

Jian Wang

List of Publications by Year in descending order

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79
papers

3,463
citations

136950

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144013

57
g-index

79
all docs

79
docs citations

79
times ranked

4274
citing authors

#	ARTICLE	IF	CITATIONS
1	Signatures of a strange metal in a bosonic system. <i>Nature</i> , 2022, 601, 205-210.	27.8	27
2	Recent progress of two-dimensional metallic transition metal dichalcogenides: Syntheses, physical properties, and applications. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	13
3	Orbital-Selective High-Temperature Cooper Pairing Developed in the Two-Dimensional Limit. <i>Nano Letters</i> , 2022, , .	9.1	4
4	Magnetization-tuned topological quantum phase transition in MnBi_2Te_4 devices. <i>Physical Review B</i> , 2022, 105, .	3.2	15
5	Magnetic Moments Induced by Atomic Vacancies in Transition Metal Dichalcogenide Flakes. <i>Advanced Materials</i> , 2021, 33, e2005465.	21.0	40
6	Systematic electrochemical etching of various metal tips for tunneling spectroscopy and scanning probe microscopy. <i>Review of Scientific Instruments</i> , 2021, 92, 015124.	1.3	2
7	Capping layer influence and isotropic in-plane upper critical field of the superconductivity at the $\text{FeSe}/\text{SrTiO}_3$ interface. <i>Physical Review Materials</i> , 2021, 5, .	2.4	2
8	Atomic Line Defects and Topological Superconductivity in Unconventional Superconductors. <i>Physical Review X</i> , 2021, 11, .	8.9	14
9	Induced anomalous Hall effect of massive Dirac fermions in ZrTe_5 and HfTe_5 thin flakes. <i>Physical Review B</i> , 2021, 103, .	3.2	15
10	Intrinsic magnetic topological insulators. <i>Innovation(China)</i> , 2021, 2, 100098.	9.1	47
11	Extrinsic and Intrinsic Anomalous Metallic States in Transition Metal Dichalcogenide Ising Superconductors. <i>Nano Letters</i> , 2021, 21, 7486-7494.	9.1	18
12	Controlled Syntheses and Multifunctional Applications of Two-Dimensional Metallic Transition Metal Dichalcogenides. <i>Accounts of Materials Research</i> , 2021, 2, 751-763.	11.7	11
13	Observation of In-Plane Quantum Griffiths Singularity in Two-Dimensional Crystalline Superconductors. <i>Physical Review Letters</i> , 2021, 127, 137001.	7.8	17
14	Equally Spaced Quantum States in van der Waals Epitaxy-Grown Nanoislands. <i>Nano Letters</i> , 2021, 21, 9285-9292.	9.1	1
15	Detection of Magnetic Gap in Topological Surface States of MnBi_2Te_4 . <i>Chinese Physics Letters</i> , 2021, 38, 107404.	3.3	17
16	Surface superconductivity in the type II Weyl semimetal TaIrTe_4 . <i>National Science Review</i> , 2020, 7, 579-587.	9.5	39
17	Ferromagnetic tip induced unconventional superconductivity in Weyl semimetal. <i>Science Bulletin</i> , 2020, 65, 21-26.	9.0	8
18	Eightfold fermionic excitation in a charge density wave compound. <i>Physical Review B</i> , 2020, 102, .	3.2	20

