

# He-Chang Lei

## List of Publications by Citations

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202  
papers

5,078  
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228  
ext. papers

7,321  
ext. citations

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avg, IF

5.88  
L-index

#	Paper	IF	Citations
202	Large intrinsic anomalous Hall effect in half-metallic ferromagnet CoSnS with magnetic Weyl fermions. <i>Nature Communications</i> , <b>2018</b> , 9, 3681	17.4	240
201	One Million Percent Tunnel Magnetoresistance in a Magnetic van der Waals Heterostructure. <i>Nano Letters</i> , <b>2018</b> , 18, 4885-4890	11.5	147
200	Negative flat band magnetism in a spin-orbit-coupled correlated kagome magnet. <i>Nature Physics</i> , <b>2019</b> , 15, 443-448	16.2	132
199	Observation of unconventional chiral fermions with long Fermi arcs in CoSi. <i>Nature</i> , <b>2019</b> , 567, 496-499	50.4	129
198	Evolution of interlayer and intralayer magnetism in three atomically thin chromium trihalides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 11131-11136	11.5	120
197	Two-Dimensional Transition-Metal Electride Y2C. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6638-6643	9.6	113
196	Compensated Semimetal LaSb with Unsaturated Magnetoresistance. <i>Physical Review Letters</i> , <b>2016</b> , 117, 127204	7.4	104
195	Pauli-limited upper critical field of Fe <sub>1+y</sub> Te <sub>1-x</sub> Se <sub>x</sub> . <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	102
194	Large magnetoresistance in LaBi: origin of field-induced resistivity upturn and plateau in compensated semimetals. <i>New Journal of Physics</i> , <b>2016</b> , 18, 082002	2.9	101
193	Dirac Surface States in Intrinsic Magnetic Topological Insulators EuSn <sub>2</sub> As <sub>2</sub> and MnBi <sub>2</sub> nTe <sub>3n+1</sub> . <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	99
192	Quantum transport of two-dimensional Dirac fermions in SrMnBi <sub>2</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	96
191	Ferromagnetic van der Waals Crystal VI. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5326-5333	16.4	88
190	Ligand-Hole in [SnI <sub>6</sub> ] Unit and Origin of Band Gap in Photovoltaic Perovskite Variant Cs <sub>2</sub> SnI <sub>6</sub> . <i>Bulletin of the Chemical Society of Japan</i> , <b>2015</b> , 88, 1250-1255	5.1	83
189	Two-dimensional Dirac fermions and quantum magnetoresistance in CaMnBi <sub>2</sub> . <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	82
188	New layered fluorosulfide SrFBiS <sub>2</sub> . <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 10685-9	5.1	73
187	Se <sup>77</sup> NMR investigation of the KxFe <sub>2</sub> ySe <sub>2</sub> high-T <sub>c</sub> superconductor (T <sub>c</sub> =33 K). <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	71
186	Superconductivity and phase instability of NH <sub>3</sub> -free Na-intercalated FeSe(1-z)S(z). <i>Nature Communications</i> , <b>2014</b> , 5, 4756	17.4	70

