	13.7	149
13	Surface coordination layer passivates oxidation of copper. <i>Nature</i> , 2020, 586, 390-394.	13.7	154
14	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
15	Seeded growth of large single-crystal copper foils with high-index facets. <i>Nature</i> , 2020, 581, 406-410.	13.7	116
16	Probing the intermolecular coupled vibrations in a water cluster with inelastic electron tunneling spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 152, 234301.	1.2	2
17	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
18	Atomic-level characterization of liquid/solid interface. <i>Chinese Physics B</i> , 2020, 29, 116803.	0.7	4

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19	Kinetic modulation of graphene growth by fluorine through spatially confined decomposition of metal fluorides. <i>Nature Chemistry</i> , 2019, 11, 730-736.	6.6	82
20	Local engineering of topological phase in monolayer MoS ₂ . <i>Science Bulletin</i> , 2019, 64, 1750-1756.	4.3	16
21	Real-Space Imaging of Orbital Selectivity on SrTiO ₃ (001) Surface. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37279-37284.	4.0	5
22	Advances in Atomic Force Microscopy: Weakly Perturbative Imaging of the Interfacial Water. <i>Frontiers in Chemistry</i> , 2019, 7, 626.	1.8	13
23	Epitaxial growth of a 100-square-centimetre single-crystal hexagonal boron nitride monolayer on copper. <i>Nature</i> , 2019, 570, 91-95.	13.7	422
24	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
25	Boundary activated hydrogen evolution reaction on monolayer MoS ₂ . <i>Nature Communications</i> , 2019, 10, 1348.	5.8	263
26	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
27	Weakly perturbative imaging of interfacial water with submolecular resolution by atomic force microscopy. <i>Nature Communications</i> , 2018, 9, 122.	5.8	105
28	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
29	Probing the Structure and Dynamics of Interfacial Water with Scanning Tunneling Microscopy and Spectroscopy. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	1
30	The effect of hydration number on the interfacial transport of sodium ions. <i>Nature</i> , 2018, 557, 701-705.	13.7	205
31	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
32	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
33	Recent advances in inelastic electron tunneling spectroscopy. <i>Advances in Physics: X</i> , 2017, 2, 907-936.	1.5	16
34	Distinct ice patterns on solid surfaces with various wettabilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11285-11290.	3.3	132
35	Argon Plasma Induced Phase Transition in Monolayer MoS ₂ . <i>Journal of the American Chemical Society</i> , 2017, 139, 10216-10219.	6.6	332
36	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

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37	Ultrafast epitaxial growth of metre-sized single-crystal graphene on industrial Cu foil. <i>Science Bulletin</i> , 2017, 62, 1074-1080.	4.3	454
38	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
39	Nuclear quantum effects of hydrogen bonds probed by tip-enhanced inelastic electron tunneling. <i>Science</i> , 2016, 352, 321-325.	6.0	130
40	Atomic mechanism of polarization-controlled surface reconstruction in ferroelectric thin films. <i>Nature Communications</i> , 2016, 7, 11318.	5.8	61
41	Direct visualization of concerted proton tunnelling in a water nanocluster. <i>Nature Physics</i> , 2015, 11, 235-239.	6.5	128
42	An unconventional bilayer ice structure on a NaCl(001) film. <i>Nature Communications</i> , 2014, 5, 4056.	5.8	64
43	Real-space imaging of interfacial water with submolecular resolution. <i>Nature Materials</i> , 2014, 13, 184-189.	13.3	173
44	Effective mass of a two-dimensional $\sqrt{3} \times \sqrt{3}$ Ga single atomic layer on Si(111). <i>Surface Science</i> , 2014, 630, 225-228.	0.8	2
45	Submolecular control, spectroscopy and imaging of bond-selective chemistry in single functionalized molecules. <i>Nature Chemistry</i> , 2013, 5, 36-41.	6.6	68
46	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
47	Electronically Nonalloyed State of a Statistical Single Atomic Layer Semiconductor Alloy. <i>Nano Letters</i> , 2012, 12, 5845-5849.	4.5	3
48	Real-Space Imaging of Kondo Screening in a Two-Dimensional O ₂ Lattice. <i>Science</i> , 2011, 333, 324-328.	6.0	46
49	Spatial imaging of individual vibronic states in the interior of single molecules. <i>Journal of Chemical Physics</i> , 2011, 135, 014705.	1.2	22
50	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
51	Locally probing the screening potential at a metal-semiconductor interface. <i>Physical Review B</i> , 2010, 81, .	1.1	2
52	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
53	Origin of nanoscale potential fluctuations in two-dimensional semiconductors. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	20
54	Surface alloying effects in the growth of Au on Pb(111) thin film. <i>Surface Science</i> , 2008, 602, 3358-3363.	0.8	6

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55	Reducing the critical thickness of epitaxial Ag film on the Si(111) substrate by introducing a monolayer Al buffer layer. Journal of Applied Physics, 2007, 102, 053504.	1.1	9
56	Quantum size effect induced dilute atomic layers in ultrathin Al films. Physical Review B, 2007, 76, .	1.1	14
57	Quantum size effects in the nonmetal to metal transition of two-dimensional Al islands. Physical Review B, 2007, 76, .	1.1	10
58	Growing extremely thin bulklike metal film on a semiconductor surface: Monolayer Al(111) on Si(111). Applied Physics Letters, 2007, 91, .	1.5	6
59	Thickness dependence of the surface plasmon dispersion in ultrathin aluminum films on silicon. Surface Science, 2006, 600, 4966-4971.	0.8	19
60	Thickness dependence of surface plasmon damping and dispersion in ultrathin Ag films. Physical Review B, 2005, 72, .	1.1	49
61	Atomic Insight into the Interfacial Effect on the Molecular Solvation. Journal of Physical Chemistry C, 0, , .	1.5	1