Hsin Lin

List of Publications by Citations

252 papers	28,073 citations	73 h-index	166 g-index
270 ext. papers	33,211 ext. citations	9.9 avg, IF	6.76 L-index

#	Paper	IF	Citations
252	Observation of a large-gap topological-insulator class with a single Dirac cone on the surface. *Nature Physics*, **2009**, 5, 398-402	16.2	2788
251	TOPOLOGICAL MATTER. Discovery of a Weyl fermion semimetal and topological Fermi arcs. *Science* , **2015**, 349, 613-7	33.3	2165
250	A tunable topological insulator in the spin helical Dirac transport regime. *Nature*, **2009**, 460, 1101-5	50.4	1548
249	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monopnictide TaAs class. *Nature Communications*, **2015**, 6, 7373	17.4	1068
248	Direct observation of the transition from indirect to direct bandgap in atomically thin epitaxial MoSe2. *Nature Nanotechnology*, **2014**, 9, 111-5	28.7	943
247	Observation of a three-dimensional topological Dirac semimetal phase in high-mobility Cd3As2. *Nature Communications*, **2014**, 5, 3786	17.4	938
246	Topological crystalline insulators in the SnTe material class. *Nature Communications*, **2012**, 3, 982	17.4	901
245	A library of atomically thin metal chalcogenides. *Nature*, **2018**, 556, 355-359	50.4	812
244	Observation of time-reversal-protected single-dirac-cone topological-insulator states in Bi2Te3 and Sb2Te3. *Physical Review Letters*, **2009**, 103, 146401	7.4	769
243	Colloquium: Topological band theory. *Reviews of Modern Physics*, **2016**, 88,	40.5	745
242	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. *Nature Physics*, **2015**, 11, 748-754	16.2	674
241	Half-Heusler ternary compounds as new multifunctional experimental platforms for topological quantum phenomena. *Nature Materials*, **2010**, 9, 546-9	27	531
240	Topological nodal-line fermions in spin-orbit metal PbTaSe2. *Nature Communications*, **2016**, 7, 10556	17.4	514
239	Observation of Fermi arc surface states in a topological metal. *Science*, **2015**, 347, 294-8	33.3	488
238	Observation of a topological crystalline insulator phase and topological phase transition in Pb(1-x)Sn(x)Te. *Nature Communications*, **2012**, 3, 1192	17.4	481
237	A topological insulator surface under strong Coulomb, magnetic and disorder perturbations. *Nature Physics*, **2011**, 7, 32-37	16.2	479
236	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. *Nature Communications*, **2016**, 7, 10735	17.4	455

235	Gated silicene as a tunable source of nearly 100% spin-polarized electrons. *Nature Communications*, **2013**, 4, 1500	17.4	368
234	Topological phase transition and texture inversion in a tunable topological insulator. *Science*, **2011**, 332, 560-4	33.3	358
233	Observation of topological order in a superconducting doped topological insulator. *Nature Physics*, **2010**, 6, 855-859	16.2	350
232	Hedgehog spin texture and Berry's phase tuning in a magnetic topological insulator. *Nature Physics*, **2012**, 8, 616-622	16.2	308
231	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. *Nature Communications*, **2018**, 9, 1545	17.4	267
230	Surface electronic structure of the topological Kondo-insulator candidate correlated electron system SmB6. *Nature Communications*, **2013**, 4, 2991	17.4	267
229	Experimental discovery of a topological Weyl semimetal state in TaP. *Science Advances*, **2015**, 1, e1501092	14.3	241
228	Observation of Dirac node formation and mass acquisition in a topological crystalline insulator. *Science*, **2013**, 341, 1496-9	33.3	219
227	Prediction of an arc-tunable Weyl Fermion metallic state in Mo(x)W(1-x)Te2. *Nature Communications*, **2016**, 7, 10639	17.4	216
226	Topological electronic structure in half-Heusler topological insulators. *Physical Review B*, **2010**, 82,	3.3	213
225	Drumhead surface states and topological nodal-line fermions in TlTaSe2. *Physical Review B*, **2016**, 93,	3.3	201
224	New type of Weyl semimetal with quadratic double Weyl fermions. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 1180-5	11.5	199
223	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. *Science*, **2019**, 365, 1278-1281	33.3	187
222	Direct optical detection of Weyl fermion chirality in a topological semimetal. *Nature Physics*, **2017**, 13, 842-847	16.2	184
221	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. *Advanced Materials*, **2017**, 29, 1602969	24	180
220	Single-Dirac-cone topological surface states in the TlBiSe(2) class of topological semiconductors. *Physical Review Letters*, **2010**, 105, 036404	7.4	162
219	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. *Nature*, **2019**, 565, 337-342	50.4	159
218	Unconventional Chiral Fermions and Large Topological Fermi Arcs in RhSi. *Physical Review Letters*, **2017**, 119, 206401	7.4	154

