

Shuyun Zhou

List of Publications by Year in descending order

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81
papers

9,358
citations

109321

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81
all docs

81
docs citations

81
times ranked

11949
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-energy dynamics and the mode-specific phonon threshold effect in Kekulé-ordered graphene. National Science Review, 2022, 9, .	9.5	15
2	Light-induced emergent phenomena in 2D materials and topological materials. Nature Reviews Physics, 2022, 4, 33-48.	26.6	94
3	Ultrafast time- and angle-resolved photoemission spectroscopy with widely tunable probe photon energy of 5.3–7.0 eV for investigating dynamics of three-dimensional materials. Review of Scientific Instruments, 2022, 93, 013902.	1.3	16
4	Population Inversion and Dirac Fermion Cooling in 3D Dirac Semimetal Cd ₃ As ₂ . Nano Letters, 2022, 22, 1138-1144.	9.1	9
5	Ultrafast photothermoelectric effect in Dirac semimetallic Cd ₃ As ₂ revealed by terahertz emission. Nature Communications, 2022, 13, 1623.	12.8	29
6	Coexistence of extended flat band and Kekulé order in Li-intercalated graphene. Physical Review B, 2022, 105, .	3.2	18
7	Angle-resolved photoemission spectroscopy. Nature Reviews Methods Primers, 2022, 2, .	21.2	29
8	Growth of large scale PtTe, PtTe ₂ and PtSe ₂ films on a wide range of substrates. Nano Research, 2021, 14, 1663-1667.	10.4	26
9	Circular photogalvanic effect from third-order nonlinear effect in 1T TM -MoTe ₂ . 2D Materials, 2021, 8, 025016.	4.4	8
10	Type-III Weyl semimetals: $I_{\text{anomalous}}$. Physical Review B, 2021, 103, .	3.2	18
11	Full diagnostics and optimization of time resolution for time- and angle-resolved photoemission spectroscopy. Review of Scientific Instruments, 2021, 92, 033904.	1.3	10
12	Experimental Evidence of Chiral Symmetry Breaking in Kekulé-Ordered Graphene. Physical Review Letters, 2021, 126, 206804.	7.8	72
13	Field-Effect Chiral Anomaly Devices with Dirac Semimetal. Advanced Functional Materials, 2021, 31, 2104192.	14.9	13
14	Light-Tunable Surface State and Hybridization Gap in Magnetic Topological Insulator MnBi ₈ Te ₁₃ . Nano Letters, 2021, 21, 6080-6086.	9.1	27
15	Experimental evidence of plasmarons and effective fine structure constant in electron-doped graphene/h-BN heterostructure. Npj Quantum Materials, 2021, 6, .	5.2	3
16	Robust charge-density wave strengthened by electron correlations in monolayer 1T-TaSe ₂ and 1T-NbSe ₂ . Nature Communications, 2021, 12, 5873.	12.8	39
17	Spatially-resolved electronic structure of stripe domains in IrTe ₂ through electronic structure microscopy. Communications Physics, 2021, 4, .	5.3	4
18	Induced anisotropic superconductivity in ionic liquid cation intercalated 1T-SnSe ₂ . 2D Materials, 2021, 8, 015024.	4.4	6

