Hsin Lin

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/4640055/hsin-lin-publications-by-year.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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

#	Paper	IF	Citations
252	Antisite defect qubits in monolayer transition metal dichalcogenides <i>Nature Communications</i> , 2022 , 13, 492	17.4	3
251	Prediction of topological Dirac semimetal in Ca-based Zintl layered compounds CaMX (M = Zn or Cd; X = N, P, As, Sb, or Bi) <i>Scientific Reports</i> , 2022 , 12, 4582	4.9	0
250	Reply to: Detectivities of WS/HfS heterojunctions <i>Nature Nanotechnology</i> , 2022 ,	28.7	2
249	Photocurrent-driven transient symmetry breaking in the Weyl semimetal TaAs. <i>Nature Materials</i> , 2021 ,	27	3
248	Tuning topological phases and electronic properties of monolayer ternary transition metal chalcogenides (ABX4, A/B = Zr, Hf, or Ti; $X = S$, Se, or Te). <i>Applied Physics Letters</i> , 2021 , 118, 111901	3.4	7
247	Noncollinear ferromagnetic Weyl semimetal with anisotropic anomalous Hall effect. <i>Physical Review B</i> , 2021 , 103,	3.3	8
246	Band Engineering and Van Hove Singularity on HfX2 Thin Films (X = S, Se, or Te). <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1071-1079	4	3
245	Two-dimensional MX Dirac materials and quantum spin Hall insulators with tunable electronic and topological properties. <i>Nano Research</i> , 2021 , 14, 584-589	10	5
244	Topologically distinct Weyl fermion pairs. <i>Scientific Reports</i> , 2021 , 11, 416	4.9	
243	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
242	Layer Hall effect in a 2D topological axion antiferromagnet. <i>Nature</i> , 2021 , 595, 521-525	50.4	15
241	Aspects of symmetry and topology in the charge density wave phase of 1TIIiSe2. <i>New Journal of Physics</i> , 2021 , 23, 083037	2.9	3
240	Higher-order topological insulator phase in a modified Haldane model. <i>Physical Review B</i> , 2021 , 104,	3.3	1
239	Novel family of topological semimetals with butterflylike nodal lines. <i>Physical Review B</i> , 2021 , 104,	3.3	1
238	Topological theory of inversion-breaking charge-density-wave monolayer 1T-TiSe2. <i>New Journal of Physics</i> , 2021 , 23, 093025	2.9	1
237	Theoretical prediction of topological insulators in two-dimensional ternary transition metal chalcogenides (MM'X4, M´=ʿTa, Nb, or V; M'= Ir, Rh, or Co; X´=ʿSe or Te). <i>Chinese Journal of Physics</i> , 2021 , 73, 95-102	3.5	6
236	Emerging two-dimensional silicene nanosheets for biomedical applications. <i>Materials Today Nano</i> , 2021 , 16, 100132	9.7	4

(2020-2021)

235	Glide symmetry protected higher-order topological insulators from semimetals with butterfly-like nodal lines. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	1
234	Bond-breaking induced Lifshitz transition in robust Dirac semimetal VAI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15517-15523	11.5	3
233	Magnetic and topological properties in hydrogenated transition metal dichalcogenide monolayers. <i>Chinese Journal of Physics</i> , 2020 , 66, 15-23	3.5	12
232	Enhanced anomalous Hall effect in the magnetic topological semimetal Co3Sn2\(\mathbb{\text{InxS2}}\). <i>Physical Review B</i> , 2020 , 101,	3.3	13
231	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. <i>Physical Review B</i> , 2020 , 101,	3.3	15
230	High oscillator strength interlayer excitons in two-dimensional heterostructures for mid-infrared photodetection. <i>Nature Nanotechnology</i> , 2020 , 15, 675-682	28.7	56
229	Topological Dirac Semimetal Phase in Bismuth Based Anode Materials for Sodium-Ion Batteries. <i>Condensed Matter</i> , 2020 , 5, 39	1.8	1
228	Spontaneous gyrotropic electronic order in a transition-metal dichalcogenide. <i>Nature</i> , 2020 , 578, 545-5	49 0.4	32
227	Coexistence of large conventional and planar spin Hall effect with long spin diffusion length in a low-symmetry semimetal at room temperature. <i>Nature Materials</i> , 2020 , 19, 292-298	27	35
226	Transition from intrinsic to extrinsic anomalous Hall effect in the ferromagnetic Weyl semimetal PrAlGe1\(\text{BSix}. \) APL Materials, 2020 , 8, 011111	5.7	13
225	Exceptionally large anomalous Hall effect due to anticrossing of spin-split bands in the antiferromagnetic half-Heusler compound TbPtBi. <i>Physical Review B</i> , 2020 , 101,	3.3	8
224	Unconventional Photocurrents from Surface Fermi Arcs in Topological Chiral Semimetals. <i>Physical Review Letters</i> , 2020 , 124, 166404	7.4	20
223	Termination-dependent topological surface states in nodal-loop semimetal HfP2. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
222	Topological Semimetals for Scaled Back-End-Of-Line Interconnect Beyond Cu 2020 ,		3
221	Correlating structural, electronic, and magnetic properties of epitaxial VSe2 thin films. <i>Physical Review B</i> , 2020 , 102,	3.3	7
220	Quantum-limit Chern topological magnetism in TbMnSn. <i>Nature</i> , 2020 , 583, 533-536	50.4	74
219	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. <i>Nature Communications</i> , 2020 , 11, 3356	17.4	18
218	Temperature-dependent electronic structure in a higher-order topological insulator candidate Euln2As2. <i>Physical Review B</i> , 2020 , 102,	3.3	10