217	Prediction of large-gap two-dimensional topological insulators consisting of bilayers of group III elements with Bi. *Nano Letters*, **2014**, 14, 2505-8	11.5	153
216	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe2. *Nature Physics*, **2018**, 14, 900-906	16.2	143
215	Topological surface states and Dirac point tuning in ternary topological insulators. *Physical Review B*, **2012**, 85,	3.3	141
214	Large-Area and High-Quality 2D Transition Metal Telluride. *Advanced Materials*, **2017**, 29, 1603471	24	140
213	Discovery of a new type of topological Weyl fermion semimetal state in MoWTe. *Nature Communications*, **2016**, 7, 13643	17.4	134
212	Negative flat band magnetism in a spin–orbit-coupled correlated kagome magnet. *Nature Physics*, **2019**, 15, 443-448	16.2	132
211	Giant and anisotropic many-body spin-orbit tunability in a strongly correlated kagome magnet. *Nature*, **2018**, 562, 91-95	50.4	132
210	Topological properties determined by atomic buckling in self-assembled ultrathin Bi(110). *Nano Letters*, **2015**, 15, 80-7	11.5	131
209	Topological quantum properties of chiral crystals. *Nature Materials*, **2018**, 17, 978-985	27	129
208	Topological chiral crystals with helicoid-arc quantum states. *Nature*, **2019**, 567, 500-505	50.4	126
207	Direct observation of broken time-reversal symmetry on the surface of a magnetically doped topological insulator. *Physical Review Letters*, **2011**, 106, 206805	7.4	126
206	One-band tight-binding model parametrization of the high-Tc cuprates including the effect of kz dispersion. *Physical Review B*, **2005**, 72,	3.3	126
205	Topological Hopf and Chain Link Semimetal States and Their Application to Co_{2}MnGa. *Physical Review Letters*, **2017**, 119, 156401	7.4	125
204	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. *Advanced Functional Materials*, **2016**, 26, 137-145	15.6	125
203	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. *Science Advances*, **2017**, 3, e1603266	14.3	124
202	Phase transformation and lithiation effect on electronic structure of Li(x)FePO4: an in-depth study by soft X-ray and simulations. *Journal of the American Chemical Society*, **2012**, 134, 13708-15	16.4	121
201	Topological electronic structure and Weyl semimetal in the TlBiSe2 class of semiconductors. *Physical Review B*, **2012**, 86,	3.3	118
200	Hierarchy of multiple many-body interaction scales in high-temperature superconductors. *Physical Review B*, **2007**, 75,	3.3	116

199	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler CoTiX (X=Si, Ge, or Sn). *Scientific Reports*, **2016**, 6, 38839	4.9	113
198	Type-II Symmetry-Protected Topological Dirac Semimetals. *Physical Review Letters*, **2017**, 119, 026404	7.4	112
197	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. *Physical Review Letters*, **2016**, 116, 066802	7.4	107
196	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate MoxW1□Te2. *Physical Review B*, **2016**, 94,	3.3	106
195	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. *Physical Review B*, **2015**, 92,	3.3	102
194	Observation of quantum-tunnelling-modulated spin texture in ultrathin topological insulator Bi2Se3 films. *Nature Communications*, **2014**, 5, 3841	17.4	99
193	Nexus fermions in topological symmorphic crystalline metals. *Scientific Reports*, **2017**, 7, 1688	4.9	97
192	A strongly robust type II Weyl fermion semimetal state in TaS. *Science Advances*, **2016**, 2, e1600295	14.3	95
191	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. *Advanced Materials*, **2015**, 27, 7800-8	24	94
190	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. *ACS Nano*, **2016**, 10, 1378-85	16.7	93
189	Dirac mass generation from crystal symmetry breaking on the surfaces of topological crystalline insulators. *Nature Materials*, **2015**, 14, 318-24	27	93
188	Electronic structure, spin-orbit coupling, and interlayer interaction in bulk MoS2 and WS2. *Physical Review B*, **2015**, 91,	3.3	92
187	Tunable topological electronic structures in Sb(111) bilayers: A first-principles study. *Applied Physics Letters*, **2013**, 102, 022424	3.4	92
186	Metal-Semiconductor Phase-Transition in WSe Te Monolayer. *Advanced Materials*, **2017**, 29, 1603991	24	88
185	Atomically precise bottom-up synthesis of □extended [5]triangulene. *Science Advances*, **2019**, 5, eaav7717	14.3	86
184	Thickness dependent electronic properties of Pt dichalcogenides. *Npj 2D Materials and Applications*, **2019**, 3,	8.8	84
183	Robust Large Gap Two-Dimensional Topological Insulators in Hydrogenated III-V Buckled Honeycombs. *Nano Letters*, **2015**, 15, 6568-74	11.5	80
182	The nontrivial electronic structure of Bi/Sb honeycombs on SiC(0001). *New Journal of Physics*, **2015**, 17, 025005	2.9	75

