Yu-Yang Zhang

List of Publications by Year
in descending order

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112 papers	4,535 citations	108046 37 h-index	120465 65 g-index
115 all docs	115 docs citations	115 times ranked	8761 citing authors

#	Article	IF	Citations
1	Intrinsically scale-free ferroelectricity in two-dimensional M2X2Y6. Nano Research, 2022, 15, 3704-3710.	5.8	11
2	Structures and electronic properties of functional molecules on metal substrates: From single molecule to selfâ€assemblies. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, e1591.	6.2	3
3	Intrinsically Honeycombâ€Patterned Hydrogenated Graphene. Small, 2022, 18, e2102687.	5.2	3
4	Observation of an Incommensurate Charge Density Wave in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>TiSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mn>1</mml:mn><mml:mn>1</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overl 2022, 128, 026401.	2.9	9
5	Research progress of novel properties in several van der Waals ferroelectric materials. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 127305.	0.2	1
6	Line defects in monolayer TiSe2 with adsorption of Pt atoms potentially enable excellent catalytic activity. Nano Research, 2022, 15, 4687-4692.	5.8	9
7	Intrinsically patterned corrals in monolayer Ag5Se2 and selective molecular co-adsorption. Nano Research, 2022, 15, 6730-6735.	5.8	3
8	Probing light mediators and (g â˜’ 2)Î¼ through detection of coherent elastic neutrino nucleus scattering at COHERENT. Journal of High Energy Physics, 2022, 2022, .	1.6	20
9	Thermal transport of monolayer amorphous carbon and boron nitride. Applied Physics Letters, 2022, 120, .	1.5	3
10	First principles calculation of two-dimensional materials at an atomic scale. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 027301.	0.2	3
11	The As-surface of an iron-based superconductor CaKFe4As4. Nano Research, 2021, 14, 3921-3925.	5.8	6
12	Observation of magnetic adatom-induced Majorana vortex and its hybridization with field-induced Majorana vortex in an iron-based superconductor. Nature Communications, 2021, 12, 1348.	5.8	33
13	Database Construction for Two-Dimensional Material-Substrate Interfaces. Chinese Physics Letters, 2021, 38, 066801.	1.3	5
14	Electronic structures of vacancies in Co3Sn2S2 *. Chinese Physics B, 2021, 30, 077102.	0.7	1
15	Novel two-dimensional transition metal chalcogenides created by epitaxial growth. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	3
16	New insights into nuclear physics and weak mixing angle using electroweak probes. Physical Review C, 2021, 104, .	1.1	17
17	Nearly quantized conductance plateau of vortex zero mode in an iron-based superconductor. Science, 2020, 367, 189-192.	6.0	172
18	Direct Visualization of Hydrogen-Transfer Intermediate States by Scanning Tunneling Microscopy. Journal of Physical Chemistry Letters, 2020, 11, 1536-1541.	2.1	3

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19	Insulating SiO₂ under Centimeter-Scale, Single-Crystal Graphene Enables Electronic-Device Fabrication. Nano Letters, 2020, 20, 8584-8591.	4.5	19
20	Fabrication and manipulation of nanosized graphene homojunction with atomically-controlled boundaries. Nano Research, 2020, 13, 3286-3291.	5.8	3
21	Localized spin-orbit polaron in magnetic Weyl semimetal Co3Sn2S2. Nature Communications, 2020, 11, 5613.	5.8	53
22	Anisotropic High Carrier Mobilities of One-Third-Hydrogenated Group-V Elemental Monolayers. Journal of Physical Chemistry C, 2020, 124, 12628-12635.	1.5	1
23	Thickness-dependent magnetic order and phase transition in V₅S₈*. Chinese Physics B, 2020, 29, 077504.	0.7	5
24	Sizable Band Gap in Epitaxial Bilayer Graphene Induced by Silicene Intercalation. Nano Letters, 2020, 20, 2674-2680.	4.5	23
25	Airâ€stable Monolayer Cu₂Se Exhibits a Purely Thermal Structural Phase Transition. Advanced Materials, 2020, 32, e1908314.	11.1	26
26	Prediction of structured void-containing 1T-PtTe₂ monolayer with potential catalytic activity for hydrogen evolution reaction*. Chinese Physics B, 2020, 29, 058104.	0.7	8
27	Tuning the Catalytic Activity of a Quantum Nutcracker for Hydrogen Dissociation. Surfaces, 2020, 3, 40-47.	1.0	2
28	Integration of graphene and two-dimensional ferroelectrics: properties and related functional devices. Nanoscale Horizons, 2020, 5, 1303-1308.	4.1	12
29	Experimental Synthesis of Strained Monolayer Silver Arsenide on Ag(111) Substrates. Chinese Physics Letters, 2020, 37, 068103.	1.3	10
30	Unusual anisotropic thermal expansion in multilayer SnSe leads to positive-to-negative crossover of Poisson's ratio. Applied Physics Letters, 2020, 116, 083101.	1.5	2
31	Visualizing Anisotropic Oxygen Diffusion in Ceria under Activated Conditions. Physical Review Letters, 2020, 124, 056002.	2.9	12
32	Quantum anomalous Hall effect in two-dimensional Cu-dicyanobenzene coloring-triangle lattice. Nano Research, 2020, 13, 1571-1575.	5.8	14
33	Epitaxial synthesis and electronic properties of monolayer Pd₂Se₃*. Chinese Physics B, 2020, 29, 098102.	0.7	7
34	Two-Dimensional Crystals: Graphene, Silicene, Germanene, and Stanene. Springer Handbooks, 2020, , 243-266.	0.3	0
35	Tunable giant magnetoresistance in a single-molecule junction. Nature Communications, 2019, 10, 3599.	5.8	50
36	Fabrication of large-scale graphene/2D-germanium heterostructure by intercalation. Chinese Physics B, 2019, 28, 078103.	0.7	6