185	Critical fields, thermally activated transport, and critical current density of $\text{FeSe}$ single crystals. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	69
184	Raman fingerprint of two terahertz spin wave branches in a two-dimensional honeycomb Ising ferromagnet. <i>Nature Communications</i> , <b>2018</b> , 9, 5122	17.4	68
183	Kinetic versus thermodynamic control over growth process of electrodeposited Bi/BiSb superlattice nanowires. <i>Nano Letters</i> , <b>2008</b> , 8, 1286-90	11.5	67
182	Superconductivity and Normal-State Properties of Kagome Metal $\text{RbV}_3\text{Sb}_5$ Single Crystals. <i>Chinese Physics Letters</i> , <b>2021</b> , 38, 037403	1.8	67
181	Anisotropy in $\text{BaFe}_2\text{Se}_3$ single crystals with double chains of $\text{FeSe}$ tetrahedra. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	64
180	Double Superconducting Dome and Triple Enhancement of $T_c$ in the Kagome Superconductor $\text{CsV}_3\text{Sb}_5$ under High Pressure. <i>Physical Review Letters</i> , <b>2021</b> , 126, 247001	7.4	63
179	Phase diagram of $\text{K}(x)\text{Fe}(2-y)\text{Se}(2-z)\text{S}(z)$ and the suppression of its superconducting state by an $\text{Fe}_2\text{-Se/S}$ tetrahedron distortion. <i>Physical Review Letters</i> , <b>2011</b> , 107, 137002	7.4	62
178	Anomalous Hall effect in a ferromagnetic $\text{Fe}_3\text{Sn}_2$ single crystal with a geometrically frustrated $\text{Fe}$ bilayer kagome lattice. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	60
177	Synthesis, crystal structure, and magnetism of $\text{Fe}_{1.00(2)}\text{Se}_{1.00(3)}$ single crystals. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	55
176	Crystal growth and superconductivity of $\text{FeSe}_x$ . <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 015020	9.1	53
175	Pressure Induced Stripe-Order Antiferromagnetism and First-Order Phase Transition in $\text{FeSe}$ . <i>Physical Review Letters</i> , <b>2016</b> , 117, 237001	7.4	53
174	Emergence of topological bands on the surface of $\text{ZrSnTe}$ crystal. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	50
173	Tunable anomalous Hall conductivity through volume-wise magnetic competition in a topological kagome magnet. <i>Nature Communications</i> , <b>2020</b> , 11, 559	17.4	47
172	Interplay of magnetism and superconductivity in the compressed $\text{Fe}$ -ladder compound $\text{BaFe}_2\text{Se}_3$ . <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	47
171	Roton pair density wave in a strong-coupling kagome superconductor. <i>Nature</i> , <b>2021</b> , 599, 222-228	50.4	47
170	Spin-glass behavior of semiconducting $\text{KxFe}_2\text{S}_2$ . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	46
169	Multiband effects on $\text{FeSe}$ single crystals. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	46
168	Thermally activated energy and flux-flow Hall effect of $\text{Fe}_{1+y}(\text{Te}_{1+x}\text{S}_x)_z$ . <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	43

- 167 Evidence of topological insulator state in the semimetal LaBi. *Physical Review B*, **2017**, 95, 3-3 42
- 166 Vacancy-induced nanoscale phase separation in  $K_xFe_2Se_2$  single crystals evidenced by Raman scattering and powder x-ray diffraction. *Physical Review B*, **2012**, 86, 3-3 42
- 165 Crossover of critical behavior in  $La_{0.7}Ca_{0.3}Mn_{1-x}Ti_xO_3$ . *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 242-246 2.8 42
- 164 Coexistence of bulk superconductivity and charge density wave in  $Cu_xZrTe_3$ . *Physical Review Letters*, **2011**, 106, 246404 7.4 40
- 163 Anisotropy in transport and magnetic properties of  $K_{0.64}Fe_{1.44}Se_2$ . *Physical Review B*, **2011**, 83, 3-3 39
- 162 Orbital-selective Dirac fermions and extremely flat bands in frustrated kagome-lattice metal CoSn. *Nature Communications*, **2020**, 11, 4002 17.4 38
- 161 Preparation and characterization of  $CuAlO_2$  transparent thin films prepared by chemical solution deposition method. *Journal of Sol-Gel Science and Technology*, **2010**, 53, 641-646 2-3 37
- 160 Modulation effect of interlayer spacing on the superconductivity of electron-doped FeSe-based intercalates. *Inorganic Chemistry*, **2015**, 54, 3346-51 5-1 36
- 159 Effects of excess Fe on upper critical field and magnetotransport in  $Fe_{1+y}(Te_{1-x}S_x)_z$ . *Physical Review B*, **2010**, 81, 3-3 35
- 158 High- $T_c$  superconductivity up to 55 K under high pressure in a heavily electron doped  $Li_{0.36}(NH_3)_yFe_2Se_2$  single crystal. *Physical Review B*, **2018**, 97, 3-3 33
- 157 Signatures of charge inhomogeneities in the infrared spectra of topological insulators  $Bi_2Se_3$ ,  $Bi_2Te_3$  and  $Sb_2Te_3$ . *Journal of Physics Condensed Matter*, **2013**, 25, 075501 1.8 33
- 156 Giant increase in critical current density of  $K_xFe_2Se_2$  single crystals. *Physical Review B*, **2011**, 84, 3-3 33
- 155 Experimental Observation of Dirac Nodal Links in Centrosymmetric Semimetal  $TiB_2$ . *Physical Review X*, **2018**, 8, 9.1 32
- 154 Superconductivity in noncentrosymmetric ternary equiatomic pnictides  $LaMP$  ( $M = Ir$  and  $Rh$ ;  $P = P$  and  $As$ ). *Physical Review B*, **2014**, 89, 3-3 32
- 153 Effects of Mg substitution on the structural, optical, and electrical properties of  $CuAlO_2$  thin films. *Journal of Alloys and Compounds*, **2011**, 509, 1768-1773 5-7 32
- 152 Preparation of  $SrMoO_4$  thin films on Si substrates by chemical solution deposition. *Journal of Crystal Growth*, **2008**, 310, 789-793 1.6 30
- 151 S-Wave Superconductivity in Kagome Metal  $CsV_3Sb_5$  Revealed by  $^{121}/^{123}Sb$  NQR and 51V NMR Measurements. *Chinese Physics Letters*, **2021**, 38, 077402 1.8 30
- 150 Ultrafast extreme rejuvenation of metallic glasses by shock compression. *Science Advances*, **2019**, 5, eaaw6249 6.3 29