181	Magnetic and noncentrosymmetric Weyl fermion semimetals in the RAlGe family of compounds (R=rareearth). *Physical Review B*, **2018**, 97,	3.3	74
180	Quantum-limit Chern topological magnetism in TbMnSn. *Nature*, **2020**, 583, 533-536	50.4	74
179	Nontrivial topological electronic structures in a single Bi(111) bilayer on different substrates: A first-principles study. *Physical Review B*, **2013**, 88,	3.3	73
178	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. *Physical Review Letters*, **2016**, 116, 096801	7.4	72
177	Mapping the unconventional orbital texture in topological crystalline insulators. *Nature Physics*, **2014**, 10, 572-577	16.2	70
176	Imaging doped holes in a cuprate superconductor with high-resolution Compton scattering. *Science* , **2011**, 332, 698-702	33.3	70
175	Magnetic-tunnelling-induced Weyl node annihilation in TaP. *Nature Physics*, **2017**, 13, 979-986	16.2	63
174	Reversal of the circular dichroism in angle-resolved photoemission from Bi2Te3. *Physical Review Letters*, **2013**, 110, 216801	7.4	63
173	Imaging the evolution of metallic states in a correlated iridate. *Nature Materials*, **2013**, 12, 707-13	27	63
172	Raising Bi-O bands above the Fermi energy level of hole-doped Bi2Sr2CaCu2O8+delta and other cuprate superconductors. *Physical Review Letters*, **2006**, 96, 097001	7.4	60
171	Topological Dirac surface states and superconducting pairing correlations in PbTaSe2. *Physical Review B*, **2016**, 93,	3.3	58
170	Nontrivial spin texture of the coaxial Dirac cones on the surface of topological crystalline insulator SnTe. *Physical Review B*, **2013**, 87,	3.3	58
169	Visible Surface Plasmon Modes in Single Bi□Te□Nanoplate. *Nano Letters*, **2015**, 15, 8331-5	11.5	57
168	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. *Nature Communications*, **2017**, 8, 942	17.4	57
167	Spin texture on the warped Dirac-cone surface states in topological insulators. *Physical Review B*, **2011**, 84,	3.3	57
166	High oscillator strength interlayer excitons in two-dimensional heterostructures for mid-infrared photodetection. *Nature Nanotechnology*, **2020**, 15, 675-682	28.7	56
165	Direct evidence of interaction-induced Dirac cones in a monolayer silicene/Ag(111) system. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 14656-14661	11.5	52
164	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. *Physical Review Letters*, **2016**, 117, 266804	7.4	50

163	Hydrogenated ultra-thin tin films predicted as two-dimensional topological insulators. *New Journal of Physics*, **2014**, 16, 115008	2.9	49
162	Strain driven topological phase transitions in atomically thin films of group IV and V elements in the honeycomb structures. *New Journal of Physics*, **2014**, 16, 105018	2.9	48
161	Realization of an intrinsic ferromagnetic topological state in MnBiTe. *Science Advances*, **2020**, 6, eaba4275	14.3	47
160	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. *Physical Review Letters*, **2016**, 116, 066601	7.4	43
159	Stable charge density wave phase in a 1T□TiSe2 monolayer. *Physical Review B*, **2017**, 95,	3.3	42
158	Non-Kondo-like electronic structure in the correlated rare-earth hexaboride YbB(6). *Physical Review Letters*, **2015**, 114, 016403	7.4	42
157	Origin of the electron-hole asymmetry in the scanning tunneling spectrum of the high-temperature Bi2Sr2CaCu2O8+delta superconductor. *Physical Review Letters*, **2009**, 102, 037001	7.4	42
156	Origin of the high-energy kink in the photoemission spectrum of the high-temperature superconductor Bi2Sr2CaCu2O8. *Physical Review B*, **2009**, 80,	3.3	41
155	Predicted Growth of Two-Dimensional Topological Insulator Thin Films of III-V Compounds on Si(111) Substrate. *Scientific Reports*, **2015**, 5, 15463	4.9	39
154	Multiple unpinned Dirac points in group-Va single-layers with phosphorene structure. *Npj Computational Materials*, **2016**, 2,	10.9	38
153	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. *Science Advances*, **2017**, 3, e1501692	14.3	36
152	Three-dimensional Dirac cone carrier dynamics in Na3Bi and Cd3As2. *Physical Review B*, **2016**, 94,	3.3	36
151	Coexistence of large conventional and planar spin Hall effect with long spin diffusion length in a low-symmetry semimetal at room temperature. *Nature Materials*, **2020**, 19, 292-298	27	35
150	Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd. *Nature Communications*, **2016**, 7, 13315	17.4	33
149	Oscillatory surface dichroism of the insulating topological insulator Bi2Te2Se. *Physical Review B*, **2013**, 88,	3.3	33
148	Reproduction of the Charge Density Wave Phase Diagram in 1T-TiSe_{2} Exposes its Excitonic Character. *Physical Review Letters*, **2018**, 121, 226602	7.4	33
147	Topology on a new facet of bismuth. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 13255-13259	11.5	32
146	Spontaneous gyrotropic electronic order in a transition-metal dichalcogenide. *Nature*, **2020**, 578, 545-549	50.4	32

