

Zhiqiang Mao

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192
papers

7,473
citations

41
h-index

82
g-index

218
ext. papers

8,924
ext. citations

6.5
avg, IF

5.62
L-index

#	Paper	IF	Citations
192	Time-reversal symmetry-breaking superconductivity in Sr ₂ RuO ₄ . <i>Nature</i> , 1998 , 394, 558-561	50.4	809
191	Spin-triplet superconductivity in Sr ₂ RuO ₄ identified by ¹⁷ O Knight shift. <i>Nature</i> , 1998 , 396, 658-660	50.4	781
190	Superconductivity close to magnetic instability in Fe(Se _{1-x} Te _x) _{0.82} . <i>Physical Review B</i> , 2008 , 78,	3.3	529
189	Evidence of Topological Nodal-Line Fermions in ZrSiSe and ZrSiTe. <i>Physical Review Letters</i> , 2016 , 117, 016602	7.4	270
188	Charge-carrier localization induced by excess Fe in the superconductor Fe _{1+y} Te _{1-x} Se _x . <i>Physical Review B</i> , 2009 , 80,	3.3	205
187	Changes in the Superconducting State of Sr ₂ RuO ₄ under Magnetic Fields Probed by Specific Heat. <i>Journal of the Physical Society of Japan</i> , 2000 , 69, 572-578	1.5	192
186	Gate tunable quantum oscillations in air-stable and high mobility few-layer phosphorene heterostructures. <i>2D Materials</i> , 2015 , 2, 011001	5.9	172
185	Observation of a square flux-line lattice in the unconventional superconductor Sr ₂ RuO ₄ . <i>Nature</i> , 1998 , 396, 242-245	50.4	151
184	Gap structure of the spin-triplet superconductor Sr ₂ RuO ₄ determined from the field-orientation dependence of the specific heat. <i>Physical Review Letters</i> , 2004 , 92, 047002	7.4	150
183	Anisotropic superconducting gap in the spin-triplet superconductor Sr ₂ RuO ₄ : evidence from a Ru-NQR study. <i>Physical Review Letters</i> , 2000 , 84, 5387-90	7.4	144
182	Weak anisotropy of the superconducting upper critical field in Fe _{1.11} Te _{0.6} Se _{0.4} single crystals. <i>Physical Review B</i> , 2010 , 81,	3.3	122
181	Drastic Pressure Effect on the Extremely Large Magnetoresistance in WTe ₂ : Quantum Oscillation Study. <i>Physical Review Letters</i> , 2015 , 115, 057202	7.4	120
180	High performance field-effect transistor based on multilayer tungsten disulfide. <i>ACS Nano</i> , 2014 , 8, 10396-402	16.4	116
179	Observation of Andreev surface bound states in the 3-K phase region of Sr ₂ RuO ₄ . <i>Physical Review Letters</i> , 2001 , 87, 037003	7.4	115
178	Spin scattering and noncollinear spin structure-induced intrinsic anomalous Hall effect in antiferromagnetic topological insulator MnBi ₂ Te ₄ . <i>Physical Review Research</i> , 2019 , 1,	3.9	114
177	Observation of universal strong orbital-dependent correlation effects in iron chalcogenides. <i>Nature Communications</i> , 2015 , 6, 7777	17.4	110
176	Ultrasound attenuation in Sr ₂ RuO ₄ : an angle-resolved study of the superconducting gap function. <i>Physical Review Letters</i> , 2001 , 86, 5986-9	7.4	110