149	Tailored Tunnel Magnetoresistance Response in Three Ultrathin Chromium Trihalides. <i>Nano Letters</i> , <b>2019</b> , 19, 5739-5745	11.5	29
148	Iron chalcogenide superconductors at high magnetic fields. <i>Science and Technology of Advanced Materials</i> , <b>2012</b> , 13, 054305	7.1	29
147	Structural, magnetic, and electrical properties of $\text{Li}_2\text{Ir}_{1-x}\text{Ru}_x\text{O}_3$ . <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	28
146	Enhanced low temperature thermoelectric performance of Ag-doped $\text{BiCuSeO}$ . <i>Applied Physics Letters</i> , <b>2014</b> , 105, 082109	3.4	28
145	Low superfluid density and possible multigap superconductivity in the $\text{BiS}_2$ -based layered superconductor $\text{Bi}_4\text{O}_4\text{S}_3$ . <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	28
144	Extreme anisotropy and anomalous transport properties of heavily electron doped $\text{Li}_x(\text{NH}_3)_y\text{Fe}_2\text{Se}_2$ single crystals. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	27
143	Experimental observation of bulk nodal lines and electronic surface states in $\text{ZrB}_2$ . <i>Npj Quantum Materials</i> , <b>2018</b> , 3,	5	27
142	Localized spin-orbit polaron in magnetic Weyl semimetal $\text{CoSnS}$ . <i>Nature Communications</i> , <b>2020</b> , 11, 5613	17.4	26
141	Large magnetoresistance in the type-II Weyl semimetal $\text{WP}_2$ . <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	26
140	Divergency of SDW and structure transition in $\text{Fe}_{1-x}\text{Ni}_x\text{Se}_{0.82}$ superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2009</b> , 469, 1958-1961	1.3	26
139	Narrow bandgap in $\text{BaZnAs}_2$ and its chemical origins. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 14959-65	16.4	25
138	Superconductivity of $\text{FeSe}_{0.89}$ crystal with hexagonal and tetragonal structures. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 075016	3.1	24
137	Surface-induced magnetic fluctuations in a single-crystal $\text{NiBi}_3$ superconductor. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	23
136	Magnetic topological insulator $\text{MnBi}_6\text{Te}_{10}$ with a zero-field ferromagnetic state and gapped Dirac surface states. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	23
135	Anisotropic magnetic entropy change in the hard ferromagnetic semiconductor $\text{VI}_3$ . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	22
134	Thermoelectric studies of $\text{K}_x\text{Fe}_2\text{VSe}_2$ indicating a weakly correlated superconductor. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	22
133	Superconductivity of Ni-doping $2\text{H-TaS}_2$ . <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, 313-317	1.3	22
132	Intrinsic nature of chiral charge order in the kagome superconductor $\text{RbV}_3\text{Sb}_5$ . <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	22

