

Aidi Zhao

List of Publications by Year in descending order

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70
papers

3,158
citations

201575

27
h-index

149623

56
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71
all docs

71
docs citations

71
times ranked

4776
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling the Kondo Effect of an Adsorbed Magnetic Ion Through Its Chemical Bonding. <i>Science</i> , 2005, 309, 1542-1544.	6.0	594
2	Epitaxial growth of ultraflat stanene with topological band inversion. <i>Nature Materials</i> , 2018, 17, 1081-1086.	13.3	267
3	Role of point defects on the reactivity of reconstructed anatase titanium dioxide (001) surface. <i>Nature Communications</i> , 2013, 4, 2214.	5.8	184
4	Observation of Photocatalytic Dissociation of Water on Terminal Ti Sites of $\text{TiO}_2(110)-1 \times 1$ Surface. <i>Journal of the American Chemical Society</i> , 2012, 134, 9978-9985.	6.6	160
5	Molecular Oxygen Adsorption Behaviors on the Rutile $\text{TiO}_2(110)-1 \times 1$ Surface: An in Situ Study with Low-Temperature Scanning Tunneling Microscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 2002-2009.	6.6	155
6	Mechanism for Negative Differential Resistance in Molecular Electronic Devices: Local Orbital Symmetry Matching. <i>Physical Review Letters</i> , 2007, 99, 146803.	2.9	150
7	Optimal Electron Doping of a C_{60} Monolayer on Cu(111) via Interface Reconstruction. <i>Physical Review Letters</i> , 2010, 104, 036103.	2.9	104
8	Correlating interfacial octahedral rotations with magnetism in $(\text{LaMnO}_3)_N/(\text{SrTiO}_3)_N$ superlattices. <i>Nature Communications</i> , 2014, 5, 4283.	5.8	103
9	Design and control of electron transport properties of single molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15259-15263.	3.3	88
10	Electronic and Magnetic Properties of Metal Phthalocyanines on Au(111) Surface: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13650-13655.	1.5	81
11	Determining structural and chemical heterogeneities of surface species at the single-bond limit. <i>Science</i> , 2021, 371, 818-822.	6.0	77
12	CO_2 dissociation activated through electron attachment on the reduced rutile $\text{TiO}_2(110)-1 \times 1$ surface. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12470-12475.	1.1	68
13	Half-Metallic Behavior in 2D Transition Metal Dichalcogenides Nanosheets by Dual Native Defects Engineering. <i>Advanced Materials</i> , 2017, 29, 1703123.	11.1	65
14	Evidence of van Hove Singularities in Ordered Grain Boundaries of Graphene. <i>Physical Review Letters</i> , 2014, 112, 226802.	2.9	61
15	Quasi Chiral Phase Separation in a Two-Dimensional Orientationally Disordered System: $\hat{\Delta}$ 6-Nitrospiropyran on Au(111). <i>Journal of the American Chemical Society</i> , 2007, 129, 3857-3862.	6.6	57
16	Molecule-Confined Engineering toward Superconductivity and Ferromagnetism in Two-Dimensional Superlattice. <i>Journal of the American Chemical Society</i> , 2017, 139, 16398-16404.	6.6	54
17	Epitaxial growth of highly strained antimonene on Ag(111). <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	52
18	Two-dimensional graphene-like Xenes as potential topological materials. <i>APL Materials</i> , 2020, 8, .	2.2	46