217	Realization of an intrinsic ferromagnetic topological state in MnBiTe. Science Advances, 2020, 6, eaba47	27 <u>5</u> 4.3	47
216	Magnetotransport properties of the topological nodal-line semimetal CaCdSn. <i>Physical Review B</i> , 2020 , 102,	3.3	5
215	Quantum anomalous Hall insulator phases in Fe-doped GaBi honeycomb. <i>Chinese Journal of Physics</i> , 2020 , 67, 246-252	3.5	4
214	Fermionic order by disorder in a van der Waals antiferromagnet. Scientific Reports, 2020, 10, 15311	4.9	3
213	Field-Induced Metallhsulator Transition in ŒuP3. Chinese Physics Letters, 2020, 37, 107501	1.8	3
212	Noncollinear magnetic modulation of Weyl nodes in ferrimagnetic Mn3Ga. <i>Physical Review B</i> , 2020 , 102,	3.3	4
211	Spin-orbit quantum impurity in a topological magnet. <i>Nature Communications</i> , 2020 , 11, 4415	17.4	20
210	Topological metal and noncentrosymmetric superconductor BiPd as an efficient candidate for the hydrogen evolution reaction. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2184-2189	7.8	8
209	Predicting two-dimensional topological phases in Janus materials by substitutional doping in transition metal dichalcogenide monolayers. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	25
208	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. <i>Science</i> , 2019 , 365, 1278-1281	33.3	187
207			
	Band Topology of Bismuth Quantum Films. <i>Crystals</i> , 2019 , 9, 510	2.3	11
206	Spin-dependent scattering induced negative magnetoresistance in topological insulator BiTe nanowires. <i>Scientific Reports</i> , 2019 , 9, 7836	2.3	8
206	Spin-dependent scattering induced negative magnetoresistance in topological insulator BiTe		
	Spin-dependent scattering induced negative magnetoresistance in topological insulator BiTe nanowires. <i>Scientific Reports</i> , 2019 , 9, 7836 Topology on a new facet of bismuth. <i>Proceedings of the National Academy of Sciences of the United</i>	4.9	8
205	Spin-dependent scattering induced negative magnetoresistance in topological insulator BiTe nanowires. <i>Scientific Reports</i> , 2019 , 9, 7836 Topology on a new facet of bismuth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13255-13259 Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy.	4.9	8 32 8
205	Spin-dependent scattering induced negative magnetoresistance in topological insulator BiTe nanowires. <i>Scientific Reports</i> , 2019 , 9, 7836 Topology on a new facet of bismuth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13255-13259 Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. <i>Physical Review B</i> , 2019 , 99,	4.9 11.5 3.3 50.4	8 32 8
205 204 203	Spin-dependent scattering induced negative magnetoresistance in topological insulator BiTe nanowires. <i>Scientific Reports</i> , 2019 , 9, 7836 Topology on a new facet of bismuth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13255-13259 Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. <i>Physical Review B</i> , 2019 , 99, Topological chiral crystals with helicoid-arc quantum states. <i>Nature</i> , 2019 , 567, 500-505 Nonlinear magnetotransport shaped by Fermi surface topology and convexity. <i>Nature</i>	4.9 11.5 3.3 50.4	8 32 8 126

(2018-2019)