#	ARTICLE	IF	CITATIONS
19	Enhancement of superconductivity in organic-inorganic hybrid topological materials. Science Bulletin, 2020, 65, 188-193.	9.0	39
20	Seeded growth of high-quality transition metal dichalcogenide single crystals <i>via</i> chemical vapor transport. CrystEngComm, 2020, 22, 8017-8022.	2.6	5
21	Interlayer quantum transport in Dirac semimetal BaGa ₂ . Nature Communications, 2020, 11, 2370.	12.8	8
22	Black phosphorous for pseudospintronics. Nature Materials, 2020, 19, 263-264.	27.5	13
23	Photocurrent response of type-II Dirac semimetal PtTe ₂ . 2D Materials, 2020, 7, 034003.	4.4	24
24	Progress on band structure engineering of twisted bilayer and two-dimensional moiré heterostructures*. Chinese Physics B, 2020, 29, 127304.	1.4	8
25	Disorder-induced multifractal superconductivity in monolayer niobium dichalcogenides. Nature Physics, 2019, 15, 904-910.	16.7	86
26	Electronic structure of molecular beam epitaxy grown $1\text{ T } \hat{\text{a}}^2$ -MoTe ₂ film and strain effect*. Chinese Physics B, 2019, 28, 107307.	1.4	7
27	Preface to the Special Issue on 2D-Materials-Related Physical Properties and Optoelectronic Devices. Journal of Semiconductors, 2019, 40, 060101.	3.7	4
28	Crossover from 2D metal to 3D Dirac semimetal in metallic PtTe ₂ films with local Rashba effect. Science Bulletin, 2019, 64, 1044-1048.	9.0	44
29	Experimental progress on layered topological semimetals. 2D Materials, 2019, 6, 032001.	4.4	26
30	Manipulate the Electronic and Magnetic States in NiCo ₂ O ₄ Films through Electric-Field-Induced Protonation at Elevated Temperature. Advanced Materials, 2019, 31, e1900458.	21.0	64
31	Evidence of charge density wave with anisotropic gap in a monolayer \sqrt{t} VTe ₂ film. Physical Review B, 2019, 100, .	3.2	43
32	Pressure-induced Lifshitz transition in the type II Dirac semimetal PtTe ₂ . Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	13
33	Elastic Properties and Fracture Behaviors of Biaxially Deformed, Polymorphic MoTe ₂ . Nano Letters, 2019, 19, 761-769.	9.1	67
34	Extremely large magnetoresistance and electronic structure of TmSb. Physical Review B, 2018, 97, .	3.2	23
35	Anisotropic Broadband Photoresponse of Layered Type-II Weyl Semimetal MoTe ₂ . Advanced Materials, 2018, 30, e1707152.	21.0	139
36	Conversion of Multi-layered MoTe ₂ Transistor Between P-Type and N-Type and Their Use in Inverter. Nanoscale Research Letters, 2018, 13, 291.	5.7	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.	4.4	12
38	Evidence for a Quasi-One-Dimensional Charge Density Wave in CuTe by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2018, 121, 206402.	7.8	33
39	Resolving Deep Quantum-Well States in Atomically Thin 2H-MoTe ₂ Flakes by Nanospot Angle-Resolved Photoemission Spectroscopy. Nano Letters, 2018, 18, 4664-4668.	9.1	13
40	Quasicrystalline 30° 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.	7.1	169
41	Widely tunable band gap in a multivalley semiconductor SnSe by potassium doping. Physical Review Materials, 2018, 2, .	2.4	17
42	Stacking-Dependent Electronic Structure of Trilayer Graphene Resolved by Nanospot Angle-Resolved Photoemission Spectroscopy. Nano Letters, 2017, 17, 1564-1568.	9.1	63
43	Direct observation of spin-layer locking by local Rashba effect in monolayer semiconducting PtSe ₂ film. Nature Communications, 2017, 8, 14216.	12.8	151
44	Emergence of Tertiary Dirac Points in Graphene Moiré Superlattices. Nano Letters, 2017, 17, 3576-3581.	9.1	28
45	Electric-field control of tri-state phase transformation with a selective dual-ion switch. Nature, 2017, 546, 124-128.	27.8	551
46	Experimental evidence for type-II Dirac semimetal in PtSe ₂ . Physical Review B, 2017, 96, .	12.8	179
47	High quality atomically thin PtSe ₂ films grown by molecular beam epitaxy. 2D Materials, 2017, 4, 045015.	4.4	142
48	Lorentz-violating type-II Dirac fermions in transition metal dichalcogenide PtTe ₂ . Nature Communications, 2017, 8, 257.	12.8	337
49	Wafer-Scale Growth and Transfer of Highly-Oriented Monolayer MoS ₂ Continuous Films. ACS Nano, 2017, 11, 12001-12007.	14.6	397
50	Revealing Fermi arcs and Weyl nodes in MoTe ₂ by quasiparticle interference mapping. Physical Review B, 2017, 95, .	3.2	21
51	Pronounced Photovoltaic Response from Multi-layered MoTe ₂ Phototransistor with Asymmetric Contact Form. Nanoscale Research Letters, 2017, 12, 603.	5.7	7
52	Raman signatures of inversion symmetry breaking and structural phase transition in type-II Weyl semimetal MoTe ₂ . Nature Communications, 2016, 7, 13552.	12.8	118
53	Experimental observation of topological Fermi arcs in type-II Weyl semimetal MoTe ₂ . Nature Physics, 2016, 12, 1105-1110.	16.7	663
54	Type-II Dirac fermions in the PtSe ₂ class of transition metal dichalcogenides. Physical Review B, 2016, 94, .	3.2	236

