

Yan Sun

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

222
papers

15,707
citations

61
h-index

122
g-index

237
ext. papers

20,539
ext. citations

10
avg, IF

7.04
L-index

#	Paper	IF	Citations
222	Dirac semimetal and topological phase transitions in A ₃ Bi (A=Na, K, Rb). <i>Physical Review B</i> , 2012 , 85,	3.3	1244
221	Large-gap quantum spin Hall insulators in tin films. <i>Physical Review Letters</i> , 2013 , 111, 136804	7.4	952
220	Extremely large magnetoresistance and ultrahigh mobility in the topological Weyl semimetal candidate NbP. <i>Nature Physics</i> , 2015 , 11, 645-649	16.2	686
219	Topological Materials: Weyl Semimetals. <i>Annual Review of Condensed Matter Physics</i> , 2017 , 8, 337-354	19.7	659
218	Weyl semimetal phase in the non-centrosymmetric compound TaAs. <i>Nature Physics</i> , 2015 , 11, 728-732	16.2	649
217	Superconductivity in Weyl semimetal candidate MoTe ₂ . <i>Nature Communications</i> , 2016 , 7, 11038	17.4	442
216	Giant anomalous Hall effect in a ferromagnetic Kagomé lattice semimetal. <i>Nature Physics</i> , 2018 , 14, 1125-1131	16.3	440
215	Prediction of Weyl semimetal in orthorhombic MoTe ₂ . <i>Physical Review B</i> , 2015 , 92,	3.3	414
214	Oscillatory crossover from two-dimensional to three-dimensional topological insulators. <i>Physical Review B</i> , 2010 , 81,	3.3	389
213	Large anomalous Hall effect driven by a nonvanishing Berry curvature in the noncolinear antiferromagnet Mn ₃ Ge. <i>Science Advances</i> , 2016 , 2, e1501870	14.3	345
212	High electron mobility and quantum oscillations in non-encapsulated ultrathin semiconducting BiOSe. <i>Nature Nanotechnology</i> , 2017 , 12, 530-534	28.7	332
211	Negative magnetoresistance without well-defined chirality in the Weyl semimetal TaP. <i>Nature Communications</i> , 2016 , 7, 11615	17.4	301
210	Signature of type-II Weyl semimetal phase in MoTe. <i>Nature Communications</i> , 2017 , 8, 13973	17.4	273
209	Topological materials. <i>Reports on Progress in Physics</i> , 2012 , 75, 096501	14.4	264
208	Topological antiferromagnetic spintronics. <i>Nature Physics</i> , 2018 , 14, 242-251	16.2	248
207	Magnetic Weyl semimetal phase in a Kagomé crystal. <i>Science</i> , 2019 , 365, 1282-1285	33.3	238
206	Fermi-arc diversity on surface terminations of the magnetic Weyl semimetal CoSnS. <i>Science</i> , 2019 , 365, 1286-1291	33.3	222