175	Determination of the Superconducting Gap Structure in All Bands of the Spin-Triplet Superconductor Sr ₂ RuO ₄ . <i>Journal of the Physical Society of Japan</i> , 2004 , 73, 1313-1321	1.5	101
174	Origin of the turn-on temperature behavior in WTe ₂ . <i>Physical Review B</i> , 2015 , 92,	3.3	97
173	Dirac Berry phase and Zeeman splitting of Weyl semimetal TaP. <i>Scientific Reports</i> , 2016 , 6, 18674	4.9	91
172	A magnetic topological semimetal SrMnSb (y, z Nature Materials, 2017 , 16, 905-910	27	87
171	In-plane anisotropy of upper critical field in Sr ₂ RuO ₄ . <i>Physical Review Letters</i> , 2000 , 84, 991-4	7.4	83
170	Néel-type skyrmion in WTe/FeGeTe van der Waals heterostructure. <i>Nature Communications</i> , 2020 , 11, 3860	17.4	81
169	Raman Spectroscopy, Photocatalytic Degradation, and Stabilization of Atomically Thin Chromium Tri-iodide. <i>Nano Letters</i> , 2018 , 18, 4214-4219	11.5	79
168	Incommensurate itinerant antiferromagnetic excitations and spin resonance in the FeTe _{0.6} Se _{0.4} superconductor. <i>Physical Review B</i> , 2010 , 81,	3.3	77
167	Transport of Topological Semimetals. <i>Annual Review of Materials Research</i> , 2019 , 49, 207-252	12.8	76
166	Universal heat transport in Sr ₂ RuO ₄ . <i>Physical Review Letters</i> , 2002 , 88, 227004	7.4	73
165	Isolation and Characterization of Few-Layer Manganese Thiophosphite. <i>ACS Nano</i> , 2017 , 11, 11330-11336	6.7	70
164	Effect of Impurities on the Specific Heat of the Spin-Triplet Superconductor Sr ₂ RuO ₄ . <i>Journal of Low Temperature Physics</i> , 1999 , 117, 1581-1585	1.3	69
163	Environmental Instability and Degradation of Single- and Few-Layer WTe Nanosheets in Ambient Conditions. <i>Small</i> , 2016 , 12, 5802-5808	11	69
162	Thermal conductivity of superconducting Sr ₂ RuO ₄ in oriented magnetic fields. <i>Physical Review B</i> , 2001 , 63,	3.3	62
161	Novel Character of Spin Fluctuations in Spin-Triplet Superconductor Sr ₂ RuO ₄ : 17O-NMR Study. <i>Journal of the Physical Society of Japan</i> , 1998 , 67, 3945-3951	1.5	62
160	London penetration depth and superfluid density of single-crystalline Fe _{1+y} (Te _{1-x} Se _x) and Fe _{1+y} (Te _{1-x} S _x). <i>Physical Review B</i> , 2010 , 81,	3.3	61
159	Superconducting Double Transition and the Upper Critical Field Limit of Sr ₂ RuO ₄ in Parallel Magnetic Fields. <i>Journal of the Physical Society of Japan</i> , 2002 , 71, 2839-2842	1.5	59
158	Thermal Transport in Quasi-1D van der Waals Crystal TaPdSe Nanowires: Size and Length Dependence. <i>ACS Nano</i> , 2018 , 12, 2634-2642	16.7	50