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55	Gaps induced by inversion symmetry breaking and \hat{A} second-generation Dirac cones in graphene/hexagonal boron nitride. Nature Physics, 2016, 12, 1111-1115.	16.7	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.	1.8	14
57	Monolayer charge-neutral graphene on platinum with extremely weak electron-phonon coupling. Physical Review B, 2015, 92, .	3.2	12
58	Ultrafast x-ray and optical signatures of phase competition and separation underlying the photoinduced metallic phase in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$. Physical Review B, 2015, 92, .	3.2	10
59	Glass-like recovery of antiferromagnetic spin ordering in a photo-excited manganite $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. Scientific Reports, 2015, 4, 4050.	3.3	15
60	Monolayer PtSe_2 , a New Semiconducting Transition-Metal-Dichalcogenide, Epitaxially Grown by Direct Selenization of Pt. Nano Letters, 2015, 15, 4013-4018.	9.1	560
61	Robust Gapless Surface State and Rashba-Splitting Bands upon Surface Deposition of Magnetic Cr on Bi_2Se_3 . Nano Letters, 2015, 15, 2031-2036.	9.1	33
62	Topological Surface State Enhanced Photothermoelectric Effect in Bi_2Se_3 Nanoribbons. Nano Letters, 2014, 14, 4389-4394.	9.1	79
63	Fully gapped topological surface states in Bi_2Se_3 films induced by a d-wave high-temperature superconductor. Nature Physics, 2013, 9, 621-625.	16.7	149
64	Real-Time Manifestation of Strongly Coupled Spin and Charge Order Parameters in Stripe-Ordered $\text{La}_{1.75}\text{Sr}_2\text{CuO}_4$ Crystals Using Time-Resolved Resonant X-Ray Diffraction. Physical Review Letters, 2013, 110, 127404.	7.8	118
65	Phase fluctuations and the absence of topological defects in a photo-excited charge-ordered nickelate. Nature Communications, 2012, 3, 838.	12.8	85
66	Ferromagnetic Enhancement of CE-Type Spin Ordering in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$. Physical Review Letters, 2011, 106, 186404.	9.1	85
67	Phonon dispersion and low-energy anomaly in CaC_6 . Inelastic neutron and x-ray scattering experiments. Physical Review B, 2010, 81, .	3.2	12
68	Instability of two-dimensional graphene: Breaking sp^2 with soft x rays. Physical Review B, 2009, 80, .	3.2	44
69	Three-fold diffraction symmetry in epitaxial graphene and the SiC substrate. Physical Review B, 2009, 80, .	3.2	15
70	Bilayer splitting and c-axis coupling in bilayer manganites showing colossal magnetoresistance. Physical Review B, 2009, 80, .	3.2	7
71	Broadband electromagnetic response and ultrafast dynamics of few-layer epitaxial graphene. Applied Physics Letters, 2009, 94, .	3.3	199
72	Origin of the energy bandgap in epitaxial graphene. Nature Materials, 2008, 7, 259-260.	27.5	175

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73	Self-doping effects in epitaxially grown graphene. Applied Physics Letters, 2008, 93, .	3.3	33
74	Revealing Charge Density Wave Formation in the LaTe_2 System by Angle Resolved Photoemission Spectroscopy. Physical Review Letters, 2007, 98, 166403.	7.8	26
75	Substrate-induced bandgap opening in epitaxial graphene. Nature Materials, 2007, 6, 770-775.	27.5	2,115
76	First direct observation of Dirac fermions in A^{\wedge} graphite. Nature Physics, 2006, 2, 595-599.	16.7	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.	4.0	423
78	Low energy excitations in graphite: The role of dimensionality and lattice defects. Annals of Physics, 2006, 321, 1730-1746.	2.8	75
79	Strong and Complex Electron-Lattice Correlation in Optimally Doped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\hat{f}}$. Physical Review Letters, 2006, 97, 227001.	7.8	17
80	An unusual isotope effect in a high-transition-temperature superconductor. Nature, 2004, 430, 187-190.	27.8	277
81	Strong influence of phonons on the electron dynamics of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\hat{f}}$. Journal of Physics and Chemistry of Solids, 2004, 65, 1397-1401.	4.0	14