205	Evolution of the Fermi surface of Weyl semimetals in the transition metal pnictide family. <i>Nature Materials</i> , 2016 , 15, 27-31	27	202
204	Prediction of near-room-temperature quantum anomalous Hall effect on honeycomb materials. <i>Physical Review Letters</i> , 2014 , 113, 256401	7.4	200
203	Topological Weyl semimetals in the chiral antiferromagnetic materials Mn ₃ Ge and Mn ₃ Sn. <i>New Journal of Physics</i> , 2017 , 19, 015008	2.9	170
202	Experimental signatures of the mixed axial-gravitational anomaly in the Weyl semimetal NbP. <i>Nature</i> , 2017 , 547, 324-327	50.4	161
201	A coronene-based semiconducting two-dimensional metal-organic framework with ferromagnetic behavior. <i>Nature Communications</i> , 2018 , 9, 2637	17.4	140
200	Giant facet-dependent spin-orbit torque and spin Hall conductivity in the triangular antiferromagnet IrMn. <i>Science Advances</i> , 2016 , 2, e1600759	14.3	135
199	Topological insulators and thermoelectric materials. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 91-100	2.5	127
198	Topological surface states and Fermi arcs of the noncentrosymmetric Weyl semimetals TaAs, TaP, NbAs, and NbP. <i>Physical Review B</i> , 2015 , 92,	3.3	126
197	Theoretical prediction of topological insulators in thallium-based III-V-VI 2 ternary chalcogenides. <i>Europhysics Letters</i> , 2010 , 90, 37002	1.6	126
196	Heusler, Weyl and Berry. <i>Nature Reviews Materials</i> , 2018 , 3, 244-256	73.3	123
195	A large-energy-gap oxide topological insulator based on the superconductor BaBiO ₃ . <i>Nature Physics</i> , 2013 , 9, 709-711	16.2	121
194	Strong anisotropic anomalous Hall effect and spin Hall effect in the chiral antiferromagnetic compounds Mn ₃ X (X=Ge, Sn, Ga, Ir, Rh, and Pt). <i>Physical Review B</i> , 2017 , 95,	3.3	117
193	Higher-Order Topology, Monopole Nodal Lines, and the Origin of Large Fermi Arcs in Transition Metal Dichalcogenides XTe ₂ (X=Mo,W). <i>Physical Review Letters</i> , 2019 , 123, 186401	7.4	116
192	Topological states on the gold surface. <i>Nature Communications</i> , 2015 , 6, 10167	17.4	114
191	Extremely high magnetoresistance and conductivity in the type-II Weyl semimetals WP and MoP. <i>Nature Communications</i> , 2017 , 8, 1642	17.4	111
190	Weyl Semimetals as Hydrogen Evolution Catalysts. <i>Advanced Materials</i> , 2017 , 29, 1606202	24	107
189	Electronic structures and unusually robust bandgap in an ultrahigh-mobility layered oxide semiconductor, BiOSe. <i>Science Advances</i> , 2018 , 4, eaat8355	14.3	103
188	Graphene-based topological insulator with an intrinsic bulk band gap above room temperature. <i>Nano Letters</i> , 2013 , 13, 6251-5	11.5	102

187	Topological surface Fermi arcs in the magnetic Weyl semimetal Co ₃ Sn ₂ S ₂ . <i>Physical Review B</i> , 2018 , 97,	3.3	102
186	Chiral topological semimetal with multifold band crossings and long Fermi arcs. <i>Nature Physics</i> , 2019 , 15, 759-765	16.2	98
185	Strong Intrinsic Spin Hall Effect in the TaAs Family of Weyl Semimetals. <i>Physical Review Letters</i> , 2016 , 117, 146403	7.4	98
184	Dirac line nodes and effect of spin-orbit coupling in the nonsymmorphic critical semimetals MSiS(M=Hf,Zr). <i>Physical Review B</i> , 2017 , 95,	3.3	93
183	Anomalous Nernst effect beyond the magnetization scaling relation in the ferromagnetic Heusler compound Co ₂ MnGa. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	93
182	New Family of Quantum Spin Hall Insulators in Two-dimensional Transition-Metal Halide with Large Nontrivial Band Gaps. <i>Nano Letters</i> , 2015 , 15, 7867-72	11.5	87
181	Zero-Field Nernst Effect in a Ferromagnetic Kagome-Lattice Weyl-Semimetal Co Sn S. <i>Advanced Materials</i> , 2019 , 31, e1806622	24	84
180	Spin-Polarized Current in Noncollinear Antiferromagnets. <i>Physical Review Letters</i> , 2017 , 119, 187204	7.4	82
179	Carbon-Tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. <i>Advanced Energy Materials</i> , 2018 , 8, 1801258	21.8	80
178	Berry curvature dipole in Weyl semimetal materials: An ab initio study. <i>Physical Review B</i> , 2018 , 97,	3.3	79
177	Rocksalt SnS and SnSe: Native topological crystalline insulators. <i>Physical Review B</i> , 2013 , 88,	3.3	79
176	Topological insulators from a chemist's perspective. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7221-5	16.4	78
175	Symmetry demanded topological nodal-line materials. <i>Advances in Physics: X</i> , 2018 , 3, 1414631	5.1	77
174	Topological insulators in ternary compounds with a honeycomb lattice. <i>Physical Review Letters</i> , 2011 , 106, 156402	7.4	77
173	Thermal and electrical signatures of a hydrodynamic electron fluid in tungsten diphosphide. <i>Nature Communications</i> , 2018 , 9, 4093	17.4	77
172	Multiple Dirac cones at the surface of the topological metal LaBi. <i>Nature Communications</i> , 2017 , 8, 13942	7.4	75
171	Axionic charge-density wave in the Weyl semimetal (TaSe) ₃ . <i>Nature</i> , 2019 , 575, 315-319	50.4	75
170	Visualizing weakly bound surface Fermi arcs and their correspondence to bulk Weyl fermions. <i>Science Advances</i> , 2016 , 2, e1600709	14.3	74