157	Adsorption of water at the SrO surface of ruthenates. <i>Nature Materials</i> , 2016 , 15, 450-455	27	50
156	Quantum phase transition in quasi-one-dimensional BaRu6O12. <i>Physical Review Letters</i> , 2003 , 90, 18660-18664	7.4	47
155	Calorimetric evidence of strong-coupling multiband superconductivity in Fe(Te0.57Se0.43) single crystal. <i>Physical Review B</i> , 2011 , 83,	3.3	46
154	Nearly massless Dirac fermions hosted by Sb square net in BaMnSb2. <i>Scientific Reports</i> , 2016 , 6, 30525	4.9	46
153	Quantum oscillation studies of the topological semimetal candidate ZrGeM(M=S,Se,Te). <i>Physical Review B</i> , 2017 , 95,	3.3	44
152	Giant room temperature anomalous Hall effect and tunable topology in a ferromagnetic topological semimetal CoMnAl. <i>Nature Communications</i> , 2020 , 11, 3476	17.4	42
151	Observation of Quasi-Two-Dimensional Polar Domains and Ferroelastic Switching in a Metal, CaRuO. <i>Nano Letters</i> , 2018 , 18, 3088-3095	11.5	39
150	Single- and few-layer WTe2 and their suspended nanostructures: Raman signatures and nanomechanical resonances. <i>Nanoscale</i> , 2016 , 8, 7854-60	7.7	37
149	Phase separation in the itinerant metamagnetic transition of Sr4Ru3O10. <i>Physical Review Letters</i> , 2006 , 96, 077205	7.4	37
148	Thermoelectric power behavior in carbon nanotubule bundles from 4.2 to 300 K. <i>Physical Review B</i> , 1998 , 58, 1166-1168	3.3	36
147	Experimental observation of incoherent-coherent crossover and orbital-dependent band renormalization in iron chalcogenide superconductors. <i>Physical Review B</i> , 2015 , 92,	3.3	33
146	Enhanced electron coherence in atomically thin Nb3SiTe6. <i>Nature Physics</i> , 2015 , 11, 471-476	16.2	31
145	Electronic correlations in nodal-line semimetals. <i>Nature Physics</i> , 2020 , 16, 636-641	16.2	31
144	Distinct magneto-Raman signatures of spin-flip phase transitions in CrI. <i>Nature Communications</i> , 2020 , 11, 3879	17.4	31
143	Epitaxial strain effect on the Jeff = 1/2 moment orientation in Sr2IrO4 thin films. <i>Physical Review B</i> , 2014 , 89,	3.3	29
142	Elastic tensor of Sr2RuO4. <i>Physical Review B</i> , 2002 , 65,	3.3	29
141	Spin polarization enhanced by spin-triplet pairing in Sr2RuO4 probed by NMR. <i>Physical Review B</i> , 2015 , 92,	3.3	28
140	Superconductivity in the half-Heusler compound TbPdBi. <i>Physical Review B</i> , 2018 , 97,	3.3	27

139	Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. <i>Journal of Applied Physics</i> , 2017 , 122, 223102	2.5	27
138	Unusual interlayer quantum transport behavior caused by the zeroth Landau level in YbMnBi. <i>Nature Communications</i> , 2017 , 8, 646	17.4	26
137	Unusual heavy-mass nearly ferromagnetic state with a surprisingly large Wilson ratio in the double layered ruthenates (Sr _{1-x} Cax) ₃ Ru ₂ O ₇ . <i>Physical Review B</i> , 2008 , 78,	3.3	25
136	¹⁰¹ Ru Knight Shift Measurement of Superconducting Sr ₂ RuO ₄ under Small Magnetic Fields Parallel to the RuO ₂ Plane. <i>Journal of the Physical Society of Japan</i> , 2007 , 76, 024716	1.5	25
135	Sign reversal of the oxygen isotope effect on T _c in Sr ₂ RuO ₄ . <i>Physical Review B</i> , 2001 , 63,	3.3	25
134	Detailed study of the ac susceptibility of Sr ₂ RuO ₄ in oriented magnetic fields. <i>Physical Review B</i> , 2002 , 66,	3.3	25
133	Spin Fluctuations in Sr ₂ RuO ₄ from Polarized Neutron Scattering: Implications for Superconductivity. <i>Physical Review Letters</i> , 2019 , 122, 047004	7.4	24
132	Direct Fabrication of Functional Ultrathin Single-Crystal Nanowires from Quasi-One-Dimensional van der Waals Crystals. <i>Nano Letters</i> , 2016 , 16, 6188-6195	11.5	24
131	Unconventional quantum oscillations in mesoscopic rings of spin-triplet superconductor Sr ₂ RuO ₄ . <i>Physical Review B</i> , 2013 , 87,	3.3	24
130	Emergent electronic and magnetic state in Ca ₃ Ru ₂ O ₇ induced by Ti doping. <i>Physical Review B</i> , 2011 , 84,	3.3	24
129	Superconductor-insulator transition in quasi-one-dimensional single-crystal Nb ₃ Sn nanowires. <i>Nano Letters</i> , 2015 , 15, 869-75	11.5	22
128	Absorption edges of black phosphorus: A comparative analysis. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2509-2514	1.3	22
127	Ultrasound evidence for a two-component superconducting order parameter in Sr ₂ RuO ₄ . <i>Nature Physics</i> , 2021 , 17, 194-198	16.2	22
126	Phase diagram of the electronic states of trilayered ruthenate Sr ₄ Ru ₃ O ₁₀ . <i>Physical Review B</i> , 2007 , 75,	3.3	21
125	Experimental Evidence for Spin-Triplet Superconductivity in Sr ₂ RuO ₄ . <i>Journal of Superconductivity and Novel Magnetism</i> , 1999 , 12, 535-541		21
124	Reorientation of the diagonal double-stripe spin structure at FeTe bulk and thin-film surfaces. <i>Nature Communications</i> , 2017 , 8, 13939	17.4	20
123	Distinct Signatures of Electron-Phonon Coupling Observed in the Lattice Thermal Conductivity of NbSe Nanowires. <i>Nano Letters</i> , 2019 , 19, 415-421	11.5	20
122	Colossal Magnetoresistance in a Mott Insulator via Magnetic Field-Driven Insulator-Metal Transition. <i>Physical Review Letters</i> , 2016 , 116, 216401	7.4	19

