Shuyun Zhou

List of Publications by Year
in descending order

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81	9,358	109264	60583
papers	citations	35 h-index	81 g-index

81	81	81	11949
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-energy dynamics and the mode-specific phonon threshold effect in KekulÃ©-ordered graphene. National Science Review, 2022, 9, .	4.6	15
2	Light-induced emergent phenomena in 2D materials and topological materials. Nature Reviews Physics, 2022, 4, 33-48.	11.9	94
3	Ultrafast time- and angle-resolved photoemission spectroscopy with widely tunable probe photon energy of 5.3â€“7.0ÂeV for investigating dynamics of three-dimensional materials. Review of Scientific Instruments, 2022, 93, 013902.	0.6	16
4	Population Inversion and Dirac Fermion Cooling in 3D Dirac Semimetal Cd₃As₂. Nano Letters, 2022, 22, 1138-1144.	4.5	9
5	Ultrafast photothermoelectric effect in Dirac semimetallic Cd3As2 revealed by terahertz emission. Nature Communications, 2022, 13, 1623.	5.8	29
6	Coexistence of extended flat band and KekulÃ© order in Li-intercalated graphene. Physical Review B, 2022, 105, .	1.1	18
7	Angle-resolved photoemission spectroscopy. Nature Reviews Methods Primers, 2022, 2, .	11.8	29
8	Growth of large scale PtTe, PtTe2 and PtSe2 films on a wide range of substrates. Nano Research, 2021, 14, 1663-1667.	5.8	26
9	Circular photogalvanic effect from third-order nonlinear effect in 1Tâ€™-MoTe₂. 2D Materials, 2021, 8, 025016.	2.0	8
10	Type-III Weyl semimetals: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mi mathvariant="normal">I</mml:mi></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	1.1	52
11	Full diagnostics and optimization of time resolution for time- and angle-resolved photoemission spectroscopy. Review of Scientific Instruments, 2021, 92, 033904.	0.6	10
12	Experimental Evidence of Chiral Symmetry Breaking in KekulÃ©-Ordered Graphene. Physical Review Letters, 2021, 126, 206804.	2.9	72
13	Fieldâ€Effect Chiral Anomaly Devices with Dirac Semimetal. Advanced Functional Materials, 2021, 31, 2104192.	7.8	13
14	Light-Tunable Surface State and Hybridization Gap in Magnetic Topological Insulator MnBi₈Te₁₃. Nano Letters, 2021, 21, 6080-6086.	4.5	27
15	Experimental evidence of plasmarons and effective fine structure constant in electron-doped graphene/h-BN heterostructure. Npj Quantum Materials, 2021, 6, .	1.8	3
16	Robust charge-density wave strengthened by electron correlations in monolayer 1T-TaSe2 and 1T-NbSe2. Nature Communications, 2021, 12, 5873.	5.8	39
17	Spatially-resolved electronic structure of stripe domains in IrTe2 through electronic structure microscopy. Communications Physics, 2021, 4, .	2.0	4
18	Induced anisotropic superconductivity in ionic liquid cation intercalated 1T-SnSe₂. 2D Materials, 2021, 8, 015024.	2.0	6

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19	Enhancement of superconductivity in organic-inorganic hybrid topological materials. Science Bulletin, 2020, 65, 188-193.	4.3	39
20	Seeded growth of high-quality transition metal dichalcogenide single crystals via chemical vapor transport. CrystEngComm, 2020, 22, 8017-8022.	1.3	5
21	Interlayer quantum transport in Dirac semimetal BaGa2. Nature Communications, 2020, 11, 2370.	5.8	8
22	Black phosphorous for pseudospintronics. Nature Materials, 2020, 19, 263-264.	13.3	13
23	Photocurrent response of type-II Dirac semimetal PtTe₂. 2D Materials, 2020, 7, 034003.	2.0	24
24	Progress on band structure engineering of twisted bilayer and two-dimensional moirÃ© heterostructures*. Chinese Physics B, 2020, 29, 127304.	0.7	8
25	Disorder-induced multifractal superconductivity in monolayer niobium dichalcogenides. Nature Physics, 2019, 15, 904-910.	6.5	86
26	Electronic structure of molecular beam epitaxy grown 1 T â€² -MoTe₂ film and strain effect*. Chinese Physics B, 2019, 28, 107307.	0.7	7
27	Preface to the Special Issue on 2D-Materials-Related Physical Properties and Optoelectronic Devices. Journal of Semiconductors, 2019, 40, 060101.	2.0	4
28	Crossover from 2D metal to 3D Dirac semimetal in metallic PtTe2 films with local Rashba effect. Science Bulletin, 2019, 64, 1044-1048.	4.3	44
29	Experimental progress on layered topological semimetals. 2D Materials, 2019, 6, 032001.	2.0	26
30	Manipulate the Electronic and Magnetic States in NiCo₂O₄ Films through Electricâ€Fieldâ€Induced Protonation at Elevated Temperature. Advanced Materials, 2019, 31, e1900458.	11.1	64
31	Evidence of charge density wave with anisotropic gap in a monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">VTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> film. Physical Review B, 2019, 100, .	1.1	43
32	Pressure-induced Lifshitz transition in the type II Dirac semimetal PtTe2. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	13
33	Elastic Properties and Fracture Behaviors of Biaxially Deformed, Polymorphic MoTe₂. Nano Letters, 2019, 19, 761-769.	4.5	67
34	Extremely large magnetoresistance and electronic structure of TmSb. Physical Review B, 2018, 97, .	1.1	23
35	Anisotropic Broadband Photoresponse of Layered Typeâ€II Weyl Semimetal MoTe₂. Advanced Materials, 2018, 30, e1707152.	11.1	139
36	Conversion of Multi-layered MoTe2 Transistor Between P-Type and N-Type and Their Use in Inverter. Nanoscale Research Letters, 2018, 13, 291.	3.1	30