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37	Centimeter-scale, single-crystalline, AB-stacked bilayer graphene on insulating substrates. 2D Materials, 2019, 6, 045044.	2.0	11
38	Atomically precise, custom-design origami graphene nanostructures. Science, 2019, 365, 1036-1040.	6.0	156
39	Low-temperature growth of large-scale, single-crystalline graphene on Ir(111)*. Chinese Physics B, 2019, 28, 056107.	0.7	9
40	Band engineering of B 2 H 2 nanoribbons. Chinese Physics B, 2019, 28, 046803.	0.7	12
41	Spectroscopic signatures of edge states in hexagonal boron nitride. Nano Research, 2019, 12, 1663-1667.	5.8	7
42	Direct Cation Exchange in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></r via Recombination-Enhanced Migration. Physical Review Letters, 2019, 122, 106101.	2.9	21
43	Spontaneous Formation of 1D Pattern in Monolayer VSe₂ with Dispersive Adsorption of Pt Atoms for HER Catalysis. Nano Letters, 2019, 19, 4897-4903.	4.5	42
44	Recovery of the Dirac states of graphene by intercalating two-dimensional traditional semiconductors. Journal of Physics Condensed Matter, 2019, 31, 194001.	0.7	8
45	Orbital design of topological insulators from two-dimensional semiconductors. Nanoscale, 2019, 11, 22743-22747.	2.8	11
46	Quantum nutcracker for near-room-temperature H2 dissociation. Science Bulletin, 2019, 64, 4-7.	4.3	3
47	Barrierless On-Surface Metal Incorporation in Phthalocyanine-Based Molecules. Journal of Physical Chemistry C, 2018, 122, 6678-6683.	1.5	11
48	Average CsI Neutron Density Distribution from COHERENT Data. Physical Review Letters, 2018, 120, 072501.	2.9	84
49	Epitaxial Growth of Honeycomb Monolayer CuSe with Dirac Nodal Line Fermions. Advanced Materials, 2018, 30, e1707055.	11.1	110
50	Recovery of edge states of graphene nanoislands on an iridium substrate by silicon intercalation. Nano Research, 2018, 11, 3722-3729.	5.8	10
51	Mo-Terminated Edge Reconstructions in Nanoporous Molybdenum Disulfide Film. Nano Letters, 2018, 18, 482-490.	4.5	105
52	Dislocation-driven growth of two-dimensional lateral quantum-well superlattices. Science Advances, 2018, 4, eaap9096.	4.7	38
53	Band engineering of double-wall Mo-based hybrid nanotubes. Chinese Physics B, 2018, 27, 076104.	0.7	4
54	Stable Silicene in Graphene/Silicene Van der Waals Heterostructures. Advanced Materials, 2018, 30, e1804650.	11.1	86