121	From quasi-two-dimensional metal with ferromagnetic bilayers to Mott insulator with G-type antiferromagnetic order in $\text{Ca}_3(\text{Ru}_{1-x}\text{Ti}_x)\text{O}_7$. <i>Physical Review B</i> , 2013 , 87,	3-3	18
120	Interplay between the lattice and spin degrees of freedom in $(\text{Sr}_{1-x}\text{Ca}_x)_3\text{Ru}_2\text{O}_7$. <i>Physical Review B</i> , 2010 , 82,	3-3	17
119	Unconventional Strain Dependence of Superconductivity in Spin-Triplet Superconductor Sr_2RuO_4 . <i>Journal of the Physical Society of Japan</i> , 2002 , 71, 1134-1139	1-5	17
118	Signature of quantum Griffiths singularity state in a layered quasi-one-dimensional superconductor. <i>Nature Communications</i> , 2018 , 9, 4656	17-4	17
117	Chemical pressure effect on the optical conductivity of the nodal-line semimetals $\text{ZrSi}_4(\text{Y}=\text{S},\text{Se},\text{Te})$ and $\text{ZrGe}_4(\text{Y}=\text{S},\text{Te})$. <i>Physical Review B</i> , 2019 , 99,	3-3	16
116	High chemical activity of a perovskite surface: reaction of CO with $\text{Sr}_3\text{Ru}_2\text{O}_7$. <i>Physical Review Letters</i> , 2014 , 113, 116101	7-4	16
115	Precision global measurements of London penetration depth in $\text{FeTe}_{0.58}\text{Se}_{0.42}$. <i>Physical Review B</i> , 2011 , 84,	3-3	16
114	Atomic and electronic structure of domain walls in a polar metal. <i>Physical Review B</i> , 2019 , 99,	3-3	15
113	Commensurate-incommensurate magnetic phase transition in the Fe-doped bilayer ruthenate $\text{Ca}_3\text{Ru}_2\text{O}_7$. <i>Physical Review B</i> , 2014 , 89,	3-3	15
112	Anisotropy of magnetoresistivities in $\text{Sr}_4\text{Ru}_3\text{O}_{10}$: Evidence for an orbital-selective metamagnetic transition. <i>Physical Review B</i> , 2010 , 81,	3-3	15
111	Orbital-dependent metamagnetic response in $\text{Sr}_4\text{Ru}_3\text{O}_{10}$. <i>Physical Review B</i> , 2007 , 75,	3-3	15
110	Observation of superdiffusive phonon transport in aligned atomic chains. <i>Nature Nanotechnology</i> , 2021 , 16, 764-768	28-7	15
109	Tunneling and Phase-Sensitive Studies of the Pairing Symmetry in Sr_2RuO_4 . <i>Journal of Low Temperature Physics</i> , 2003 , 131, 1059-1068	1-3	14
108	Unusually strong lateral interaction in the CO overlayer in phosphorene-based systems. <i>Nano Research</i> , 2016 , 9, 2598-2605	10	14
107	Lithium ion intercalation in thin crystals of hexagonal TaSe_2 gated by a polymer electrolyte. <i>Applied Physics Letters</i> , 2018 , 112, 023502	3-4	13
106	Study of the transport properties of $\text{La}_{1.85-x}\text{Sr}_{0.15+x}\text{Cu}_1\text{M}_x\text{O}_y$ ($\text{M} = \text{Fe}, \text{Ga}$). <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998 , 249, 153-159	2-3	13
105	Magnetic, electrical transport, and thermoelectric properties of $\text{Sr}_4\text{Ru}_3\text{O}_{10}$: Evidence for a field-induced electronic phase transition at low temperatures. <i>Physical Review B</i> , 2007 , 76,	3-3	13
104	Competing magnetic fluctuations in $\text{Sr}_3\text{Ru}_2\text{O}_7$ probed by Ti doping. <i>Physical Review B</i> , 2007 , 75,	3-3	13