145	Topological dangling bonds with large spin splitting and enhanced spin polarization on the surfaces of Bi2Se3. *Nano Letters*, **2013**, 13, 1915-9	11.5	32
144	An isolated Dirac cone on the surface of ternary tetradymite-like topological insulators. *New Journal of Physics*, **2011**, 13, 095005	2.9	31
143	Quasiparticle interference and nonsymmorphic effect on a floating band surface state of ZrSiSe. *Nature Communications*, **2018**, 9, 4153	17.4	31
142	Thickness dependence of spin polarization and electronic structure of ultra-thin films of MoS2 and related transition-metal dichalcogenides. *Scientific Reports*, **2014**, 4, 6270	4.9	30
141	Topological insulators in the quaternary chalcogenide compounds and ternary famatinite compounds. *New Journal of Physics*, **2011**, 13, 085017	2.9	30
140	Fermi-surface topology and low-lying electronic structure of the iron-based superconductor Ca10(Pt3As8)(Fe2As2)5. *Physical Review B*, **2012**, 85,	3.3	30
139	The changing colors of a quantum-confined topological insulator. *ACS Nano*, **2014**, 8, 1222-30	16.7	29
138	Van Hove singularity and ferromagnetic instability in phosphorene. *Physical Review B*, **2015**, 92,	3.3	29
137	Unconventional transformation of spin Dirac phase across a topological quantum phase transition. *Nature Communications*, **2015**, 6, 6870	17.4	28
136	Lifshitz transition and Van Hove singularity in a three-dimensional topological Dirac semimetal. *Physical Review B*, **2015**, 92,	3.3	28
135	Spectral decomposition and matrix element effects in scanning tunneling spectroscopy of Bi2Sr2CaCu2O8+□*Physical Review B*, **2009**, 80,	3.3	28
134	Spin-orbital ground states of superconducting doped topological insulators: A Majorana platform. *Physical Review B*, **2011**, 83,	3.3	28
133	Fermi surface topology and hot spot distribution in the Kondo lattice system CeB6. *Physical Review B*, **2015**, 92,	3.3	26
132	Role of oxygen electrons in the metal-insulator transition in the magnetoresistive oxide La2-2xSr1+2xMn2O7 probed by compton scattering. *Physical Review Letters*, **2009**, 102, 206402	7.4	26
131	Inter-Layer Coupling Induced Valence Band Edge Shift in Mono- to Few-Layer MoS. *Scientific Reports*, **2017**, 7, 40559	4.9	25
130	Predicting two-dimensional topological phases in Janus materials by substitutional doping in transition metal dichalcogenide monolayers. *Npj 2D Materials and Applications*, **2019**, 3,	8.8	25
129	Room-Temperature Nanoseconds Spin Relaxation in WTe and MoTe Thin Films. *Advanced Science*, **2018**, 5, 1700912	13.6	25
128	Auger width and branching ratios for berylliumlike 1s2s2np1Po and 1s2p31Po resonances and photoionization of beryllium from 1s22s21S. *Physical Review A*, **2002**, 65,	2.6	25