169	Robust 2D topological insulators in van der Waals heterostructures. <i>ACS Nano</i> , 2014 , 8, 10448-54	16.7	74
168	Prediction of weak topological insulators in layered semiconductors. <i>Physical Review Letters</i> , 2012 , 109, 116406	7.4	74
167	New family of three-dimensional topological insulators with antiperovskite structure. <i>Physical Review Letters</i> , 2010 , 105, 216406	7.4	72
166	Dirac nodal lines and induced spin Hall effect in metallic rutile oxides. <i>Physical Review B</i> , 2017 , 95,	3.3	70
165	Observation of pseudo-two-dimensional electron transport in the rock salt-type topological semimetal LaBi. <i>Physical Review B</i> , 2016 , 93,	3.3	69
164	Surface states in bulk single crystal of topological semimetal CoSnS toward water oxidation. <i>Science Advances</i> , 2019 , 5, eaaw9867	14.3	63
163	Electronic, optical, and mechanical properties of superhard cold-compressed phases of carbon. <i>Applied Physics Letters</i> , 2011 , 99, 031901	3.4	62
162	Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. <i>Science Advances</i> , 2018 , 4, eaar2317	23.7	61
161	Electrically tuneable nonlinear anomalous Hall effect in two-dimensional transition-metal dichalcogenides WTe ₂ and MoTe ₂ . <i>2D Materials</i> , 2018 , 5, 044001	5.9	61
160	Anomalous Hall effect in Weyl semimetal half-Heusler compounds RPtBi (R = Gd and Nd). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9140-9144	11.5	61
159	Chiral Weyl Pockets and Fermi Surface Topology of the Weyl Semimetal TaAs. <i>Physical Review Letters</i> , 2016 , 117, 146401	7.4	61
158	A native oxide high- κ gate dielectric for two-dimensional electronics. <i>Nature Electronics</i> , 2020 , 3, 473-478	28.4	58
157	Prediction of Triple Point Fermions in Simple Half-Heusler Topological Insulators. <i>Physical Review Letters</i> , 2017 , 119, 136401	7.4	56
156	Quantum oscillations and the Fermi surface topology of the Weyl semimetal NbP. <i>Physical Review B</i> , 2016 , 93,	3.3	56
155	Low Residual Carrier Concentration and High Mobility in 2D Semiconducting BiOSe. <i>Nano Letters</i> , 2019 , 19, 197-202	11.5	56
154	Chiral magnetoresistance in the Weyl semimetal NbP. <i>Scientific Reports</i> , 2017 , 7, 43394	4.9	55
153	Charge Density Waves and Electronic Properties of Superconducting Kagome Metals. <i>Physical Review Letters</i> , 2021 , 127, 046401	7.4	55
152	Half-Heusler topological insulators. <i>MRS Bulletin</i> , 2014 , 39, 859-866	3.2	52