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19	Unconventional Hall effect induced by Berry curvature. National Science Review, 2020, 7, 1879-1885.	9.5	19
20	Possible unconventional two-band superconductivity in MoTe ₂ . Physical Review B, 2020, 102, .	3.2	12
21	Quantum phenomena in topological materials. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	9
22	Anomalous linear magnetoresistance in high-quality crystalline lead thin films. Physical Review B, 2020, 102, .	3.2	2
23	Disorder-Induced Quantum Griffiths Singularity Revealed in an Artificial 2D Superconducting System. Advanced Science, 2020, 7, 1902849.	11.2	10
24	Extremely large and anisotropic magnetoresistance in rare-earth tritelluride TbTe ₃ . Journal of Applied Physics, 2020, 128, 073901.	2.5	9
25	Tunable discrete scale invariance in transition-metal pentatelluride flakes. Npj Quantum Materials, 2020, 5, .	5.2	7
26	High-Chern-number and high-temperature quantum Hall effect without Landau levels. National Science Review, 2020, 7, 1280-1287.	9.5	251
27	Atomic line defects and zero-energy end states in monolayer Fe(Te,Se) high-temperature superconductors. Nature Physics, 2020, 16, 536-540.	16.7	78
28	Type-II Ising Superconductivity and Anomalous Metallic State in Macro-Size Ambient-Stable Ultrathin Crystalline Films. Nano Letters, 2020, 20, 5728-5734.	9.1	43
29	Investigation of point-contact Andreev reflection on magnetic Weyl semimetal Co ₃ Sn ₂ S ₂ . Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	8
30	Discovery of an unconventional charge modulation on the surface of charge-density-wave material TaTe ₄ . New Journal of Physics, 2020, 22, 083025.	2.9	7
31	Bosonic Mode and Impurity-Scattering in Monolayer Fe(Te,Se) High-Temperature Superconductors. Nano Letters, 2020, 20, 2056-2061.	9.1	7
32	Heterostructural one-unit-cell FeSe/SrTiO ₃ : from high-temperature superconductivity to topological states. 2D Materials, 2020, 7, 022006.	4.4	14
33	Zero-energy bound states in the high-temperature superconductors at the two-dimensional limit. Science Advances, 2020, 6, eaax7547.	10.3	25
34	Superconductivity in topological materials. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 020301.	0.5	1
35	Log-periodic quantum magneto-oscillations and discrete-scale invariance in topological material HfTe ₅ . National Science Review, 2019, 6, 914-920.	9.5	15
36	Anomalous quantum Griffiths singularity in ultrathin crystalline lead films. Nature Communications, 2019, 10, 3633.	12.8	21

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37	Spectroscopic Imaging of Quasiparticle Bound States Induced by Strong Nonmagnetic Scatterings in One-Unit-Cell FeSe/SrTiO ₃ . <i>Physical Review Letters</i> , 2019, 123, 036801.	7.8	18
38	Recent progress in the controlled synthesis of 2D metallic transition metal dichalcogenides. <i>Nanotechnology</i> , 2019, 30, 182002.	2.6	54
39	Manipulating the particle-hole symmetry of quasiparticle bound states in geometric-size-varying Fe clusters on one-unit-cell FeSe/SrTiO ₃ (001). <i>Journal of Physics Condensed Matter</i> , 2019, 31, 285002.	1.8	2
40	Intermediate bosonic metallic state in the superconductor-insulator transition. <i>Science</i> , 2019, 366, 1505-1509.	12.6	88
41	Signature of Superconductivity in Orthorhombic CoSb Monolayer Films on SrTiO ₃ (001). <i>ACS Nano</i> , 2019, 13, 10434-10439.	14.6	13
42	Detection of Bosonic Mode as a Signature of Magnetic Excitation in One-Unit-Cell FeSe on SrTiO ₃ . <i>Nano Letters</i> , 2019, 19, 3464-3472.	9.1	19
43	Superconductivity and Fermi Surface Anisotropy in Transition Metal Dichalcogenide NbTe ₂ . <i>Chinese Physics Letters</i> , 2019, 36, 057402.	3.3	22
44	Engineering atomically flat rutile TiO ₂ (100) over a centimeter scale. <i>Surface Topography: Metrology and Properties</i> , 2019, 7, 025002.	1.6	0
45	Superconductivity in topological semimetals. <i>National Science Review</i> , 2019, 6, 199-202.	9.5	14
46	Log-periodic quantum oscillations in topological or Dirac materials. <i>Frontiers of Physics</i> , 2019, 14, 1.	5.0	1
47	Surface superconductivity on Weyl semimetal induced by nonmagnetic and ferromagnetic tips. <i>Physical Review Materials</i> , 2019, 3, .	2.4	12
48	Vertical 1T-TaS ₂ Synthesis on Nanoporous Gold for High-Performance Electrocatalytic Applications. <i>Advanced Materials</i> , 2018, 30, e1705916.	21.0	75
49	Interface-Induced Zeeman-Protected Superconductivity in Ultrathin Crystalline Lead Films. <i>Physical Review X</i> , 2018, 8, .	8.9	36
50	Novel voltage signal at proximity-induced superconducting transition temperature in gold nanowires. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	2
51	Discovery of log-periodic oscillations in ultraquantum topological materials. <i>Science Advances</i> , 2018, 4, eaau5096.	10.3	54
52	Electron transport in Dirac and Weyl semimetals. <i>Chinese Physics B</i> , 2018, 27, 107402.	1.4	27
53	Chemical Vapor Deposition Grown Wafer-Scale 2D Tantalum Diselenide with Robust Charge-Density-Wave Order. <i>Advanced Materials</i> , 2018, 30, e1804616.	21.0	63
54	Nontrivial superconductivity in topological MoTe _{2-x} S _x crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9503-9508.	7.1	65