131	Local orbital degeneracy lifting as a precursor to an orbital-selective Peierls transition. <i>Nature Communications</i> , <b>2019</b> , 10, 3638	17.4	21
130	Structure and physical properties of the layered iron oxychalcogenide BaFe <sub>2</sub> Se <sub>2</sub> O. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	21
129	Raising T <sub>c</sub> in charge density wave superconductor ZrTe <sub>3</sub> by Ni intercalation. <i>Europhysics Letters</i> , <b>2011</b> , 95, 17011	1.6	21
128	Intrinsic Anomalous Nernst Effect Amplified by Disorder in a Half-Metallic Semimetal. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	21
127	Magnetic-Field-Induced Quantum Phase Transitions in a van der Waals Magnet. <i>Physical Review X</i> , <b>2020</b> , 10,	9.1	20
126	Spin-orbit quantum impurity in a topological magnet. <i>Nature Communications</i> , <b>2020</b> , 11, 4415	17.4	20
125	Phononic Helical Nodal Lines with PT Protection in MoB <sub>2</sub> . <i>Physical Review Letters</i> , <b>2019</b> , 123, 245302	7.4	20
124	Epitaxial antiperovskite superconducting CuNNi <sub>3</sub> thin films synthesized by chemical solution deposition. <i>Chemical Communications</i> , <b>2014</b> , 50, 12734-7	5.8	19
123	Antiferromagnetism in semiconducting KFe <sub>0.85</sub> Ag <sub>1.15</sub> Te <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	19
122	Electronic correlations and flattened band in magnetic Weyl semimetal candidate CoSnS. <i>Nature Communications</i> , <b>2020</b> , 11, 3985	17.4	19
121	Dirac cone, flat band and saddle point in kagome magnet YMnSn. <i>Nature Communications</i> , <b>2021</b> , 12, 3129	7.4	19
120	Local structural disorder and superconductivity in KxFe <sub>2-y</sub> Se <sub>2</sub> . <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	18
119	Imaging Domain Reversal in an Ultrathin Van der Waals Ferromagnet. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003314	2.1	18
118	Chiral fermion reversal in chiral crystals. <i>Nature Communications</i> , <b>2019</b> , 10, 5505	17.4	17
117	Field-induced topological Hall effect and double-fan spin structure with a c-axis component in the metallic kagome antiferromagnetic compound YMn <sub>6</sub> Sn <sub>6</sub> . <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	17
116	Phonon and magnon excitations in block-antiferromagnetic K <sub>0.88</sub> Fe <sub>1.63</sub> S <sub>2</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	16
115	Influence of annealing temperature on surface morphology and magnetic properties of Ni <sub>0.7</sub> Zn <sub>0.3</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2010</b> , 167, 70-73	3.1	16
114	Spontaneous (Anti)meron Chains in the Domain Walls of van der Waals Ferromagnetic Fe <sub>3</sub> GeTe <sub>5</sub> . <i>Advanced Materials</i> , <b>2020</b> , 32, e2005228	24	16

113	Robust short-range-ordered nematicity in FeSe evidenced by high-pressure NMR. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	15
112	Template Epitaxial Growth of Thermoelectric Bi/BiSb Superlattice Nanowires by Charge-Controlled Pulse Electrodeposition. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, K149	3.9	15
111	Effects of citric acid on properties of single phase CuAlO <sub>2</sub> thin films derived by chemical solution deposition. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 487, 404-408	5.7	15
110	Growth of Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> films: Simple chemical solution deposition and stress induced spontaneous dewetting. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 103519	2.5	15
109	Quantum Transport Evidence of Topological Band Structures of Kagome Superconductor CsV <sub>3</sub> Sb <sub>5</sub> . <i>Physical Review Letters</i> , <b>2021</b> , 127, 207002	7.4	15
108	Quasiparticle interference evidence of the topological Fermi arc states in chiral fermionic semimetal CoSi. <i>Science Advances</i> , <b>2019</b> , 5, eaaw9485	14.3	15
107	Probing IrTe <sub>2</sub> crystal symmetry by polarized Raman scattering. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	14
106	Magnetism in La <sub>2</sub> O <sub>3</sub> (Fe <sub>1-x</sub> Mnx) <sub>2</sub> Se <sub>2</sub> tuned by Fe/Mn ratio. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	14
105	Charge-Density-Wave-Induced Bands Renormalization and Energy Gaps in a Kagome Superconductor RbV <sub>3</sub> Sb <sub>5</sub> . <i>Physical Review X</i> , <b>2021</b> , 11,	9.1	14
104	Fermion-boson many-body interplay in a frustrated kagome paramagnet. <i>Nature Communications</i> , <b>2020</b> , 11, 4003	17.4	14
103	Type-I superconductivity in KBi <sub>4</sub> single crystals. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 085701	1.8	13
102	Emergence of magnetism and controlling factors of superconductivity in Li/Na-ammonia cointercalated FeSe <sub>1-x</sub> Te <sub>x</sub> . <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	13
101	Lattice dynamics of KNi <sub>2</sub> Se <sub>2</sub> . <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	13
100	Evolution of correlation strength in KxFe <sub>2-y</sub> Se <sub>2</sub> superconductor doped with S. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	13
99	Large magnetocaloric effect in van der Waals crystal CrBr <sub>3</sub> . <i>Frontiers of Physics</i> , <b>2019</b> , 14, 1	3.7	12
98	Local corrugation and persistent charge density wave in ZrTe <sub>3</sub> with Ni intercalation. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	12
97	Magnetic-Field Control of Topological Electronic Response near Room Temperature in Correlated Kagome Magnets. <i>Physical Review Letters</i> , <b>2019</b> , 123, 196604	7.4	12
96	Signatures of the spin-phonon coupling in . <i>Solid State Communications</i> , <b>2014</b> , 193, 51-55	1.6	12