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55	Rheniumâ€Doped and Stabilized MoS₂ Atomic Layers with Basalâ€Plane Catalytic Activity. Advanced Materials, 2018, 30, e1803477.	11.1	164
56	Construction of bilayer PdSe2 on epitaxial graphene. Nano Research, 2018, 11, 5858-5865.	5.8	84
57	Water wettability of graphene: interplay between the interfacial water structure and the electronic structure. RSC Advances, 2018, 8, 16918-16926.	1.7	24
58	Fabrication of Millimeterâ€Scale, Singleâ€Crystal Oneâ€Thirdâ€Hydrogenated Graphene with Anisotropic Electronic Properties. Advanced Materials, 2018, 30, 1801838.	11.1	19
59	Epitaxial growth and physical properties of 2D materials beyond graphene: from monatomic materials to binary compounds. Chemical Society Reviews, 2018, 47, 6073-6100.	18.7	97
60	Chemistry of 4-[(4-bromophenyl)ethynyl]pyridine at metal surfaces studied by STM. Chemical Communications, 2018, 54, 9305-9308.	2.2	23
61	Tuning the morphology of chevron-type graphene nanoribbons by choice of annealing temperature. Nano Research, 2018, 11, 6190-6196.	5.8	20
62	High quality PdTe2 thin films grown by molecular beam epitaxy. Chinese Physics B, 2018, 27, 086804.	0.7	39
63	Dislocation-Driven Growth of Two-Dimensional Lateral Quantum Well Superlattices. Microscopy and Microanalysis, 2018, 24, 88-89.	0.2	0
64	Electronic properties of silicene in BN/silicene van der Waals heterostructures. Chinese Physics B, 2018, 27, 077302.	0.7	9
65	The construction and structure-property manipulation of “small-molecule machines”. Chinese Science Bulletin, 2018, 63, 1255-1264.	0.4	2
66	Sequence of Silicon Monolayer Structures Grown on a Ru Surface: from a Herringbone Structure to Silicene. Nano Letters, 2017, 17, 1161-1166.	4.5	86
67	Defect-mediated leakage in lithium intercalated bilayer graphene. AIP Advances, 2017, 7, .	0.6	5
68	Molecular Beam Epitaxy of Highly Crystalline Monolayer Molybdenum Disulfide on Hexagonal Boron Nitride. Journal of the American Chemical Society, 2017, 139, 9392-9400.	6.6	167
69	Direct measurements of conductivity and mobility in millimeter-sized single-crystalline graphene via van der Pauw geometry. Chinese Physics B, 2017, 26, 066801.	0.7	14
70	Intrinsically patterned two-dimensional materials for selective adsorption of molecules andÂnanoclusters. Nature Materials, 2017, 16, 717-721.	13.3	150
71	From bidirectional rectifier to polarity-controllable transistor in black phosphorus by dual gate modulation. 2D Materials, 2017, 4, 025056.	2.0	7
72	In situ atomic-scale observation of reversible sodium ions migration in layered metal dichalcogenide SnS2 nanostructures. Nano Energy, 2017, 32, 302-309.	8.2	69

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73	Surface State Mediated Interlayer Excitons in a 2D Nonlayeredâ€“Layered Semiconductor Heterojunction. Advanced Electronic Materials, 2017, 3, 1700373.	2.6	15
74	Formation of Single-atom-thick Copper Oxide Monolayers. Microscopy and Microanalysis, 2017, 23, 1684-1685.	0.2	1
75	Evidence for Ultralow-Energy Vibrations in Large Organic Molecules. Nano Letters, 2017, 17, 4929-4933.	4.5	11
76	Design of Optimally Stable Molecular Coatings for Fe-Based Nanoparticles in Aqueous Environments. ACS Omega, 2017, 2, 4480-4487.	1.6	3
77	Direct Four-Probe Measurement of Grain-Boundary Resistivity and Mobility in Millimeter-Sized Graphene. Nano Letters, 2017, 17, 5291-5296.	4.5	59
78	Sulfur-doped graphene nanoribbons with a sequence of distinct band gaps. Nano Research, 2017, 10, 3377-3384.	5.8	44
79	Unsupported single-atom-thick copper oxide monolayers. 2D Materials, 2017, 4, 011001.	2.0	44
80	Exchange of Re and Mo atoms in MoS2 driven by Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 1702-1703.	0.2	0
81	Properties of Hydrogenated Nanoporous SiC: An Ab Initio Study. Journal of Nanomaterials, 2017, 2017, 1-6.	1.5	5
82	Column-by-column observation of dislocation motion in CdTe: Dynamic scanning transmission electron microscopy. Applied Physics Letters, 2016, 109, .	1.5	6
83	High-Resolution Tracking Asymmetric Lithium Insertion and Extraction and Local Structure Ordering in SnS₂. Nano Letters, 2016, 16, 5582-5588.	4.5	58
84	Introduction of Interfacial Charges to Black Phosphorus for a Family of Planar Devices. Nano Letters, 2016, 16, 6870-6878.	4.5	69
85	Structural Flexibility and Alloying in Ultrathin Transition-Metal Chalcogenide Nanowires. ACS Nano, 2016, 10, 2782-2790.	7.3	53
86	Microscopic origin of chiral shape induction in achiral crystals. Nature Chemistry, 2016, 8, 326-330.	6.6	68
87	Ferromagnetism and perfect spin filtering in transition-metal-doped graphyne nanoribbons. Physical Review B, 2015, 92, .	1.1	39
88	Direct observation of oxygen-vacancy-enhanced polarization in a SrTiO3-buffered ferroelectric BaTiO3 film on GaAs. Applied Physics Letters, 2015, 107, .	1.5	23
89	Monolayer PtSe₂, a New Semiconducting Transition-Metal-Dichalcogenide, Epitaxially Grown by Direct Selenization of Pt. Nano Letters, 2015, 15, 4013-4018.	4.5	560
90	The observation of square ice in graphene questioned. Nature, 2015, 528, E1-E2.	13.7	95