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55	Physical properties and potential applications of two-dimensional metallic transition metal dichalcogenides. <i>Coordination Chemistry Reviews</i> , 2018, 376, 1-19.	18.8	49
56	Tip-induced or enhanced superconductivity: a way to detect topological superconductivity. <i>Science Bulletin</i> , 2018, 63, 1141-1158.	9.0	26
57	Discovery of tip induced unconventional superconductivity on Weyl semimetal. <i>Science Bulletin</i> , 2017, 62, 425-430.	9.0	68
58	High-temperature superconductivity in one-unit-cell FeSe films. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 153001.	1.8	50
59	Ising Superconductivity and Quantum Phase Transition in Macro-Size Monolayer NbSe ₂ . <i>Nano Letters</i> , 2017, 17, 6802-6807.	9.1	155
60	Spin fluctuation induced linear magnetoresistance in ultrathin superconducting FeSe films. <i>2D Materials</i> , 2017, 4, 034004.	4.4	16
61	Chiral anomaly and ultrahigh mobility in crystalline HfTe_5 . <i>Physical Review B</i> , 2016, 93, .	3.2	53
62	Superconductivity in topologically nontrivial material Au ₂ Pb. <i>Npj Quantum Materials</i> , 2016, 1, .	5.2	52
63	Observation of quantum Griffiths singularity and ferromagnetism at the superconducting $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>Physical Review B</i> , 2016, 94, .	4.1	49
64	Observation of superconductivity induced by a point contact on 3D Dirac semimetal Cd ₃ As ₂ crystals. <i>Nature Materials</i> , 2016, 15, 38-42.	27.5	209
65	Anisotropic Fermi Surface and Quantum Limit Transport in High Mobility Three-Dimensional Dirac Semimetal Cd_3As_2 . <i>Physical Review X</i> , 2015, 5, .	8.9	118
66	Anisotropic magnetotransport and exotic longitudinal linear magnetoresistance in WTe ₂ crystals. <i>Physical Review B</i> , 2015, 92, .	3.2	156
67	Growth and Electronic Transport Property of Layered BiOCl Microplates. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500194.	3.7	10
68	Detection of a Superconducting Phase in a Two-Atom Layer of Hexagonal Ga Film Grown on Semiconducting GaN(0001). <i>Physical Review Letters</i> , 2015, 114, 107003.	7.8	81
69	Thickness dependence of superconductivity and superconductor-insulator transition in ultrathin FeSe films on SrTiO ₃ (001) substrate. <i>2D Materials</i> , 2015, 2, 044012.	4.4	37
70	Quantum Griffiths singularity of superconductor-metal transition in Ga thin films. <i>Science</i> , 2015, 350, 542-545.	12.6	151
71	Direct Observation of High-Temperature Superconductivity in One-Unit-Cell FeSe Films. <i>Chinese Physics Letters</i> , 2014, 31, 017401.	3.3	222
72	High temperature superconducting FeSe films on SrTiO ₃ substrates. <i>Scientific Reports</i> , 2014, 4, 6040.	3.3	109

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73	Crossover between Weak Antilocalization and Weak Localization of Bulk States in Ultrathin Bi ₂ Se ₃ Films. Scientific Reports, 2014, 4, 5817.	3.3	52
74	Electronic transport properties of topological insulator films and low dimensional superconductors. Frontiers of Physics, 2013, 8, 491-508.	5.0	13
75	Superconductivity in single crystalline Pb nanowires contacted by normal metal electrodes. Physical Review B, 2012, 86, .	3.2	20
76	Quantum transport in topological insulator hybrid structuresâ€”A combination of topological insulator and superconductor. Science China: Physics, Mechanics and Astronomy, 2012, 55, 2226-2236.	5.1	9
77	Anomalous anisotropic magnetoresistance in topological insulator films. Nano Research, 2012, 5, 739-746.	10.4	71
78	Interplay between topological insulators and superconductors. Physical Review B, 2012, 85, .	3.2	47
79	Evidence for electron-electron interaction in topological insulator thin films. Physical Review B, 2011, 83, .	3.2	244