151	First-principles study of the structural stability of cubic, tetragonal and hexagonal phases in MnZ (Z=Ga, Sn and Ge) Heusler compounds. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 206006	1.8	50
150	Spin fluctuation induced Weyl semimetal state in the paramagnetic phase of EuCdAs. <i>Science Advances</i> , 2019 , 5, eaaw4718	14.3	48
149	Photogalvanic effect in Weyl semimetals from first principles. <i>Physical Review B</i> , 2018 , 97,	3.3	48
148	Dirac dispersion generates unusually large Nernst effect in Weyl semimetals. <i>Physical Review B</i> , 2018 , 97,	3.3	47
147	Theoretical prediction of topological insulator in ternary rare earth chalcogenides. <i>Physical Review B</i> , 2010 , 82,	3.3	47
146	Roton pair density wave in a strong-coupling kagome superconductor. <i>Nature</i> , 2021 , 599, 222-228	50.4	47
145	Graphene-like Dirac states and quantum spin Hall insulators in square-octagonal MX ₂ (M=Mo, W; X=S, Se, Te) isomers. <i>Physical Review B</i> , 2015 , 92,	3.3	45
144	Self-modulation doping effect in the high-mobility layered semiconductor Bi ₂ O ₂ Se. <i>Physical Review B</i> , 2018 , 97,	3.3	45
143	Toward Rational Design of Catalysts Supported on a Topological Insulator Substrate. <i>ACS Catalysis</i> , 2015 , 5, 7063-7067	13.1	43
142	Prediction of a magnetic Weyl semimetal without spin-orbit coupling and strong anomalous Hall effect in the Heusler compensated ferrimagnet Ti ₂ MnAl. <i>Physical Review B</i> , 2018 , 97,	3.3	43
141	Weak topological insulators induced by the interlayer coupling: A first-principles study of stacked Bi ₂ Tel. <i>Physical Review B</i> , 2014 , 89,	3.3	43
140	Synergistically creating sulfur vacancies in semimetal-supported amorphous MoS ₂ for efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 1-6	21.8	42
139	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
138	Switchable magnetic bulk photovoltaic effect in the two-dimensional magnet CrI. <i>Nature Communications</i> , 2019 , 10, 3783	17.4	39
137	Observation of charge to spin conversion in Weyl semimetal WTe ₂ at room temperature. <i>Physical Review Research</i> , 2020 , 2,	3.9	39
136	Unusual magnetotransport from Si-square nets in topological semimetal HfSiS. <i>Physical Review B</i> , 2017 , 95,	3.3	38
135	Large spin-orbit torque efficiency enhanced by magnetic structure of collinear antiferromagnet IrMn. <i>Science Advances</i> , 2019 , 5, eaau6696	14.3	37
134	Spin Hall effect emerging from a noncollinear magnetic lattice without spin-orbit coupling. <i>New Journal of Physics</i> , 2018 , 20, 073028	2.9	37