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91	Atomic-Scale Probing of the Dynamics of Sodium Transport and Intercalation-Induced Phase Transformations in MoS₂. ACS Nano, 2015, 9, 11296-11301.	7.3	167
92	Oxygen Disorder, a Way to Accommodate Large Epitaxial Strains in Oxides. Advanced Materials Interfaces, 2015, 2, 1500344.	1.9	19
93	Magnetic anisotropy of van der Waals absorbed iron(II) phthalocyanine layer on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	1.1	10
94	Graphene cover-promoted metal-catalyzed reactions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17023-17028.	3.3	183
95	Direct observation of Pt nanocrystal coalescence induced by electron-excitation-enhanced van der Waals interactions. Nano Research, 2014, 7, 308-314.	5.8	22
96	Kondo Effect of Cobalt Adatoms on a Graphene Monolayer Controlled by Substrate-Induced Ripples. Nano Letters, 2014, 14, 4011-4015.	4.5	60
97	Thermally Controlled Adenine Dimer Chain Rotation on Cu(110): The Critical Role of van der Waals Interactions. Journal of Physical Chemistry C, 2014, 118, 6278-6282.	1.5	7
98	Impact of heterocirculene molecular symmetry upon two-dimensional crystallization. Scientific Reports, 2014, 4, 5415.	1.6	13
99	Deep electron traps and origin of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-type conductivity in the earth-abundant solar-cell material Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>ZnSnS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	1.1	110
100	Atomic and electronic structures of single-layer FeSe on SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(001): The role of oxygen deficiency. Physical Review B, 2013, 87, .	1.1	86
101	Electronic structures and vibrational properties of coronene on Ru(0001): first-principles study. Chinese Physics B, 2012, 21, 036801.	0.7	4
102	Organic salts as super-high rate capability materials for lithium-ion batteries. Applied Physics Letters, 2012, 100, .	1.5	33
103	Identifying Multiple Configurations of Complex Molecules on Metal Surfaces. Small, 2012, 8, 796-806.	5.2	5
104	Spatial imaging of individual vibronic states in the interior of single molecules. Journal of Chemical Physics, 2011, 135, 014705.	1.2	22
105	High resolution scanning-tunneling-microscopy imaging of individual molecular orbitals by eliminating the effect of surface charge. Surface Science, 2011, 605, 415-418.	0.8	27
106	Binding configuration, electronic structure, and magnetic properties of metal phthalocyanines on a Au(111) surface studied withab initiocalculations. Physical Review B, 2011, 84, .	1.1	66
107	Identifying Multiple Configurations of Complex Molecules in Dynamical Processes: Time Resolved Tunneling Spectroscopy and Density Functional Theory Calculation. Physical Review Letters, 2010, 104, 166101.	2.9	24
108	Mapping antibonding electron states of a Pb adatom on Pb(111). Physical Review B, 2010, 81, .	1.1	12

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109	Diffusivity Control in Molecule-on-Metal Systems Using Electric Fields. Nano Letters, 2010, 10, 1184-1188.	4.5	64
110	Polymorphism and chiral expression in two-dimensional subphthalocyanine crystals on Au(111). Physical Chemistry Chemical Physics, 2010, 12, 1318-1322.	1.3	40
111	Electrostatic field effect on molecular structures at metal surfaces. Surface Science, 2009, 603, 2815-2819.	0.8	13
112	Constructing an Array of Anchored Single-Molecule Rotors on Gold Surfaces. Physical Review Letters, 2008, 101, 197209.	2.9	127