

Aidi Zhao

List of Publications by Year in descending order

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70
papers

3,158
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201575

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71
all docs

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docs citations

71
times ranked

4776
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemisorption-Induced Formation of Biphenylene Dimer on Ag(111). <i>Journal of the American Chemical Society</i> , 2022, 144, 723-732.	6.6	20
2	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
3	Stanene and Plumbene. , 2022, , 49-72.		0
4	Determining structural and chemical heterogeneities of surface species at the single-bond limit. <i>Science</i> , 2021, 371, 818-822.	6.0	77
5	Realization of Electron Antidoping by Modulating the Breathing Distortion in BaBiO ₃ . <i>Nano Letters</i> , 2021, 21, 3981-3988.	4.5	4
6	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
7	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
8	Transition from Semimetal to Semiconductor in ZrTe ₂ Induced by Se Substitution. <i>ACS Nano</i> , 2020, 14, 835-841.	7.3	29
9	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
10	Two-dimensional graphene-like Xenes as potential topological materials. <i>APL Materials</i> , 2020, 8, .	2.2	46
11	Creation of the Dirac Nodal Line by Extrinsic Symmetry Engineering. <i>Nano Letters</i> , 2020, 20, 2157-2162.	4.5	7
12	Molecular molds for regularizing Kondo states at atom/metal interfaces. <i>Nature Communications</i> , 2020, 11, 2566.	5.8	19
13	Reaction selectivity of homochiral versus heterochiral intermolecular reactions of prochiral terminal alkynes on surfaces. <i>Nature Communications</i> , 2019, 10, 4122.	5.8	27
14	Single-atom protecting group for on-surface synthesis of graphdiyne nanowires. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 620-624.	0.6	4
15	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
16	Epitaxial growth of highly strained antimonene on Ag(111). <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	52
17	Tuning the Doping Types in Graphene Sheets by N Monoelement. <i>Nano Letters</i> , 2018, 18, 386-394.	4.5	44
18	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

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19	Epitaxial growth of ultraflat stanene with topological band inversion. <i>Nature Materials</i> , 2018, 17, 1081-1086.	13.3	267
20	Landau Quantization of a Narrow Doubly-Folded Wrinkle in Monolayer Graphene. <i>Nano Letters</i> , 2018, 18, 6710-6718.	4.5	21
21	Hidden Order and Haldane-Like Phase in Molecular Chains Assembled from Conformation-Switchable Molecules. <i>ACS Nano</i> , 2018, 12, 6515-6522.	7.3	1
22	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
23	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
24	Half-Metallic Behavior in 2D Transition Metal Dichalcogenides Nanosheets by Dual-Defects Engineering. <i>Advanced Materials</i> , 2017, 29, 1703123.	11.1	65
25	Unraveling interfacial strain and interfacial lattice reconstruction mechanism of ultrathin LaMnO ₃ ⁺ /layers in LaMnO ₃ ⁺ /SrTiO ₃ superlattices. <i>Journal of Applied Physics</i> , 2017, 122, 085309.	1.1	0
26	Electron-Assisted Relaxation of Spin Excited States in Cobalt Phthalocyanine Molecules on Au(111) Surface. <i>Chinese Journal of Chemical Physics</i> , 2017, 30, 161-165.	0.6	1
27	Imaging Molecular Orbitals of Single Picene Molecules Adsorbed on Cu(111) Surface: a Combined Experimental and Theoretical Study. <i>Chinese Journal of Chemical Physics</i> , 2017, 30, 29-35.	0.6	0
28	Preserved Kondo effect of small cobalt atomic chains on Ru(0001) surface. <i>New Journal of Physics</i> , 2016, 18, 123011.	1.2	1
29	Engineering hybrid Co-picene structures with variable spin coupling. <i>Applied Physics Letters</i> , 2016, 108, 171601.	1.5	7
30	The Kondo tip decorated by the Co atom. <i>Nanotechnology</i> , 2016, 27, 455203.	1.3	2
31	Adsorption and Self-Assembly of the 2,3,5,6-Tetra(2-pyridyl)pyrazine Nonplanar Molecule on a Au(111) Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6039-6049.	1.5	5
32	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
33	Surface Landau levels and spin states in bismuth (111) ultrathin films. <i>Nature Communications</i> , 2016, 7, 10814.	5.8	45
34	Identifying site-dependent effects of an extra Co atom on electronic states of single Co-phthalocyanine molecule. <i>Journal of Chemical Physics</i> , 2015, 143, 034701.	1.2	6
35	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
36	Correlating interfacial octahedral rotations with magnetism in (LaMnO ₃ ⁺) _N /(SrTiO ₃) _N superlattices. <i>Nature Communications</i> , 2014, 5, 4283.	5.8	103