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19	Surface Landau levels and spin states in bismuth (111) ultrathin films. <i>Nature Communications</i> , 2016, 7, 10814.	5.8	45
20	Kondo effect in single cobalt phthalocyanine molecules adsorbed on Au(111) monoatomic steps. <i>Journal of Chemical Physics</i> , 2008, 128, 234705.	1.2	44
21	Tuning the Doping Types in Graphene Sheets by N Monoelement. <i>Nano Letters</i> , 2018, 18, 386-394.	4.5	44
22	Temperature- and Coverage-Dependent Kinetics of Photocatalytic Reaction of Methanol on TiO ₂ (110)-(1 Å ⁻¹) Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5503-5514.	1.5	43
23	Geometric and electronic structure of aC60monolayer on Ag(100). <i>Physical Review B</i> , 2007, 75, .	1.1	42
24	Adsorption of CO on Rutile TiO ₂ (110)-1 Å ⁻¹ Surface with Preadsorbed O Adatoms. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18222-18227.	1.5	38
25	Periodically Modulated Electronic Properties of the Epitaxial Monolayer Graphene on Ru(0001). <i>Journal of Physical Chemistry C</i> , 2011, 115, 24858-24864.	1.5	36
26	Transition from Semimetal to Semiconductor in ZrTe ₂ Induced by Se Substitution. <i>ACS Nano</i> , 2020, 14, 835-841.	7.3	29
27	Observation of water dissociation on nanometer-sized FeO islands grown on Pt(1 1 1). <i>Chemical Physics Letters</i> , 2010, 500, 76-81.	1.2	28
28	Reaction selectivity of homochiral versus heterochiral intermolecular reactions of prochiral terminal alkynes on surfaces. <i>Nature Communications</i> , 2019, 10, 4122.	5.8	27
29	STM tip-assisted single molecule chemistry. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12428.	1.3	26
30	Understanding the Intrinsic Chemical Activity of Anatase TiO ₂ (001)-(1 Å ⁻¹) Surface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1272-1282.	1.5	25
31	Observation of Hierarchical Chiral Structures in 8-Nitrospiropyran Monolayers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6973-6977.	1.2	23
32	Controlling Electronic States and Transport Properties at the Level of Single Molecules. <i>Advanced Materials</i> , 2010, 22, 1967-1971.	11.1	21
33	Landau Quantization of a Narrow Doubly-Folded Wrinkle in Monolayer Graphene. <i>Nano Letters</i> , 2018, 18, 6710-6718.	4.5	21
34	Detecting surface resonance states of Si(111)-3x3-Ag with a scanning tunneling microscope. <i>Physical Review B</i> , 2004, 70, .	1.1	20
35	Chemisorption-Induced Formation of Biphenylene Dimer on Ag(111). <i>Journal of the American Chemical Society</i> , 2022, 144, 723-732.	6.6	20
36	Molecular molds for regularizing Kondo states at atom/metal interfaces. <i>Nature Communications</i> , 2020, 11, 2566.	5.8	19

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37	Visualizing Elementary Reactions of Methanol by Electrons and Holes on TiO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28805-28814.	1.5	17
38	Ultrathin Van der Waals Antiferromagnet CrTe ₃ for Fabrication of In-plane CrTe ₃ /CrTe ₂ Monolayer Magnetic Heterostructures. <i>Advanced Materials</i> , 2022, 34, e2200236.	11.1	17
39	DETECTING AND MANIPULATING SINGLE MOLECULES WITH STM. <i>Nano</i> , 2006, 01, 15-33.	0.5	14
40	Detecting a Molecule's Surface Hybrid State by an Fe-Coated Tip with a Non-s-Like Orbital. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15603-15606.	1.5	14
41	Negative Differential Resistance in a Hybrid Silicon-Molecular System: Resonance between the Intrinsic Surface-States and the Molecular Orbital. <i>ACS Nano</i> , 2012, 6, 7066-7076.	7.3	14
42	Visualizing Band Profiles of Gate-Tunable Junctions in MoS ₂ /WSe ₂ Heterostructure Transistors. <i>ACS Nano</i> , 2021, 15, 16314-16321.	7.3	14
43	Electrical rectification by selective wave-function coupling in small Ag clusters on $\text{Si}(111)-(7 \times 7)$ surface. <i>Physical Review B</i> , 2010, 81, 111101.	1.1	11
44	Identifying the Numbers of Ag Atoms in Their Nanostructures Grown on a Si(111)-(7 Å × 7) Surface. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3847-3853.	1.5	11
45	Interfacial Polarons in van der Waals Heterojunction of Monolayer SnSe ₂ on SrTiO ₃ (001). <i>Nano Letters</i> , 2020, 20, 8067-8073.	4.5	11
46	Flexible Alkali-Halogen Bonding in Two Dimensional Alkali-Metal Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10808-10814.	2.1	11
47	Orbital-selective single molecule rectifier on graphene-covered Ru(0001) surface. <i>Applied Physics Letters</i> , 2013, 102, 163506.	1.5	10
48	Construction of carbon-based two-dimensional crystalline nanostructure by chemical vapor deposition of benzene on Cu(111). <i>Nanoscale</i> , 2014, 6, 7934-7939.	2.8	10
49	Initial stages of the adsorption of Ge atoms on the Si(111)-(7 Å × 7) surface. <i>Physical Review B</i> , 2006, 74, 041402.	1.1	8
50	Interactions in different domains of truxenone supramolecular assembly on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3980.	1.3	8
51	First-Principles study of two dimensional transition metal phthalocyanine-based metal-organic frameworks in kagome lattice. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 563-571.	0.6	8
52	Fabrication and scanning tunneling microscopy characterization of suspended monolayer graphene on periodic Si nanopillars. <i>Applied Physics Letters</i> , 2013, 102, 201602.	1.5	7
53	Structural and electronic properties of an ordered grain boundary formed by separated (1,0) dislocations in graphene. <i>Nanoscale</i> , 2015, 7, 3055-3059.	2.8	7
54	Engineering hybrid Co-picene structures with variable spin coupling. <i>Applied Physics Letters</i> , 2016, 108, 171601.	1.5	7