95	Chemical Solution Deposition of Transparent and Metallic $\text{La}_{0.5}\text{Sr}_{0.5}\text{TiO}_{3+x/2}$ Films Using Topotactic Reduction. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 800-804	3.8	12
94	Magnetic field annealing effects on self-oriented $\text{BiFeO}_3$ thin films prepared by chemical solution deposition. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2010</b> , 322, 2647-2652	2.8	12
93	Seed layer, solution concentration and thickness effects on CSD-derived $\text{La}_2\text{Zr}_2\text{O}_7$ buffer layers for coated conductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 467, 73-79	1.3	12
92	Mott Transition and Superconductivity in Quantum Spin Liquid Candidate $\text{NaYbSe}_2$ . <i>Chinese Physics Letters</i> , <b>2020</b> , 37, 097404	1.8	12
91	Observation of the polaronic character of excitons in a two-dimensional semiconducting magnet $\text{CrI}_3$ . <i>Nature Communications</i> , <b>2020</b> , 11, 4780	17.4	12
90	Magneto-Memristive Switching in a 2D Layer Antiferromagnet. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905433	2.4	12
89	$\text{CuSe}$ -based layered compound $\text{Bi}_2\text{YO}_4\text{Cu}_2\text{Se}_2$ as a quasi-two-dimensional metal. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	11
88	Study on chemical solution deposition of aluminum-doped zinc oxide films. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 505, 434-442	5.7	11
87	Superconductivity and single crystal growth of $\text{Ni}_{0.05}\text{TaS}_2$ . <i>Solid State Communications</i> , <b>2009</b> , 149, 1296-1299	1.899	11
86	Critical current density and mechanism of vortex pinning in $\text{KxFe}_2\text{VSe}_2$ doped with S. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	11
85	Unconventional charge density wave and photoinduced lattice symmetry change in the kagome metal $\text{CsV}_3\text{Sb}_5$ probed by time-resolved spectroscopy. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	11
84	Novel Superstructure-Phase Two-Dimensional Material $1\text{-VSe}$ at High Pressure. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 380-386	6.4	11
83	Extremely large magnetoresistance and high-density Dirac-like fermions in $\text{ZrB}_2$ . <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	10
82	Comparative study of the structural, optical, and electrical properties of $\text{CuAlO}_2$ thin films on $\text{Al}_2\text{O}_3$ and YSZ substrates via chemical solution deposition. <i>Journal of Sol-Gel Science and Technology</i> , <b>2011</b> , 58, 12-17	2.3	10
81	Synthesis and characterization of self-assembled c-axis oriented $\text{Bi}_2\text{Sr}_3\text{Co}_2\text{O}_{(y)}$ thin films by the sol-gel method. <i>Dalton Transactions</i> , <b>2011</b> , 40, 9544-50	4.3	10
80	Large magnetoresistance induced by surface ferromagnetism in A-type antiferromagnetic $\text{La}_{0.4}\text{Sr}_{0.6}\text{MnO}_3$ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 2009-2014	2.8	10
79	Upper critical fields and superconducting anisotropy of $\text{K}_{0.70}\text{Fe}_{1.55}\text{Se}_{1.01}\text{S}_{0.99}$ and $\text{K}_{0.76}\text{Fe}_{1.61}\text{Se}_{0.96}\text{S}_{1.04}$ single crystals. <i>Europhysics Letters</i> , <b>2011</b> , 95, 57006	1.6	10
78	Time-reversal symmetry-breaking charge order in a kagome superconductor.. <i>Nature</i> , <b>2022</b> , 602, 245-250	5.0.4	10