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37	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
38	Evidence of van Hove Singularities in Ordered Grain Boundaries of Graphene. <i>Physical Review Letters</i> , 2014, 112, 226802.	2.9	61
39	STM tip-assisted single molecule chemistry. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12428.	1.3	26
40	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
41	Role of point defects on the reactivity of reconstructed anatase titanium dioxide (001) surface. <i>Nature Communications</i> , 2013, 4, 2214.	5.8	184
42	Orbital-selective single molecule rectifier on graphene-covered Ru(0001) surface. <i>Applied Physics Letters</i> , 2013, 102, 163506.	1.5	10
43	Interactions in different domains of truxenone supramolecular assembly on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3980.	1.3	8
44	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
45	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
46	Electron Transport in Single Molecules and Nanostructures. , 2012, , 149-183.		0
47	Identifying the Numbers of Ag Atoms in Their Nanostructures Grown on a $\text{Si}(111)-(7 \times 7)$ Surface. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3847-3853.	1.5	11
48	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
49	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
50	CO dissociation activated through electron attachment on the reduced rutile $\text{TiO}_2(110)-1 \times 1$ surface. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24864-24870.	1.1	68
51	Controlling Electronic States and Transport Properties at the Level of Single Molecules. <i>Advanced Materials</i> , 2010, 22, 1967-1971.	11.1	21
52	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
53	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, 115407.	1.1	11
54	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

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55	Adsorption of CO on Rutile TiO ₂ (110)-1 Å ⁻¹ Surface with Preadsorbed O Adatoms. Journal of Physical Chemistry C, 2010, 114, 18222-18227.	1.5	38
56	Probing negative differential resistance on Si(111)-3Å ⁻³ -Ag surface with scanning tunneling microscopy. Applied Physics Letters, 2009, 94, 262108.	1.5	5
57	Design and control of electron transport properties of single molecules. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15259-15263.	3.3	88
58	Electronic and Magnetic Properties of Metal Phthalocyanines on Au(111) Surface: A First-Principles Study. Journal of Physical Chemistry C, 2008, 112, 13650-13655.	1.5	81
59	Detecting a Molecule's Surface Hybrid State by an Fe-Coated Tip with a Non-s-Like Orbital. Journal of Physical Chemistry C, 2008, 112, 15603-15606.	1.5	14
60	Kondo effect in single cobalt phthalocyanine molecules adsorbed on Au(111) monoatomic steps. Journal of Chemical Physics, 2008, 128, 234705.	1.2	44
61	Kondo effect of single Co atoms adsorbed on Pb/Si(111) nanoislands. Physical Review B, 2008, 78, .	1.1	4
62	Geometric and electronic structure of aC60monolayer on Ag(100). Physical Review B, 2007, 75, .	1.1	42
63	Observation of Hierarchical Chiral Structures in 8-Nitrospiropyran Monolayers. Journal of Physical Chemistry B, 2007, 111, 6973-6977.	1.2	23
64	Mechanism for Negative Differential Resistance in Molecular Electronic Devices: Local Orbital Symmetry Matching. Physical Review Letters, 2007, 99, 146803.	2.9	150
65	Quasi Chiral Phase Separation in a Two-Dimensional Orientationally Disordered System: 6-Nitrospiropyran on Au(111). Journal of the American Chemical Society, 2007, 129, 3857-3862.	6.6	57
66	Initial stages of the adsorption of Ge atoms on theSi(111) (7Å ⁻⁷) surface. Physical Review B, 2006, 74, .	1.1	8
67	DETECTING AND MANIPULATING SINGLE MOLECULES WITH STM. Nano, 2006, 01, 15-33.	0.5	14
68	Controlling the Kondo Effect of an Adsorbed Magnetic Ion Through Its Chemical Bonding. Science, 2005, 309, 1542-1544.	6.0	594
69	Detecting surface resonance states ofSi(111) (3Å ⁻³) Agwith a scanning tunneling microscope. Physical Review B, 2004, 70, .	1.1	20
70	Adjustment of electron temperature in ECR microwave plasma. Vacuum, 2003, 70, 499-503.	1.6	2