103	Quantum oscillation evidence for a topological semimetal phase in ZrSnTe. <i>Physical Review B</i> , 2018 , 97,	3.3	12
102	A full monolayer of superoxide: oxygen activation on the unmodified CaRuO(001) surface. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5703-5713	13	12
101	Itinerant ferromagnetism and geometrically suppressed metal-insulator transition in epitaxial thin films of Ca ₂ RuO ₄ . <i>Applied Physics Letters</i> , 2012 , 100, 052401	3.4	12
100	Complex electronic states in double-layered ruthenates (Sr _{1-x} Cax) ₃ Ru ₂ O ₇ . <i>Physical Review B</i> , 2009 , 80,	3.3	12
99	Thermoelectric power properties of graphitic nanotubule bundles. <i>Journal of Applied Physics</i> , 1997 , 82, 3164-3166	2.5	12
98	Experimental evidence of crystal symmetry protection for the topological nodal line semimetal state in ZrSiS. <i>Physical Review B</i> , 2019 , 100,	3.3	12
97	Evidence for unconventional superconductivity in half-Heusler YPdBi and TbPdBi compounds revealed by London penetration depth measurements. <i>Physical Review B</i> , 2018 , 98,	3.3	12
96	Existence of electron and hole pockets and partial gap opening in the correlated semimetal Ca ₃ Ru ₂ O ₇ . <i>Physical Review B</i> , 2018 , 97,	3.3	11
95	Ferromagnetism in CuFeSb: Evidence of competing magnetic interactions in iron-based superconductors. <i>Physical Review B</i> , 2012 , 85,	3.3	11
94	Absence of the O17 Knight-shift changes across the first-order phase transition line in Sr ₂ RuO ₄ . <i>Physical Review B</i> , 2016 , 94,	3.3	11
93	Ordered hydroxyls on CaRuO(001). <i>Nature Communications</i> , 2017 , 8, 23	17.4	10
92	Magnetoresistance and Shubnikov-de Haas oscillations in layered Nb ₃ SiTe ₆ thin flakes. <i>Physical Review B</i> , 2018 , 97,	3.3	10
91	Infrared spectroscopy study of the nodal-line semimetal candidate ZrSiTe under pressure: Hints for pressure-induced phase transitions. <i>Physical Review B</i> , 2019 , 99,	3.3	10
90	Point defects at cleaved Sr _{n+1} Ru _n O _{3n+1} (001) surfaces. <i>Physical Review B</i> , 2014 , 90,	3.3	10
89	Reduction of the Spin Susceptibility in the Superconducting State of Sr ₂ RuO ₄ Observed by Polarized Neutron Scattering. <i>Physical Review Letters</i> , 2020 , 125, 217004	7.4	10
88	Strong lattice correlation of non-equilibrium quasiparticles in a pseudospin-1/2 Mott insulator Sr ₂ IrO ₄ . <i>Scientific Reports</i> , 2016 , 6, 19302	4.9	10
87	Absence of a Large Superconductivity-Induced Gap in Magnetic Fluctuations of Sr ₂ RuO ₄ . <i>Physical Review Letters</i> , 2017 , 118, 147002	7.4	9
86	Doping and dimensionality effects on the core-level spectra of layered ruthenates. <i>Physical Review B</i> , 2010 , 81,	3.3	9