77	Lattice dynamics of BaFe <sub>2</sub> X <sub>3</sub> (X=S,Se) compounds. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	9
76	Superconductivity in Alkaline Earth Metal-Filled Skutterudites BaIrX (X = As, P). <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8106-8109	16.4	9
75	Phonon and magnetic dimer excitations in Fe-based S=2 spin-ladder compound BaFe <sub>2</sub> Se <sub>2</sub> O. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	9
74	Growth and optical properties of transparent CaMoO <sub>4</sub> films by chemical solution deposition on Si and glass substrates. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 045404	3	9
73	Effect of Cr doping on the optical/electrical property of CuAlO <sub>2</sub> thin films derived by chemical solution deposition. <i>Thin Solid Films</i> , <b>2011</b> , 519, 2559-2563	2.2	9
72	Intertwined Magnetic and Nematic Orders in Semiconducting KFe <sub>0.8</sub> Ag <sub>1.2</sub> Te <sub>2</sub> . <i>Physical Review Letters</i> , <b>2019</b> , 122, 087201	7.4	8
71	Superconductivity in Ba <sub>n+2</sub> Ir <sub>4n</sub> Ge <sub>12n+4</sub> (n=1,2) with cage structure and softening of low-lying localized mode. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	8
70	Electronic Griffiths phase in the Te-doped semiconductor FeSb <sub>2</sub> . <i>Physical Review Letters</i> , <b>2012</b> , 109, 256401	4.0	8
69	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 3819-3823	1.8	8
68	Geometry of the charge density wave in the kagome metal AV <sub>3</sub> Sb <sub>5</sub> . <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	8
67	Competition between charge-density-wave and superconductivity in the kagome metal RbV <sub>3</sub> Sb <sub>5</sub> . <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	8
66	Giant topological Hall effect of ferromagnetic kagome metal Fe <sub>3</sub> Sn <sub>2</sub> . <i>Chinese Physics B</i> , <b>2020</b> , 29, 017101	1.2	8
65	Tunable layered-magnetism-assisted magneto-Raman effect in a two-dimensional magnet CrI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 24664-24669	11.5	8
64	Quasi-two-dimensional superconductivity from dimerization of atomically ordered AuTeSe cubes. <i>Nature Communications</i> , <b>2017</b> , 8, 871	17.4	7
63	Growth and photoluminescence of (00l)-oriented RMoO <sub>4</sub> films by chemical solution deposition. <i>Materials Letters</i> , <b>2010</b> , 64, 344-346	3.3	7
62	Absence of local fluctuating dimers in superconducting Ir <sub>1-x</sub> (Pt,Rh) <sub>x</sub> Te <sub>2</sub> . <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	7
61	Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal CsV Sb. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102813	24	7
60	Enhanced superconductivity and anisotropy of FeTe <sub>0.6</sub> Se <sub>0.4</sub> single crystals with Li <sub>1-x</sub> H <sub>3</sub> intercalation. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	6