133	From Colossal to Zero: Controlling the Anomalous Hall Effect in Magnetic Heusler Compounds via Berry Curvature Design. <i>Physical Review X</i> , 2018 , 8,	9.1	37
132	Topological Quantum Phase Transition and Superconductivity Induced by Pressure in the Bismuth Tellurohalide BiTeI. <i>Advanced Materials</i> , 2017 , 29, 1605965	24	36
131	Topological Engineering of Pt-Group-Metal-Based Chiral Crystals toward High-Efficiency Hydrogen Evolution Catalysts. <i>Advanced Materials</i> , 2020 , 32, e1908518	24	35
130	Observation of nodal line in non-symmorphic topological semimetal InBi. <i>New Journal of Physics</i> , 2017 , 19, 065007	2.9	35
129	Giant intrinsic spin Hall effect in WTa and other A15 superconductors. <i>Science Advances</i> , 2019 , 5, eaav8571.3	15.3	34
128	Large Nernst power factor over a broad temperature range in polycrystalline Weyl semimetal NbP. <i>Energy and Environmental Science</i> , 2018 , 11, 2813-2820	35.4	34
127	Tuning the vertical location of helical surface states in topological insulator heterostructures via dual-proximity effects. <i>Scientific Reports</i> , 2013 , 3, 1233	4.9	34
126	Pressure-driven superconductivity in the transition-metal pentatelluride HfTe ₅ . <i>Physical Review B</i> , 2016 , 94,	3.3	34
125	Topological thermoelectrics. <i>APL Materials</i> , 2020 , 8, 040913	5.7	34
124	Thickness dependence of the anomalous Hall effect in thin films of the topological semimetal Co ₂ MnGa. <i>Physical Review B</i> , 2019 , 100,	3.3	33
123	Ground-state phase in the three-dimensional topological Dirac semimetal Na ₃ Bi. <i>Physical Review B</i> , 2014 , 89,	3.3	31
122	Model Hamiltonian and time reversal breaking topological phases of antiferromagnetic half-Heusler materials. <i>Physical Review B</i> , 2017 , 95,	3.3	31
121	In Situ Induction of Strain in Iron Phosphide (FeP ₂) Catalyst for Enhanced Hydroxide Adsorption and Water Oxidation. <i>Advanced Functional Materials</i> , 2020 , 30, 1907791	15.6	30
120	Photochemical Water Splitting by Bismuth Chalcogenide Topological Insulators. <i>ChemPhysChem</i> , 2017 , 18, 2322-2327	3.2	30
119	Topological origin of the type-II Dirac fermions in PtSe ₂ . <i>Physical Review Materials</i> , 2017 , 1,	3.2	30
118	Berry phase and band structure analysis of the Weyl semimetal NbP. <i>Scientific Reports</i> , 2016 , 6, 33859	4.9	29
117	Planar Hall effect in the type-II Weyl semimetal TdMoTe ₂ . <i>Physical Review B</i> , 2018 , 98,	3.3	29
116	Strain-driven onset of nontrivial topological insulating states in Zintl Sr ₂ X compounds (X=Pb, Sn). <i>Physical Review B</i> , 2011 , 84,	3.3	29

115	Extremely high conductivity observed in the triple point topological metal MoP. <i>Nature Communications</i> , 2019 , 10, 2475	17.4	28
114	Dirac Nodal Arc Semimetal PtSn : An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13107-13112	16.4	27
113	Difference frequency generation in topological semimetals. <i>Physical Review Research</i> , 2020 , 2,	3.9	27
112	Finite-temperature violation of the anomalous transverse Wiedemann-Franz law. <i>Science Advances</i> , 2020 , 6, eaaz3522	14.3	25
111	Mode-resolved reciprocal space mapping of electron-phonon interaction in the Weyl semimetal candidate Td-WTe. <i>Nature Communications</i> , 2020 , 11, 2613	17.4	25
110	Emerging chiral edge states from the confinement of a magnetic Weyl semimetal in Co ₃ Sn ₂ S ₂ . <i>Physical Review B</i> , 2020 , 101,	3.3	25
109	Magnetic Semimetals and Quantized Anomalous Hall Effect in EuB ₆ . <i>Physical Review Letters</i> , 2020 , 124, 076403	7.4	25
108	Quantum oscillations in the type-II Dirac semi-metal candidate PtSe ₂ . <i>New Journal of Physics</i> , 2018 , 20, 043008	2.9	24
107	Anisotropic topological Hall effect with real and momentum space Berry curvature in the antiskrymion-hosting Heusler compound Mn _{1.4} PtSn. <i>Physical Review B</i> , 2019 , 99,	3.3	22
106	Pressure-induced superconductivity and topological quantum phase transitions in a quasi-one-dimensional topological insulator: Bi ₄ I ₄ . <i>Npj Quantum Materials</i> , 2018 , 3,	5	22
105	Pressure tuning the Fermi surface topology of the Weyl semimetal NbP. <i>Physical Review B</i> , 2016 , 93,	3.3	22
104	Strong anomalous Nernst effect in collinear magnetic Weyl semimetals without net magnetic moments. <i>Physical Review B</i> , 2018 , 97,	3.3	22
103	A charge-density-wave topological semimetal. <i>Nature Physics</i> , 2021 , 17, 381-387	16.2	22
102	Descriptor for Hydrogen Evolution Catalysts Based on the Bulk Band Structure Effect. <i>ACS Catalysis</i> , 2020 , 10, 5042-5048	13.1	21
101	Prediction of the quantum spin Hall effect in monolayers of transition-metal carbides MC (M = Ti, Zr, Hf). <i>2D Materials</i> , 2016 , 3, 035022	5.9	21
100	Consequences of time-reversal-symmetry breaking in the light-matter interaction: Berry curvature, quantum metric, and diabatic motion. <i>Physical Review Research</i> , 2020 , 2,	3.9	21
99	Intrinsic Anomalous Nernst Effect Amplified by Disorder in a Half-Metallic Semimetal. <i>Physical Review X</i> , 2019 , 9,	9.1	21
98	Topological Dirac semimetal phase in Pd and Pt oxides. <i>Physical Review B</i> , 2017 , 95,	3.3	20