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37	Barkhausen effect in the first order structural phase transition in type-II Weyl semimetal MoTe ₂. 2D Materials, 2018, 5, 044003.	2.0	12
38	Evidence for a Quasi-One-Dimensional Charge Density Wave in CuTe by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2018, 121, 206402.	2.9	33
39	Resolving Deep Quantum-Well States in Atomically Thin 2H-MoTe₂ Flakes by Nanospot Angle-Resolved Photoemission Spectroscopy. Nano Letters, 2018, 18, 4664-4668.	4.5	13
40	Quasicrystalline 30Â° twisted bilayer graphene as an incommensurate superlattice with strong interlayer coupling. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6928-6933.	3.3	169
41	Widely tunable band gap in a multivalley semiconductor SnSe by potassium doping. Physical Review Materials, 2018, 2, .	0.9	17
42	Stacking-Dependent Electronic Structure of Trilayer Graphene Resolved by Nanospot Angle-Resolved Photoemission Spectroscopy. Nano Letters, 2017, 17, 1564-1568.	4.5	63
43	Direct observation of spin-layer locking by local Rashba effect in monolayer semiconducting PtSe2 film. Nature Communications, 2017, 8, 14216.	5.8	151
44	Emergence of Tertiary Dirac Points in Graphene MoirÃ© Superlattices. Nano Letters, 2017, 17, 3576-3581.	4.5	28
45	Electric-field control of tri-state phase transformation with a selective dual-ion switch. Nature, 2017, 546, 124-128.	13.7	551
46	Experimental evidence for type-II Dirac semimetal in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PtSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2017, 96, .	1.1	159
47	High quality atomically thin PtSe ₂ films grown by molecular beam epitaxy. 2D Materials, 2017, 4, 045015.	2.0	142
48	Lorentz-violating type-II Dirac fermions in transition metal dichalcogenide PtTe2. Nature Communications, 2017, 8, 257.	5.8	337
49	Wafer-Scale Growth and Transfer of Highly-Oriented Monolayer MoS₂ Continuous Films. ACS Nano, 2017, 11, 12001-12007.	7.3	397
50	Revealing Fermi arcs and Weyl nodes in MoTe2 by quasiparticle interference mapping. Physical Review B, 2017, 95, .	1.1	21
51	Pronounced Photovoltaic Response from Multi-layered MoTe2 Phototransistor with Asymmetric Contact Form. Nanoscale Research Letters, 2017, 12, 603.	3.1	7
52	Raman signatures of inversion symmetry breaking and structural phase transition in type-II Weyl semimetal MoTe2. Nature Communications, 2016, 7, 13552.	5.8	118
53	Experimental observation of topological Fermi arcs in type-II Weyl semimetal MoTe2. Nature Physics, 2016, 12, 1105-1110.	6.5	663
54	Type-II Dirac fermions in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="bold">PtSe</mml:mi><mml:mn mathvariant="bold">2</mml:mn></mml:msub></mml:math>class of transition metal dichalcogenides. Physical Review B, 2016, 94, .	1.1	236

