

Yi Zhang

List of Publications by Year in descending order

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papers

70,348
citations

168829

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63
times ranked

68428
citing authors

#	ARTICLE	IF	CITATIONS
1	Epitaxial Growth of Monolayer SnSe ₂ Films on Gd-Intercalated Quasi-Free-Standing Monolayer Graphene with Enhanced Interface Adsorption. Journal of Physical Chemistry C, 2022, 126, 5751-5758.	1.5	2
2	Thickness-dependent structural phase transition and self-intercalation of two-dimensional ferromagnetic chromium telluride thin films. Applied Physics Letters, 2022, 120, 261602.	1.5	3
3	Infrared study of the multiband low-energy excitations of the topological antiferromagnet $MnBi_2$ Physical Review B, 2021, 103, .	1.1	13
4	Quantum-limit Hall effect with large carrier density in topological semimetals. Physical Review B, 2021, 103, .	1.1	1
5	Surface etching during epitaxial h-BN growth on graphene. APL Materials, 2021, 9, 071107.	2.2	1
6	Cycling Fermi arc electrons with Weyl orbits. Nature Reviews Physics, 2021, 3, 660-670.	11.9	17
7	Charge transfer between the epitaxial monolayer WSe ₂ films and graphene substrates. Applied Physics Letters, 2021, 119, .	1.5	1
8	Direct Observation of Global Elastic Intervalley Scattering Induced by Impurities on Graphene. Nano Letters, 2021, 21, 8258-8265.	4.5	9
9	Epitaxial Growth of Single-Phase 1T' WSe ₂ Monolayer with Assistance of Enhanced Interface Interaction. Advanced Materials, 2021, 33, e2004930.	11.1	28
10	Band-selective gap opening by a C4-symmetric order in a proximity-coupled heterostructure Sr ₂ VO ₃ FeAs. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2105190118.	3.3	1
11	Charge Density Wave and Electron-Phonon Interaction in Epitaxial Monolayer NbSe ₂ Films. Chinese Physics Letters, 2021, 38, 107101.	1.3	9
12	Epitaxial Growth of Uniform Single-Layer and Bilayer Graphene with Assistance of Nitrogen Plasma. Nanomaterials, 2021, 11, 3217.	1.9	5
13	Observations of nodal lines in the topological semimetal ZrSnTe. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	5
14	Proton-assisted growth of ultra-flat graphene films. Nature, 2020, 577, 204-208.	13.7	111
15	Thickness-dependent magnetotransport properties in 1T VSe ₂ single crystals prepared by chemical vapor deposition. Nanotechnology, 2020, 31, 145712.	1.3	17
16	Direct observation of hidden spin polarization in H_2 Physical Review B, 2020, 101, .	1.1	18
17	Band engineering in epitaxial monolayer transition metal dichalcogenides alloy Mo _{1-x} W _x Se ₂ thin films. Applied Physics Letters, 2020, 116, .	1.5	8
18	The discovery of dynamic chiral anomaly in a Weyl semimetal NbAs. Nature Communications, 2020, 11, 1259.	5.8	38

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19	Linear and nonlinear optical responses in the chiral multifold semimetal RhSi. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	50
20	Difference frequency generation in topological semimetals. <i>Physical Review Research</i> , 2020, 2, .	1.3	51
21	Locally self-consistent embedding approach for disordered electronic systems. <i>Physical Review B</i> , 2019, 100, .	1.1	1
22	Intrinsic magnetic topological insulator phases in the Sb doped MnBi ₂ Te ₄ bulks and thin flakes. <i>Nature Communications</i> , 2019, 10, 4469.	5.8	212
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	Growth and Thermo-driven Crystalline Phase Transition of Metastable Monolayer 1Tâ€²-WSe ₂ Thin Film. <i>Scientific Reports</i> , 2019, 9, 2685.	1.6	19
25	Electronic and magnetic properties of MoS ₂ monolayers with antisite defects. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 131, 119-124.	1.9	15
26	Quantum Hall effect based on Weyl orbits in Cd ₃ As ₂ . <i>Nature</i> , 2019, 565, 331-336.	13.7	194
27	Formation of a monolayer h-BN nanomesh on Rh (111) studied using in-situ STM. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	2.0	4
28	Tailoring Mo(S,Se) ₂ structure for high efficient Cu ₂ ZnSn(S,Se) ₄ solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 176, 302-309.	3.0	37
29	Band Structure Perfection and Superconductivity in Typeâ€” Dirac Semimetal Ir_{1-x}Pt_x/Te₂. <i>Advanced Materials</i> , 2018, 30, e1801556.	11.1	47
30	Observation of topologically protected states at crystalline phase boundaries in single-layer WSe ₂ . <i>Nature Communications</i> , 2018, 9, 3401.	5.8	107
31	ARPES study of the epitaxially grown topological crystalline insulator SnTe(111). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 219, 35-40.	0.8	8
32	Evolution of the Valley Position in Bulk Transition-Metal Chalcogenides and Their Monolayer Limit. <i>Nano Letters</i> , 2016, 16, 4738-4745.	4.5	80
33	Observation of unusual topological surface states in half-Heusler compounds LnPtBi (Ln=Lu, Y). <i>Nature Communications</i> , 2016, 7, 12924.	5.8	114
34	Charge density wave order in 1D mirror twin boundaries of single-layer MoSe ₂ . <i>Nature Physics</i> , 2016, 12, 751-756.	6.5	209
35	Spin-resolved photoemission study of epitaxially grown MoSe₂ and WSe₂ thin films. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 454001.	0.7	30
36	Selenium capped monolayer NbSe₂ for twoâ€”dimensional superconductivity studies. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2396-2399.	0.7	17