97	Topological Lifshitz transitions and Fermi arc manipulation in Weyl semimetal NbAs. <i>Nature Communications</i> , 2019 , 10, 3478	17.4	20
96	Intrinsic Anomalous Hall Effect in Ni-Substituted Magnetic Weyl Semimetal CoSnS. <i>Chemistry of Materials</i> , 2020 , 32, 1612-1617	9.6	19
95	Observation of giant spin-split Fermi-arc with maximal Chern number in the chiral topological semimetal PtGa. <i>Nature Communications</i> , 2020 , 11, 2033	17.4	19
94	In Situ Modification of a Delafossite-Type PdCoO Bulk Single Crystal for Reversible Hydrogen Sorption and Fast Hydrogen Evolution. <i>ACS Energy Letters</i> , 2019 , 4, 2185-2191	20.1	19
93	Signatures for half-metallicity and nontrivial surface states in the kagome lattice Weyl semimetal Co ₃ Sn ₂ S ₂ . <i>Physical Review B</i> , 2019 , 99,	3.3	19
92	Large anomalous Hall and Nernst effects from nodal line symmetry breaking in Fe ₂ MnX (X = P, As, Sb). <i>Physical Review B</i> , 2019 , 99,	3.3	18
91	Ab initio study of topological surface states of strained HgTe. <i>Europhysics Letters</i> , 2014 , 107, 57006	1.6	18
90	Characterization of topological band structures away from the Fermi level by the anomalous Nernst effect. <i>Physical Review B</i> , 2018 , 98,	3.3	18
89	Anisotropic elastic properties and electronic structure of SrBb compounds. <i>Computational Materials Science</i> , 2015 , 98, 311-319	3.2	17
88	Giant anomalous Hall and Nernst effect in magnetic cubic Heusler compounds. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	17
87	Recent Advances in Two-Dimensional Magnets: Physics and Devices towards Spintronic Applications. <i>Research</i> , 2020 , 2020, 1768918	7.8	17
86	Impurity screening and stability of Fermi arcs against Coulomb and magnetic scattering in a Weyl mononictide. <i>Physical Review B</i> , 2017 , 95,	3.3	16
85	Anomalous Hall effect and the role of Berry curvature in Co ₂ TiSn Heusler films. <i>Physical Review B</i> , 2019 , 100,	3.3	16
84	Thickness dependence of the anomalous Nernst effect and the Mott relation of Weyl semimetal Co ₂ MnGa thin films. <i>Physical Review B</i> , 2020 , 101,	3.3	16
83	Surface superconductivity in the type II Weyl semimetal TaIrTe. <i>National Science Review</i> , 2020 , 7, 579-587	10.8	16
82	Two-dimensional rectangular tantalum carbide halides TaCX (X = Cl, Br, I): novel large-gap quantum spin Hall insulators. <i>2D Materials</i> , 2016 , 3, 035018	5.9	16
81	Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb. <i>Advanced Materials</i> , 2020 , 32, e1906046	24	15
80	Pressure-induced topological insulator in NaBaBi with right-handed surface spin texture. <i>Physical Review B</i> , 2016 , 93,	3.3	15