59	Raman scattering study of two-dimensional magnetic van der Waals compound VI3. <i>Chinese Physics B</i> , <b>2020</b> , 29, 056301	1.2	6
58	Probing the direct factor for superconductivity in FeSe-Based Superconductors by Raman Scattering. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	6
57	Spin glass in semiconducting KFe <sub>1.05</sub> Ag <sub>0.88</sub> Te <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	6
56	Insulating and metallic spin glass in Ni-doped KxFe <sub>2</sub> Se <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	6
55	Magnetic properties and dopant-dependent exchange bias in Ti-doped charge ordered Bi <sub>0.4</sub> Ca <sub>0.6</sub> MnO <sub>3</sub> . <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 185001	3	6
54	Effects of magnetic field on grain growth of non-ferromagnetic metals: A Monte Carlo simulation. <i>Europhysics Letters</i> , <b>2009</b> , 85, 38004	1.6	6
53	Twist engineering of the two-dimensional magnetism in double bilayer chromium triiodide homostructures. <i>Nature Physics</i> ,	16.2	6
52	Spin-Reorientation-Induced Band Gap in Fe <sub>3</sub> Sn <sub>2</sub> : Optical Signatures of Weyl Nodes. <i>Physical Review Letters</i> , <b>2020</b> , 125, 076403	7.4	6
51	Strong charge density wave fluctuation and sliding state in PdTeI with quasi-one-dimensional PdTe chains. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	5
50	Layered oxyselenides Sr <sub>2</sub> Co <sub>1-x</sub> MnxO <sub>2</sub> Cu <sub>2</sub> Be <sub>2</sub> : The evolution of magnetic properties tuned by the competed interactions. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 598, 171-176	5.7	5
49	Massive fermions with low mobility in antiferromagnet orthorhombic CuMnAs single crystals. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	5
48	Narrow-gap semiconducting properties of KMgBi with multiband feature. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	5
47	Evidence of superconductivity-induced phonon spectra renormalization in alkali-doped iron selenides. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 485701	1.8	5
46	Excitation spectrum in Ni- and Cu-doped ZrTe <sub>3</sub> . <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	5
45	Electron spin resonance study of a CuIr <sub>2</sub> S <sub>4</sub> single crystal. <i>Philosophical Magazine</i> , <b>2013</b> , 93, 1132-1141	1.6	5
44	Electronic structure of the iron chalcogenide KFeAgTe <sub>2</sub> revealed by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	5
43	Pressure effect on the anomalous Hall effect of ferromagnetic Weyl semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	5
42	Layer-Number-Dependent Antiferromagnetic and Ferromagnetic Behavior in MnSb <sub>2</sub> Te <sub>4</sub> . <i>Physical Review Letters</i> , <b>2022</b> , 128, 017201	7.4	5

41	Direct observation of competition between charge order and itinerant ferromagnetism in the van der Waals crystal Fe <sub>5</sub> GeTe <sub>2</sub> . <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	5
40	Local structure study of Fe dopants in Ni-deficient Ni <sub>3</sub> Al alloys. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 651, 705-711	5.7	4
39	Physical properties of K(x)Ni(2-y)Se <sub>2</sub> single crystals. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 015701	3.8	4
38	Superconductivity and physical properties of strongly electron correlated compounds La <sub>n</sub> Ru <sub>3n-1</sub> B <sub>2n</sub> (n = 1, 2, and 3). <i>Europhysics Letters</i> , <b>2013</b> , 104, 17003	1.6	4
37	Effects of disorder and hydrostatic pressure on charge density wave and superconductivity in 2H-TaS <sub>2</sub> . <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	4
36	Thermoelectric studies of Ir <sub>1-x</sub> Rh <sub>x</sub> Te <sub>2</sub> (0 ≤ x ≤ 0.3). <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	4
35	Critical current density and vortex pinning mechanism of Li <sub>x</sub> (NH <sub>3</sub> ) <sub>y</sub> Fe <sub>2</sub> Te <sub>1.2</sub> Se <sub>0.8</sub> single crystals. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 115005	3.1	3
34	Phonon anomalies and magnetic excitations in BaFe <sub>2</sub> Se <sub>2</sub> O. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	3
33	Layered compounds BaM <sub>2</sub> Ge <sub>4</sub> Ch <sub>6</sub> (M = Rh, Ir and Ch = S, Se) with pyrite-type building blocks and Ge-Ch heteromolecule-like anions. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 5684-91	5.1	3
32	Charge-Density-Wave-Induced Peak-Dip-Hump Structure and the Multiband Superconductivity in a Kagome Superconductor CsV <sub>3</sub> Sb <sub>5</sub> . <i>Physical Review Letters</i> , <b>2022</b> , 128, 036402	7.4	3
31	Double-dome superconductivity under pressure in the V-based kagome metals AV <sub>3</sub> Sb <sub>5</sub> (A=Rb and K). <i>Physical Review B</i> , <b>2022</b> , 105,	3.3	3
30	Microscopic evidence for anisotropic multigap superconductivity in the CsV <sub>3</sub> Sb <sub>5</sub> kagome superconductor. <i>Npj Quantum Materials</i> , <b>2022</b> , 7,	5	3
29	Superconducting properties of MgCu-type Laves phase compounds SrRh and BaRh. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 295601	1.8	2
28	Evolution of the Pauli spin-paramagnetic effect on the upper critical fields of single-crystalline K <sub>x</sub> Fe <sub>2-y</sub> Se <sub>2-z</sub> S <sub>z</sub> . <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	2
27	Upper critical field and vortex phase diagram of polycrystalline Mo <sub>1-x</sub> Zr <sub>x</sub> N thin films by sol-gel. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 033905	2.5	2
26	NMR characterization of sulphur substitution effects in the K <sub>x</sub> Fe <sub>2-y</sub> Se <sub>2-z</sub> S <sub>z</sub> high-T <sub>c</sub> superconductor. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	2
25	Chemical Solution Deposition of LaMnO <sub>3</sub> Buffer Layers for Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 3880-3885	1.8	2
24	Structures and physical properties of v-based kagome metals csv <sub>6</sub> sb <sub>6</sub> and csv <sub>8</sub> sb <sub>12</sub> *. <i>Chinese Physics Letters</i> , <b>2021</b> , 38, 127401	1.8	2