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37	Electronic Structure, Surface Doping, and Optical Response in Epitaxial WSe ₂ Thin Films. Nano Letters, 2016, 16, 2485-2491.	4.5	147
38	Evolution of the Fermi surface of Weyl semimetals in the transition metal pnictide family. Nature Materials, 2016, 15, 27-31.	13.3	245
39	Characterization of collective ground states in single-layer NbSe ₂ . Nature Physics, 2016, 12, 92-97.	6.5	536
40	Charge density wave transition in single-layer titanium diselenide. Nature Communications, 2015, 6, 8943.	5.8	208
41	Probing the Role of Interlayer Coupling and Coulomb Interactions on Electronic Structure in Few-Layer MoSe ₂ Nanostructures. Nano Letters, 2015, 15, 2594-2599.	4.5	136
42	Weyl semimetal phase in the non-centrosymmetric compound TaAs. Nature Physics, 2015, 11, 728-732.	6.5	796
43	Molecular beam epitaxial growth of a three-dimensional topological Dirac semimetal Na ₃ Bi. Applied Physics Letters, 2014, 105, .	1.5	31
44	A stable three-dimensional topological Dirac semimetal Cd ₃ As ₂ . Nature Materials, 2014, 13, 677-681.	13.3	1,242
45	Direct observation of the transition from indirect to direct bandgap in atomically thin epitaxial MoSe ₂ . Nature Nanotechnology, 2014, 9, 111-115.	15.6	1,129
46	Discovery of a Three-Dimensional Topological Dirac Semimetal, Na ₃ Bi. Science, 2014, 343, 864-867.	6.0	1,889
47	Giant bandgap renormalization and excitonic effects in a monolayer transition metal dichalcogenide semiconductor. Nature Materials, 2014, 13, 1091-1095.	13.3	1,470
48	Electron interaction-driven insulating ground state in Bi ₂ Se ₃ . Nature Materials, 2010, 9, 105-108.	1.1	226
49	Crossover of the three-dimensional topological insulator Bi ₂ Se ₃ to the two-dimensional limit. Nature Physics, 2010, 6, 584-588.	6.5	1,227
50	Atomic-Scale Study of Ge-Induced Incommensurate Phases on Si(111). Chinese Physics Letters, 2010, 27, 026802.	1.3	1
51	Topological insulator Bi ₂ Se ₃ thin films grown on double-layer graphene by molecular beam epitaxy. Applied Physics Letters, 2010, 97, .	1.5	154
52	Band structure and Fermi surface of atomically uniform lead films. New Journal of Physics, 2010, 12, 113034.	1.2	1
53	Doping effects of Sb and Pb in epitaxial topological insulator Bi ₂ Se ₃ thin films: An <i>in situ</i> angle-resolved photoemission spectroscopy study. Applied Physics Letters, 2010, 97, .	1.5	43
54	Self-Assembled Pb Nanostructures on Si(111) Surfaces: From Nanowires to Nanorings. Advanced Materials, 2009, 21, 4609-4613.	11.1	5

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55	Studies of synthesizing behaviors and superconductivity of sol-gel YBa ₂ Cu ₃ O _{7-x} samples in flowing oxygen atmosphere. <i>Frontiers of Physics in China</i> , 2008, 3, 55-60.	1.0	1
56	Primary Role of the Barely Occupied States in the Charge Density Wave Formation of NbSe_2 . <i>Physical Review Letters</i> , 2008, 101, 226406.	2.9	57
57	Room-Temperature Quantum Hall Effect in Graphene. <i>Science</i> , 2007, 315, 1379-1379.	6.0	2,662
58	Electric Field Effect in Atomically Thin Carbon Films. <i>Science</i> , 2004, 306, 666-669.	6.0	56,177
59	Selectable Growth and Electronic Structures of Monolayer TiVSe_2 and V_5Se_8 Films on Bilayer Graphene. <i>Physica Status Solidi - Rapid Research Letters</i> , 0, , 2100601.	1.2	2