127	Nonsymmorphic cubic Dirac point and crossed nodal rings across the ferroelectric phase transition in LiOsO3. *Physical Review Materials*, **2018**, 2,	3.2	24
126	Topological crystalline insulator states in the Ca2As family. *Physical Review B*, **2018**, 98,	3.3	24
125	Prediction of two-dimensional topological insulator by forming a surface alloy on Au/Si(111) substrate. *Physical Review B*, **2016**, 93,	3.3	22
124	Observation of Effective Pseudospin Scattering in ZrSiS. *Nano Letters*, **2017**, 17, 7213-7217	11.5	22
123	Topological phase diagram and saddle point singularity in a tunable topological crystalline insulator. *Physical Review B*, **2015**, 92,	3.3	21
122	Purely rotational symmetry-protected topological crystalline insulator $alpha$ -Bi 4 Br 4. *2D Materials*, **2019**, 6, 031004	5.9	20
121	Unconventional Photocurrents from Surface Fermi Arcs in Topological Chiral Semimetals. *Physical Review Letters*, **2020**, 124, 166404	7.4	20
120	A Noninvasive Quantum Thermometer. *Physics Magazine*, **2009**, 2,	1.1	20
119	Spin-orbit quantum impurity in a topological magnet. *Nature Communications*, **2020**, 11, 4415	17.4	20
118	Topological Hourglass Dirac Semimetal in the Nonpolar Phase of Ag_{2}BiO_{3}. *Physical Review Letters*, **2018**, 121, 226401	7.4	20
117	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. *2D Materials*, **2016**, 3, 021009	5.9	19
116	Nanoscale interplay of strain and doping in a high-temperature superconductor. *Nano Letters*, **2014**, 14, 6749-53	11.5	18
115	Ultraquantum magnetoresistance in the Kramers-Weyl semimetal candidate Ag2Se. *Physical Review B*, **2017**, 96,	3.3	18
114	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. *Nature Communications*, **2020**, 11, 3356	17.4	18
113	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. *Physical Review Letters*, **2017**, 119, 196403	7.4	17
112	Growth of a predicted two-dimensional topological insulator based on InBi-Si(111)-7. *Physical Review B*, **2018**, 98,	3.3	17
111	Non-saturating quantum magnetization in Weyl semimetal TaAs. *Nature Communications*, **2019**, 10, 1028	17.4	16
110	Interplay of orbital effects and nanoscale strain in topological crystalline insulators. *Nature Communications*, **2018**, 9, 1550	17.4	16

109	Tunable spin helical Dirac quasiparticles on the surface of three-dimensional HgTe. *Physical Review B*, **2015**, 92,	3.3	16
108	Adiabatic transformation as a search tool for new topological insulators: Distorted ternary Li2AgSb-class semiconductors and related compounds. *Physical Review B*, **2013**, 87,	3.3	16
107	Nonlinear magnetotransport shaped by Fermi surface topology and convexity. *Nature Communications*, **2019**, 10, 1290	17.4	15
106	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. *Physical Review B*, **2020**, 101,	3.3	15
105	Topological phase transition and two-dimensional topological insulators in Ge-based thin films. *Physical Review B*, **2013**, 88,	3.3	15
104	Quasiparticle Interference on Cubic Perovskite Oxide Surfaces. *Physical Review Letters*, **2017**, 119, 086801	7.4	15
103	Electronic structure of the metallic ground state of La2−xSr1+2xMn2O7 for x0.59 and comparison with x=0.36,0.38 compounds as revealed by angle-resolved photoemission. *Physical Review B*, **2008**, 78,	3.3	15
102	Saddle-point Van Hove singularity and dual topological state in Pt2HgSe3. *Physical Review B*, **2019**, 100,	3.3	15
101	Layer Hall effect in a 2D topological axion antiferromagnet. *Nature*, **2021**, 595, 521-525	50.4	15
100	Two-dimensional Topological Crystalline Insulator Phase in Sb/Bi Planar Honeycomb with Tunable Dirac Gap. *Scientific Reports*, **2016**, 6, 18993	4.9	14
99	Renormalization of f levels away from the Fermi energy in electron excitation spectroscopies: Density-functional results for Nd2−CexCuO4. *Physical Review B*, **2011**, 84,	3.3	14
98	Deep donor levels in Sn-doped AlxGa1−As. *Journal of Applied Physics*, **1992**, 71, 5952-5956	2.5	14
97	Quantum anomalous Hall insulator phase in asymmetrically functionalized germanene. *Physical Review B*, **2017**, 96,	3.3	13
96	Enhanced anomalous Hall effect in the magnetic topological semimetal Co3Sn2−InxS2. *Physical Review B*, **2020**, 101,	3.3	13
95	Transition from intrinsic to extrinsic anomalous Hall effect in the ferromagnetic Weyl semimetal PrAlGe1−Six. *APL Materials*, **2020**, 8, 011111	5.7	13
94	Tunable double-Weyl Fermion semimetal state in the SrSi materials class. *Scientific Reports*, **2018**, 8, 10540	4.9	13
93	Spin-orbit coupling driven crossover from a starfruitlike nodal semimetal to Dirac and Weyl semimetal state in CaAuAs. *Physical Review B*, **2018**, 98,	3.3	13
92	Two distinct topological phases in the mixed-valence compound YbB6 and its differences from SmB6. *Physical Review B*, **2015**, 91,	3.3	13