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55	Creation of the Dirac Nodal Line by Extrinsic Symmetry Engineering. Nano Letters, 2020, 20, 2157-2162.	4.5	7
56	Identifying site-dependent effects of an extra Co atom on electronic states of single Co-phthalocyanine molecule. Journal of Chemical Physics, 2015, 143, 034701.	1.2	6
57	Probing negative differential resistance on Si(111)-3 \times 3-Ag surface with scanning tunneling microscopy. Applied Physics Letters, 2009, 94, 262108.	1.5	5
58	Adsorption and Self-Assembly of the 2,3,5,6-Tetra(2-pyridyl)pyrazine Nonplanar Molecule on a Au(111) Surface. Journal of Physical Chemistry C, 2016, 120, 6039-6049.	1.5	5
59	Kondo effect of single Co atoms adsorbed on Pb/Si(111) nanoislands. Physical Review B, 2008, 78, .	1.1	4
60	Single-atom protecting group for on-surface synthesis of graphdiyne nanowires. Chinese Journal of Chemical Physics, 2019, 32, 620-624.	0.6	4
61	Realization of Electron Antidoping by Modulating the Breathing Distortion in BaBiO ₃ . Nano Letters, 2021, 21, 3981-3988.	4.5	4
62	Adjustment of electron temperature in ECR microwave plasma. Vacuum, 2003, 70, 499-503.	1.6	2
63	The Kondo tip decorated by the Co atom. Nanotechnology, 2016, 27, 455203.	1.3	2
64	Preserved Kondo effect of small cobalt atomic chains on Ru(0001) surface. New Journal of Physics, 2016, 18, 123011.	1.2	1
65	$\tilde{\epsilon}$ -Electron-Assisted Relaxation of Spin Excited States in Cobalt Phthalocyanine Molecules on Au(111) Surface. Chinese Journal of Chemical Physics, 2017, 30, 161-165.	0.6	1
66	Hidden Order and Haldane-Like Phase in Molecular Chains Assembled from Conformation-Switchable Molecules. ACS Nano, 2018, 12, 6515-6522.	7.3	1
67	Unraveling interfacial strain and interfacial lattice reconstruction mechanism of ultrathin LaMnO ₃ + $\tilde{\nu}$ layers in LaMnO ₃ + $\tilde{\nu}$ /SrTiO ₃ superlattices. Journal of Applied Physics, 2017, 122, 085309.	1.1	0
68	Electron Transport in Single Molecules and Nanostructures. , 2012, , 149-183.		0
69	Imaging Molecular Orbitals of Single Picene Molecules Adsorbed on Cu(111) Surface: a Combined Experimental and Theoretical Study. Chinese Journal of Chemical Physics, 2017, 30, 29-35.	0.6	0
70	Stanene and Plumbene. , 2022, , 49-72.		0