79	Anisotropy in electronic, optical, and mechanical properties of superhard body-centered tetragonal C4 phase of carbon. <i>Applied Physics Letters</i> , 2010 , 97, 061910	3.4	15
78	Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb. <i>Advanced Materials</i> , 2021 , 33, e2003168	24	15
77	Exploiting Two-Dimensional Bi O Se for Trace Oxygen Detection. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17938-17943	16.4	14
76	Dirac fermions in antiferromagnetic FeSn kagome lattices with combined space inversion and time-reversal symmetry. <i>Physical Review B</i> , 2020 , 102,	3.3	14
75	Electron Density Optimization and the Anisotropic Thermoelectric Properties of Ti Self-Intercalated TiS Compounds. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32344-32354	9.5	14
74	Room-temperature angular-dependent topological Hall effect in chiral antiferromagnetic Weyl semimetal Mn3Sn. <i>Applied Physics Letters</i> , 2019 , 115, 102404	3.4	13
73	Comprehensive scan for nonmagnetic Weyl semimetals with nonlinear optical response. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	12
72	Topological Weyl semimetals in Bi1-xSbx alloys. <i>Physical Review B</i> , 2018 , 97,	3.3	12
71	Topological nematic phase in Dirac semimetals. <i>Physical Review B</i> , 2016 , 93,	3.3	12
70	Strong bulk photovoltaic effect in chiral crystals in the visible spectrum. <i>Physical Review B</i> , 2019 , 100,	3.3	12
69	Origin of the extremely large magnetoresistance in topological semimetal PtSn4. <i>Physical Review B</i> , 2018 , 97,	3.3	12
68	Strong spin-orbit coupling and Dirac nodal lines in the three-dimensional electronic structure of metallic rutile IrO2. <i>Physical Review B</i> , 2019 , 99,	3.3	11
67	Magnetic asymmetry induced anomalous spin-orbit torque in IrMn. <i>Physical Review B</i> , 2020 , 101,	3.3	11
66	Weyl semimetals: Magnetically induced. <i>Nature Materials</i> , 2016 , 15, 1149-1150	27	11
65	Quasiparticle Interference Studies of Quantum Materials. <i>Advanced Materials</i> , 2018 , 30, e1707628	24	11
64	Observation of the topological surface state in the nonsymmorphic topological insulator KHgSb. <i>Physical Review B</i> , 2017 , 96,	3.3	11
63	Largely Suppressed Magneto-Thermal Conductivity and Enhanced Magneto-Thermoelectric Properties in PtSn. <i>Research</i> , 2020 , 2020, 4643507	7.8	11
62	First-principles calculations for topological quantum materials. <i>Nature Reviews Physics</i> , 2021 , 3, 283-297	23.6	10

61	Electronic properties of topological insulator candidate CaAgAs. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 045501	1.8	10
60	Lifshitz Transitions Induced by Temperature and Surface Doping in Type-II Weyl Semimetal Candidate Td-WTe ₂ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1700209	2.5	9
59	Visualizing coexisting surface states in the weak and crystalline topological insulator BiTeI. <i>Nature Materials</i> , 2020 , 19, 610-616	27	9
58	A simple and efficient criterion for ready screening of potential topological insulators. <i>Science Bulletin</i> , 2017 , 62, 1649-1653	10.6	9
57	Spin texture and mirror Chern number in Hg-based chalcogenides. <i>Physical Review B</i> , 2015 , 91,	3.3	9
56	Field-Modulated Anomalous Hall Conductivity and Planar Hall Effect in CoSnS Nanoflakes. <i>Nano Letters</i> , 2020 , 20, 7860-7867	11.5	9
55	Handedness-dependent quasiparticle interference in the two enantiomers of the topological chiral semimetal PdGa. <i>Nature Communications</i> , 2020 , 11, 3507	17.4	8
54	Giant c-axis nonlinear anomalous Hall effect in T-MoTe and WTe. <i>Nature Communications</i> , 2021 , 12, 2049	17.4	8
53	Large Anomalous Hall and Nernst Effects in High Curie-Temperature Iron-Based Heusler Compounds. <i>Advanced Science</i> , 2021 , 8, e2100782	13.6	8
52	The Zeeman splitting of bulk 2H-MoTe ₂ single crystal in high magnetic field. <i>Applied Physics Letters</i> , 2017 , 110, 102102	3.4	7
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