23	Atomically flat surface preparation for surface-sensitive technologies. <i>Chinese Physics B</i> , <b>2020</b> , 29, 0281012	1.2	2
22	Structural Monoclinicity and Its Coupling to Layered Magnetism in Few-Layer CrI. <i>ACS Nano</i> , <b>2021</b> , 15, 10444-10450	16.7	2
21	FePdSe: Magnetic Spin-Glass Polymorph of FeSe and PdSe Stable at Ambient Pressure. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 3107-3114	5.1	2
20	Physical properties of quaternary compounds Gd <sub>2</sub> CoAl <sub>4</sub> T <sub>2</sub> (T = Si, Ge) single crystals. <i>Frontiers of Physics</i> , <b>2019</b> , 14, 1	3.7	2
19	Transport properties of Li <sub>x</sub> (NH <sub>3</sub> ) <sub>y</sub> Fe <sub>2</sub> (Te <sub>z</sub> Se <sub>1-z</sub> ) <sub>2</sub> single crystals in the mixed state. <i>Superconductor Science and Technology</i> , <b>2018</b> , 31, 015003	3.1	2
18	On the Nanoscale Structure of K <sub>x</sub> Fe <sub>2</sub> Ch <sub>2</sub> (Ch = S, Se): A Neutron Pair Distribution Function View. <i>Condensed Matter</i> , <b>2018</b> , 3, 20	1.8	2
17	Electronic correlation effects in the kagome magnet GdMn <sub>6</sub> Sn <sub>6</sub> . <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2
16	Manipulation of Dirac band curvature and momentum-dependent g factor in a kagome magnet. <i>Nature Physics</i> ,	16.2	2
15	Magnetotransport properties of compensated semimetal HfB with high-density light carriers. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 015601	1.8	1
14	Quaternary antiferromagnetic Ba <sub>2</sub> BiFe <sub>5</sub> S <sub>5</sub> with isolated FeS <sub>4</sub> tetrahedra. <i>Chinese Physics B</i> , <b>2019</b> , 28, 087401	1.2	1
13	Superconducting state in the metastable binary bismuthide Rh <sub>3</sub> Bi <sub>14</sub> single crystals. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	1
12	Chemical solution deposition and transport properties of Ag-doped manganite films. <i>Journal of Crystal Growth</i> , <b>2007</b> , 299, 330-335	1.6	1
11	Absence of Kondo effect in CeNiGe <sub>3</sub> revealed by coherent phonon dynamics. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
10	Spin excitations in metallic kagome lattice FeSn and CoSn. <i>Communications Physics</i> , <b>2021</b> , 4,	5.4	1
9	Tri-hexagonal charge order in kagome metal CsV <sub>3</sub> Sb <sub>5</sub> revealed by <sup>121</sup> Sb nuclear quadrupole resonance. <i>Chinese Physics B</i> , <b>2022</b> , 31, 017105	1.2	1
8	Observation of a chiral wave function in the twofold-degenerate quadruple Weyl system BaPtGe. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
7	Observation of cyclotron antiresonance in the topological insulator Bi <sub>2</sub> Te <sub>3</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	1
6	Thermal transport and mixed valence in ZrTe <sub>3</sub> doped with Hf and Se. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 022601	3.4	0

5	Tuning of Magnetic Properties of $\text{RuCl}_3$ Single Crystal by Cr Doping. <i>Chinese Physics Letters</i> , <b>2020</b> , 37, 067501	1.8	0
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3	Memristive Switching: Magneto-Memristive Switching in a 2D Layer Antiferromagnet (Adv. Mater. 2/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070010	24	
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1	Consecutive topological transitions of helical Fermi arcs at saddle points in CoSi. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2022</b> , 65, 1	3.6	