85	Directional massless Dirac fermions in a layered van der Waals material with one-dimensional long-range order. <i>Nature Materials</i> , 2020 , 19, 27-33	27	9
84	High yield production of ultrathin fibroid semiconducting nanowire of Ta ₂ Pd ₃ Se ₈ . <i>Nano Research</i> , 2020 , 13, 1627-1635	10	8
83	Indications for Lifshitz transitions in the nodal-line semimetal ZrSiTe induced by interlayer interaction. <i>Physical Review B</i> , 2020 , 101,	3-3	8
82	Exceptionally large anomalous Hall effect due to anticrossing of spin-split bands in the antiferromagnetic half-Heusler compound TbPtBi. <i>Physical Review B</i> , 2020 , 101,	3-3	8
81	Searching for topological Fermi arcs via quasiparticle interference on a type-II Weyl semimetal MoTe ₂ . <i>Npj Quantum Materials</i> , 2018 , 3,	5	8
80	Fermi surface sheet-dependent band splitting in Sr ₂ RuO ₄ revealed by high-resolution angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2012 , 86,	3-3	8
79	Momentum densities, Fermi surfaces, and their temperature dependences in Sr ₂ RuO ₄ studied by Compton scattering. <i>Physical Review B</i> , 2006 , 74,	3-3	8
78	Unusual oscillation in tunneling magnetoresistance near a quantum critical point in Sr ₃ Ru ₂ O ₇ . <i>Physical Review Letters</i> , 2004 , 92, 257206	7-4	8
77	IrO ₂ Surface Complexions Identified through Machine Learning and Surface Investigations. <i>Physical Review Letters</i> , 2020 , 125, 206101	7-4	8
76	Electric field induced metallic behavior in thin crystals of ferroelectric Hn ₂ Se ₃ . <i>Applied Physics Letters</i> , 2020 , 117, 052901	3-4	8
75	Mid-wave to near-IR optoelectronic properties and epsilon-near-zero behavior in indium-doped cadmium oxide. <i>Physical Review Materials</i> , 2021 , 5,	3-2	8
74	Direct evidence of ferromagnetism in MnSb ₂ Te ₄ . <i>Physical Review B</i> , 2021 , 103,	3-3	8
73	Using coherent phonons for ultrafast control of the Dirac node of SrMnSb ₂ . <i>Physical Review B</i> , 2018 , 98,	3-3	8
72	Mott transition controlled by lattice-orbital coupling in 3d-metal-doped double-layer ruthenates. <i>Physical Review B</i> , 2017 , 96,	3-3	7
71	Raman detection of hidden phonons assisted by atomic point defects in a two-dimensional semimetal. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	7
70	Spin-orbit coupling and weak antilocalization in the thermoelectric material KBiSe ₃ . <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 095801	1.8	7
69	Magnetic structure of quasi-one-dimensional antiferromagnetic TaFe _{1+y} Te ₃ . <i>Physical Review B</i> , 2012 , 85,	3-3	7
68	Spin-wave excitation in the antiferromagnetic bilayer ruthenate Ca ₃ Ru ₂ O ₇ . <i>Physical Review B</i> , 2011 , 84,	3-3	7