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55	Gaps induced by inversion symmetry breaking andÂsecond-generation Dirac cones in graphene/hexagonal boron nitride. Nature Physics, 2016, 12, 1111-1115.	6.5	179
56	Electronic structure of transferred graphene/h-BN van der Waals heterostructures with nonzero stacking angles by nano-ARPES. Journal of Physics Condensed Matter, 2016, 28, 444002.	0.7	14
57	Monolayer charge-neutral graphene on platinum with extremely weak electron-phonon coupling. Physical Review B, 2015, 92, .	1.1	12
58	Ultrafast x-ray and optical signatures of phase competition and separation underlying the photoinduced metallic phase inPr1â^'xCaxMnO3. Physical Review B, 2015, 92, .	1.1	10
59	Glass-like recovery of antiferromagnetic spin ordering in a photo-excited manganite Pr0.7Ca0.3MnO3. Scientific Reports, 2015, 4, 4050.	1.6	15
60	Monolayer PtSe₂, a New Semiconducting Transition-Metal-Dichalcogenide, Epitaxially Grown by Direct Selenization of Pt. Nano Letters, 2015, 15, 4013-4018.	4.5	560
61	Robust Gapless Surface State and Rashba-Splitting Bands upon Surface Deposition of Magnetic Cr on Bi₂Se₃. Nano Letters, 2015, 15, 2031-2036.	4.5	33
62	Topological Surface State Enhanced Photothermoelectric Effect in Bi₂Se₃ Nanoribbons. Nano Letters, 2014, 14, 4389-4394.	4.5	79
63	Fully gapped topological surface states in Bi2Se3 films induced by a d-wave high-temperature superconductor. Nature Physics, 2013, 9, 621-625.	6.5	149
64	Real-Time Manifestation of Strongly Coupled Spin and Charge Order Parameters in Stripe-Ordered<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>1.75</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml: Crystals Using Time-Resolved Resonant X-Ray Diffraction. Physical Review Letters, 2013, 110, 127404.	2.9	48
65	Phase fluctuations and the absence of topological defects in a photo-excited charge-ordered nickelate. Nature Communications, 2012, 3, 838.	5.8	85
66	Ferromagnetic Enhancement of CE-Type Spin Ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">(</mml:mo><mml:mi>Pr</mml:mi><mml:mo>,</mml:mo><mml:mi>Ca</mml:mi><mml:mo) Tj ET Q q 0 0 0 rg BT /Overlo Physical Review Letters, 2011, 106, 186404.	2.9	46
67	Phonon dispersion and low-energy anomaly in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CaC</mml:mtext></mml:mrow><mml:mn>6</mml:mn></mml:ms inelastic neutron and x-ray scattering experiments. Physical Review B, 2010, 81, .	1.1	12
68	Instability of two-dimensional graphene: Breaking<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>s</mml:mi><mml:mi>p</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:m with soft x rays. Physical Review B, 2009, 80, .	1.1	44
69	Three-fold diffraction symmetry in epitaxial graphene and the SiC substrate. Physical Review B, 2009, 80, .	1.1	15
70	Bilayer splitting andc-axis coupling in bilayer manganites showing colossal magnetoresistance. Physical Review B, 2009, 80, .	1.1	7
71	Broadband electromagnetic response and ultrafast dynamics of few-layer epitaxial graphene. Applied Physics Letters, 2009, 94, .	1.5	199
72	Origin of the energy bandgap in epitaxial graphene. Nature Materials, 2008, 7, 259-260.	13.3	175

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73	Self-doping effects in epitaxially grown graphene. Applied Physics Letters, 2008, 93, .	1.5	33
74	Revealing Charge Density Wave Formation in theLaTe2System by Angle Resolved Photoemission Spectroscopy. Physical Review Letters, 2007, 98, 166403.	2.9	26
75	Substrate-induced bandgap opening in epitaxial graphene. Nature Materials, 2007, 6, 770-775.	13.3	2,115
76	First direct observation of Dirac fermions inÂgraphite. Nature Physics, 2006, 2, 595-599.	6.5	466
77	Synthesis and characterization of atomically thin graphite films on a silicon carbide substrate. Journal of Physics and Chemistry of Solids, 2006, 67, 2172-2177.	1.9	423
78	Low energy excitations in graphite: The role of dimensionality and lattice defects. Annals of Physics, 2006, 321, 1730-1746.	1.0	75
79	Strong and Complex Electron-Lattice Correlation in Optimally DopedBi2Sr2CaCu2O8+Î´. Physical Review Letters, 2006, 97, 227001.	2.9	17
80	An unusual isotope effect in a high-transition-temperature superconductor. Nature, 2004, 430, 187-190.	13.7	277
81	Strong influence of phonons on the electron dynamics of Bi2Sr2CaCu2O8+Î´. Journal of Physics and Chemistry of Solids, 2004, 65, 1397-1401.	1.9	14