91	Magnetic and topological properties in hydrogenated transition metal dichalcogenide monolayers. *Chinese Journal of Physics*, **2020**, 66, 15-23	3.5	12
90	Observation of metallic surface states in the strongly correlated Kitaev-Heisenberg candidate Na2IrO3. *Physical Review B*, **2016**, 93,	3.3	12
89	Electrically tunable localized tunneling channels in silicene nanoribbons. *Applied Physics Letters*, **2014**, 104, 173104	3.4	12
88	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. *Physical Review B*, **2015**, 91,	3.3	12
87	Chemically induced large-gap quantum anomalous Hall insulator states in III-Bi honeycombs. *Npj Computational Materials*, **2017**, 3,	10.9	11
86	Selective Hydrogen Etching Leads to 2D Bi(111) Bilayers on Bi2Se3: Large Rashba Splitting in Topological Insulator Heterostructure. *Chemistry of Materials*, **2017**, 29, 8992-9000	9.6	11
85	Band Topology of Bismuth Quantum Films. *Crystals*, **2019**, 9, 510	2.3	11
84	Quantum oscillations in the noncentrosymmetric superconductor and topological nodal-line semimetal PbTaSe2. *Physical Review B*, **2019**, 99,	3.3	11
83	Saddle-like topological surface states on the TT?X family of compounds (T, T? = Transition metal, X=Si, Ge). *Physical Review B*, **2018**, 97,	3.3	11
82	Y-shape spin-separator for two-dimensional group-IV nanoribbons based on quantum spin hall effect. *Applied Physics Letters*, **2014**, 104, 032410	3.4	11
81	Spin-correlated electronic state on the surface of a spin-orbit Mott system. *Physical Review B*, **2014**, 90,	3.3	11
80	Tunable topological electronic structure of silicene on a semiconducting Bi/Si(111)-3 substrate. *Physical Review B*, **2014**, 90,	3.3	11
79	X-ray absorption near-edge spectra of overdoped La2SrxCuO4 high-Tc superconductors. *Physical Review B*, **2011**, 83,	3.3	11
78	Quantum Phase Transition of Correlated Iron-Based Superconductivity in LiFe_{1-x}Co_{x}As. *Physical Review Letters*, **2019**, 123, 217004	7.4	11
77	Coexistence of Midgap Antiferromagnetic and Mott States in Undoped, Hole- and Electron-Doped Ambipolar Cuprates. *Physical Review Letters*, **2016**, 116, 197002	7.4	10
76	Role of acoustic phonons in Bi2Se3 topological insulator slabs: A quantum transport investigation. *Physical Review B*, **2014**, 89,	3.3	10
75	Symmetry-broken electronic structure and uniaxial Fermi surface nesting of untwinned CaFe2As2. *Physical Review B*, **2013**, 88,	3.3	10
74	Temperature-dependent electronic structure in a higher-order topological insulator candidate EuIn2As2. *Physical Review B*, **2020**, 102,	3.3	10

73	Prediction of Quantum Anomalous Hall Effect in MBi and MSb (M:Ti, Zr, and Hf) Honeycombs. *Nanoscale Research Letters*, **2018**, 13, 43	5	9
72	Bulk Fermi surface and momentum density in heavily doped La2SrxCuO4 using high-resolution Compton scattering and positron annihilation spectroscopies. *Physical Review B*, **2012**, 85,	3.3	9
71	Appearance of universal metallic dispersion in a doped Mott insulator. *Physical Review B*, **2008**, 78,	3.3	9
70	Prediction of threefold fermions in a nearly ideal Dirac semimetal BaAgAs. *Physical Review Materials*, **2019**, 3,	3.2	9
69	Topological metal and noncentrosymmetric superconductor BiPd as an efficient candidate for the hydrogen evolution reaction. *Materials Chemistry Frontiers*, **2019**, 3, 2184-2189	7.8	8
68	Spin-dependent scattering induced negative magnetoresistance in topological insulator BiTe nanowires. *Scientific Reports*, **2019**, 9, 7836	4.9	8
67	Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. *Physical Review B*, **2019**, 99,	3.3	8
66	Nanoscale determination of the mass enhancement factor in the lightly doped bulk insulator lead selenide. *Nature Communications*, **2015**, 6, 6559	17.4	8
65	Exceptionally large anomalous Hall effect due to anticrossing of spin-split bands in the antiferromagnetic half-Heusler compound TbPtBi. *Physical Review B*, **2020**, 101,	3.3	8
64	Topological superconductor in quasi-one-dimensional Tl2Mo6Se6. *Physical Review B*, **2018**, 97,	3.3	8
63	Prediction of Quantum Anomalous Hall Insulator in half-fluorinated GaBi Honeycomb. *Scientific Reports*, **2016**, 6, 31317	4.9	8
62	Searching for topological Fermi arcs via quasiparticle interference on a type-II Weyl semimetal MoTe2. *Npj Quantum Materials*, **2018**, 3,	5	8
61	First-principles study of atomic structures and electronic properties of ultrathin Bi films on Ge(111). *Surface Science*, **2014**, 626, 68-75	1.8	8
60	Atomic-scale visualization of surface-assisted orbital order. *Science Advances*, **2017**, 3, eaao0362	14.3	8
59	Charge Density Waves and the Hidden Nesting of Purple Bronze K_{0.9}Mo_{6}O_{17}. *Physical Review Letters*, **2017**, 118, 257601	7.4	8
58	Topological phase transition and quantum spin Hall state in TlBiS2. *Journal of Applied Physics*, **2014**, 116, 033704	2.5	8
57	Noncollinear ferromagnetic Weyl semimetal with anisotropic anomalous Hall effect. *Physical Review B*, **2021**, 103,	3.3	8
56	Minority-spin t(2g) states and the degree of spin polarization in ferromagnetic metallic La(2-2x)Sr(1+2x)Mn(2)O(7) (x = 0.38). *Scientific Reports*, **2013**, 3, 3167	4.9	7