67	Ferromagnetism in van der Waals compound MnSb _{1.8} Bi _{0.2} Te ₄ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	7
66	Magnetic phase separation in double layer ruthenates Ca ₃ (Ru _(1-x) Ti _(x)) ₂ O ₇ . <i>Scientific Reports</i> , 2016 , 6, 19462	4.9	7
65	Pressure-induced electronic and magnetic phase transitions in a Mott insulator: Ti-doped Ca ₃ Ru ₂ O ₇ bilayer ruthenate. <i>Physical Review B</i> , 2016 , 94,	3.3	7
64	Tuning the competing phases of bilayer ruthenate Ca ₃ Ru ₂ O ₇ via dilute Mn impurities and magnetic field. <i>Physical Review B</i> , 2017 , 95,	3.3	6
63	Temperature- and field-driven spin reorientations in triple-layer ruthenate SrRuO ₃ . <i>Scientific Reports</i> , 2018 , 8, 3914	4.9	6
62	Resistivity of Weyl semimetals NbP and TaP under pressure. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1700182	2.5	6
61	The Low Temperature Microwave Properties of GdBa ₂ Cu ₃ O _{7-x} and Sr ₂ RuO ₄ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2001 , 14, 73-79		6
60	Structure and transport properties of Cr doped La ₂ 14 system. <i>Physica C: Superconductivity and Its Applications</i> , 1999 , 314, 263-268	1.3	6
59	Recent advancements in the study of intrinsic magnetic topological insulators and magnetic Weyl semimetals. <i>APL Materials</i> , 2020 , 8, 090701	5.7	6
58	Cold sintering of magnetic BaFe ₁₂ O ₁₉ and other ferrites at 300 °C. <i>Journal of Materials Science</i> , 2021 , 56, 11229-11236	4.3	6
57	Origins of electronic bands in the antiferromagnetic topological insulator MnBi ₂ Te ₄ . <i>Physical Review B</i> , 2021 , 104,	3.3	6
56	Visualizing Dirac nodal-line band structure of topological semimetal ZrGeSe by ARPES. <i>APL Materials</i> , 2019 , 7, 051105	5.7	5
55	Surface Instability and Chemical Reactivity of ZrSiS and ZrSiSe Nodal-Line Semimetals. <i>Advanced Functional Materials</i> , 2019 , 29, 1900438	15.6	5
54	Field-induced magnetic phase transitions and memory effect in bilayer ruthenate CaRuO ₃ with Fe substitution. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 075802	1.8	5
53	Nanoscale Inhomogeneous Superconductivity in Fe(Te _{1-x} Sex) Probed by Nanostructure Transport. <i>ACS Nano</i> , 2016 , 10, 429-35	16.7	5
52	Plaquette instability competing with bicollinear ground state in detwinned FeTe. <i>Physical Review B</i> , 2019 , 100,	3.3	5
51	Influence of magnetism on Dirac semimetallic behavior in nonstoichiometric Sr _{1-y} Mn _{1-z} Sb ₂ (y~0.07,z~0.02). <i>Physical Review B</i> , 2019 , 100,	3.3	5
50	Modified magnetism within the coherence volume of superconducting Fe _{1+δ} SexTe _{1-x} . <i>Physical Review B</i> , 2014 , 90,	3.3	5

49	Possible nodal superconducting gap in Fe _{1+y} (Te _{1-x} Se _x) single crystals from ultralow temperature penetration depth measurements. <i>Physical Review B</i> , 2013 , 88,	3.3	5
48	Weak ferromagnetism of Cu _x Fe _{1+y} As and its evolution with Co doping. <i>Physical Review B</i> , 2015 , 91,	3.3	5
47	Elastic moduli of unconventional superconductor Sr ₂ RuO ₄ . <i>Physica B: Condensed Matter</i> , 2002 , 312-313, 800-802	2.8	5
46	Subtle metastability of the layered magnetic topological insulator MnBi ₂ Te ₄ from weak interactions. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	5
45	Quantum Transport of the 2D Surface State in a Nonsymmorphic Semimetal. <i>Nano Letters</i> , 2021 , 21, 4887-4893	11.5	5
44	Emergence of a competing stripe phase near the Mott transition in Ti-doped bilayer calcium ruthenates. <i>Physical Review B</i> , 2020 , 101,	3.3	4
43	STEM and EELS Investigation on Black Phosphorus at Atomic Resolution. <i>Microscopy and Microanalysis</i> , 2015 , 21, 427-428	0.5	4
42	Effect of disorder on quantum phase transition in the double layered ruthenates (Sr _{1-x} Cax) ₃ Ru ₂ O ₇ . <i>Physical Review B</i> , 2012 , 86,	3.3	4
41	Ion intercalation engineering of electronic properties of two-dimensional crystals of 2H-TaSe ₂ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	4
40	Surface charge induced Dirac band splitting in a charge density wave material (TaSe ₄) ₂ I. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
39	Inherited weak topological insulator signatures in the topological hourglass semimetal Nb ₃ XTe ₆ (X=Si, Ge). <i>Physical Review B</i> , 2021 , 103,	3.3	4
38	Nano-imaging of strain-tuned stripe textures in a Mott crystal. <i>Npj Quantum Materials</i> , 2021 , 6,	5	4
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