55	Lindhard and RPA susceptibility computations in extended momentum space in electron-doped cuprates. *Physical Review B*, **2012**, 85,	3.3	7
54	Proposal to determine the Fermi-surface topology of a doped iron-based superconductor using bulk-sensitive Fourier-transform Compton scattering. *Physical Review B*, **2010**, 81,	3.3	7
53	Correlating structural, electronic, and magnetic properties of epitaxial VSe2 thin films. *Physical Review B*, **2020**, 102,	3.3	7
52	Tuning topological phases and electronic properties of monolayer ternary transition metal chalcogenides (ABX4, A/B = Zr, Hf, or Ti; X = S, Se, or Te). *Applied Physics Letters*, **2021**, 118, 111901	3.4	7
51	Moir□superlattices and 2D electronic properties of graphite/MoS2 heterostructures. *Journal of Physics and Chemistry of Solids*, **2019**, 128, 325-330	3.9	7
50	Evolution of the Electronic Properties of ZrX2 (X = S, Se, or Te) Thin Films under Varying Thickness. *Journal of Physical Chemistry C*, **2021**, 125, 1134-1142	3.8	7
49	Role of surface termination in realizing well-isolated topological surface states within the bulk band gap in TlBiSe2 and TlBiTe2. *Physical Review B*, **2016**, 93,	3.3	6
48	Chiral p-wave superconductivity in Sb(111) thin films close to Van Hove singularities. *Physical Review B*, **2016**, 93,	3.3	6
47	Coexisting pseudogap, charge-transfer-gap, and Mott-gap energy scales in the resonant inelastic x-ray scattering spectra of electron-doped cuprate superconductors. *Physical Review B*, **2012**, 85,	3.3	6
46	Theoretical prediction of topological insulators in two-dimensional ternary transition metal chalcogenides (MM'X4, M´= Ta, Nb, or V; M'= Ir, Rh, or Co; X´= Se or Te). *Chinese Journal of Physics*, **2021**, 73, 95-102	3.5	6
45	Effects of Contact Placement and Intra/Interlayer Interaction in Current Distribution of Black Phosphorus Sub-10-nm FET. *IEEE Transactions on Electron Devices*, **2017**, 64, 579-586	2.9	5
44	Significantly enhanced giant Rashba splitting in a thin film of binary alloy. *New Journal of Physics*, **2015**, 17, 083015	2.9	5
43	Effects of interlayer interaction in van der Waals layered black phosphorus for sub-10 nm FET **2015**,		5
42	Magnetotransport properties of the topological nodal-line semimetal CaCdSn. *Physical Review B*, **2020**, 102,	3.3	5
41	Two-dimensional MX Dirac materials and quantum spin Hall insulators with tunable electronic and topological properties. *Nano Research*, **2021**, 14, 584-589	10	5
40	Few-layer 1T? MoTe 2 as gapless semimetal with thickness dependent carrier transport. *2D Materials*, **2018**, 5, 031010	5.9	5
39	Topological crystalline insulator state with type-II Dirac fermions in transition metal dipnictides. *Physical Review B*, **2019**, 100,	3.3	4
38	Stable structure of high In coverage on Si(111)□□-Au. *Physical Review B*, **2014**, 90,	3.3	4

37	Interplay of matrix element, self-energy and geometric effects in various spectroscopies of the cuprates. *Journal of Physics and Chemistry of Solids*, **2011**, 72, 341-346	3.9	4
36	Effect of hole doping on the electronic structure of Tl2201. *Physica C: Superconductivity and Its Applications*, **2007**, 460-462, 428-429	1.3	4
35	Quantum anomalous Hall insulator phases in Fe-doped GaBi honeycomb. *Chinese Journal of Physics*, **2020**, 67, 246-252	3.5	4
34	Noncollinear magnetic modulation of Weyl nodes in ferrimagnetic Mn3Ga. *Physical Review B*, **2020**, 102,	3.3	4
33	Topological insulators and superconductivity: The integrity of two sides. *Nature Materials*, **2016**, 15, 927-28	27	4
32	Understanding the magnetic interaction between intrinsic defects and impurity ions in room-temperature ferromagnetic Mg1-xFexO thin films. *Journal of Physics Condensed Matter*, **2016**, 28, 156002	1.8	4
31	Emerging two-dimensional silicene nanosheets for biomedical applications. *Materials Today Nano*, **2021**, 16, 100132	9.7	4
30	Bond-breaking induced Lifshitz transition in robust Dirac semimetal VAI. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 15517-15523	11.5	3
29	Quantum anomalous Hall effect with field-tunable Chern number near Z2 topological critical point. *Physical Review B*, **2015**, 92,	3.3	3
28	Nonmonotonic Fermi surface evolution and its correlation with stripe ordering in bilayer manganites. *Physical Review B*, **2012**, 86,	3.3	3
27	Chemical potential shift of Fe3□VxSi studied by hard x-ray photoemission. *Physical Review B*, **2008**, 78,	3.3	3
26	Antisite defect qubits in monolayer transition metal dichalcogenides.. *Nature Communications*, **2022**, 13, 492	17.4	3
25	Photocurrent-driven transient symmetry breaking in the Weyl semimetal TaAs. *Nature Materials*, **2021**,	27	3
24	Topological Semimetals for Scaled Back-End-Of-Line Interconnect Beyond Cu **2020**,		3
23	Fermionic order by disorder in a van der Waals antiferromagnet. *Scientific Reports*, **2020**, 10, 15311	4.9	3
22	Field-Induced Metal□nsulator Transition in □EuP3. *Chinese Physics Letters*, **2020**, 37, 107501	1.8	3
21	Band Engineering and Van Hove Singularity on HfX2 Thin Films (X = S, Se, or Te). *ACS Applied Electronic Materials*, **2021**, 3, 1071-1079	4	3
20	Aspects of symmetry and topology in the charge density wave phase of 1T□iSe2. *New Journal of Physics*, **2021**, 23, 083037	2.9	3

19	Quantum anomalous Hall effect and a nontrivial spin-texture in ultra-thin films of magnetic topological insulators. *Journal of Applied Physics*, **2015**, 117, 17C741	2.5	2
18	A Minimal tight-binding model for ferromagnetic canted bilayer manganites. *Scientific Reports*, **2014**, 4, 7512	4.9	2
17	Hedgehog spin texture and competing orders associated with strains on the surface of a topological crystalline insulator. *Physical Review B*, **2016**, 93,	3.3	2
16	Edge states in the honeycomb reconstruction of two-dimensional silicon nanosheets. *Applied Physics Letters*, **2019**, 115, 023102	3.4	2
15	Modeling Highly Resolved Spectroscopies of Complex Materials. *Journal of Superconductivity and Novel Magnetism*, **2012**, 25, 2135-2139	1.5	2
14	High Resolution Compton Scattering as a Probe of the Fermi Surface in the Iron-based Superconductor LaO1 F x FeAs. *Journal of Superconductivity and Novel Magnetism*, **2009**, 22, 569-573	1.5	2
13	Reply to: Detectivities of WS/HfS heterojunctions.. *Nature Nanotechnology*, **2022**,	28.7	2
12	Carrier transport in Bi2Se3 topological insulator slab. *Physica E: Low-Dimensional Systems and Nanostructures*, **2015**, 74, 10-19	3	1
11	Topological Dirac Semimetal Phase in Bismuth Based Anode Materials for Sodium-Ion Batteries. *Condensed Matter*, **2020**, 5, 39	1.8	1
10	Modeling electronic structure and highly resolved spectroscopies of cuprates: ARPES, RIXS and STM. *Physica C: Superconductivity and Its Applications*, **2007**, 460-462, 222-225	1.3	1
9	Termination-dependent topological surface states in nodal-loop semimetal HfP2. *Physical Review Materials*, **2020**, 4,	3.2	1
8	Structural, thermal and magnetic properties of Y2Fe2Si2C. *Journal of Alloys and Compounds*, **2019**, 778, 618-624	5.7	1
7	Higher-order topological insulator phase in a modified Haldane model. *Physical Review B*, **2021**, 104,	3.3	1
6	Novel family of topological semimetals with butterflylike nodal lines. *Physical Review B*, **2021**, 104,	3.3	1
5	Topological theory of inversion-breaking charge-density-wave monolayer 1T-TiSe2. *New Journal of Physics*, **2021**, 23, 093025	2.9	1
4	Glide symmetry protected higher-order topological insulators from semimetals with butterfly-like nodal lines. *Npj Computational Materials*, **2021**, 7,	10.9	1
3	Topological Phases of Quantum Matter. *Springer Series in Solid-state Sciences*, **2018**, 141-169	0.4	0
2	Prediction of topological Dirac semimetal in Ca-based Zintl layered compounds CaMX (M = Zn or Cd; X = N, P, As, Sb, or Bi).. *Scientific Reports*, **2022**, 12, 4582	4.9	0

1 Topologically distinct Weyl fermion pairs. *Scientific Reports*, **2021**, 11, 416 4.9