199	Purely rotational symmetry-protected topological crystalline insulator \$alpha\$ -Bi 4 Br 4. 2D Materials, 2019 , 6, 031004	5.9	20
198	Edge states in the honeycomb reconstruction of two-dimensional silicon nanosheets. <i>Applied Physics Letters</i> , 2019 , 115, 023102	3.4	2
197	Atomically precise bottom-up synthesis of Extended [5]triangulene. <i>Science Advances</i> , 2019 , 5, eaav77	17 4.3	86
196	Topological crystalline insulator state with type-II Dirac fermions in transition metal dipnictides. <i>Physical Review B</i> , 2019 , 100,	3.3	4
195	Prediction of threefold fermions in a nearly ideal Dirac semimetal BaAgAs. <i>Physical Review Materials</i> , 2019 , 3,	3.2	9
194	Negative flat band magnetism in a spinBrbit-coupled correlated kagome magnet. <i>Nature Physics</i> , 2019 , 15, 443-448	16.2	132
193	Quantum Phase Transition of Correlated Iron-Based Superconductivity in LiFe_{1-x}Co_{x}As. <i>Physical Review Letters</i> , 2019 , 123, 217004	7.4	11
192	Saddle-point Van Hove singularity and dual topological state in Pt2HgSe3. <i>Physical Review B</i> , 2019 , 100,	3.3	15
191	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. <i>Nature</i> , 2019 , 565, 337-342	50.4	159
190	Structural, thermal and magnetic properties of Y2Fe2Si2C. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 618-624	5.7	1
189	Thickness dependent electronic properties of Pt dichalcogenides. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	84
188	Moir Superlattices and 2D electronic properties of graphite/MoS2 heterostructures. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 128, 325-330	3.9	7
187	Interplay of orbital effects and nanoscale strain in topological crystalline insulators. <i>Nature Communications</i> , 2018 , 9, 1550	17.4	16
186	Room-Temperature Nanoseconds Spin Relaxation in WTe and MoTe Thin Films. <i>Advanced Science</i> , 2018 , 5, 1700912	13.6	25
185	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. <i>Nature Communications</i> , 2018 , 9, 1545	17.4	267
184	A library of atomically thin metal chalcogenides. <i>Nature</i> , 2018 , 556, 355-359	50.4	812
183	Saddle-like topological surface states on the TT?X family of compounds (T, T? = Transition metal, X=Si, Ge). <i>Physical Review B</i> , 2018 , 97,	3.3	11
182	Topological superconductor in quasi-one-dimensional Tl2MMo6Se6. <i>Physical Review B</i> , 2018 , 97,	3.3	8

181	Magnetic and noncentrosymmetric Weyl fermion semimetals in the RAlGe family of compounds (R=rareearth). <i>Physical Review B</i> , 2018 , 97,	3.3	74
180	Topological Phases of Quantum Matter. Springer Series in Solid-state Sciences, 2018, 141-169	0.4	O
179	Prediction of Quantum Anomalous Hall Effect in MBi and MSb (M:Ti, Zr, and Hf) Honeycombs. <i>Nanoscale Research Letters</i> , 2018 , 13, 43	5	9
178	Tunable double-Weyl Fermion semimetal state in the SrSi materials class. <i>Scientific Reports</i> , 2018 , 8, 10	05409	13
177	Searching for topological Fermi arcs via quasiparticle interference on a type-II Weyl semimetal MoTe2. <i>Npj Quantum Materials</i> , 2018 , 3,	5	8
176	Spin-orbit coupling driven crossover from a starfruitlike nodal semimetal to Dirac and Weyl semimetal state in CaAuAs. <i>Physical Review B</i> , 2018 , 98,	3.3	13
175	Nonsymmorphic cubic Dirac point and crossed nodal rings across the ferroelectric phase transition in LiOsO3. <i>Physical Review Materials</i> , 2018 , 2,	3.2	24
174	Topological Hourglass Dirac Semimetal in the Nonpolar Phase of Ag_{2}BiO_{3}. <i>Physical Review Letters</i> , 2018 , 121, 226401	7.4	20
173	Topological crystalline insulator states in the Ca2As family. <i>Physical Review B</i> , 2018 , 98,	3.3	24
172	Reproduction of the Charge Density Wave Phase Diagram in 1T-TiSe_{2} Exposes its Excitonic Character. <i>Physical Review Letters</i> , 2018 , 121, 226602	7.4	33
171	Topological quantum properties of chiral crystals. <i>Nature Materials</i> , 2018 , 17, 978-985	27	129
170	Quasiparticle interference and nonsymmorphic effect on a floating band surface state of ZrSiSe. <i>Nature Communications</i> , 2018 , 9, 4153	17.4	31
169	Growth of a predicted two-dimensional topological insulator based on InBi-Si(111)-71. <i>Physical Review B</i> , 2018 , 98,	3.3	17
168	Giant and anisotropic many-body spin-orbit tunability in a strongly correlated kagome magnet. <i>Nature</i> , 2018 , 562, 91-95	50.4	132
167	Few-layer 1T? MoTe 2 as gapless semimetal with thickness dependent carrier transport. <i>2D Materials</i> , 2018 , 5, 031010	5.9	5
166	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe2. <i>Nature Physics</i> , 2018 , 14, 900-906	16.2	143
165	Effects of Contact Placement and Intra/Interlayer Interaction in Current Distribution of Black Phosphorus Sub-10-nm FET. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 579-586	2.9	5
164	Inter-Layer Coupling Induced Valence Band Edge Shift in Mono- to Few-Layer MoS. <i>Scientific Reports</i> , 2017 , 7, 40559	4.9	25

(2017-2017)

163	Direct optical detection of Weyl fermion chirality in a topological semimetal. <i>Nature Physics</i> , 2017 , 13, 842-847	16.2	184
162	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. <i>Advanced Materials</i> , 2017 , 29, 1602969	24	180
161	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. <i>Science Advances</i> , 2017 , 3, e1501692	14.3	36
160	Chemically induced large-gap quantum anomalous Hall insulator states in III-Bi honeycombs. <i>Npj Computational Materials</i> , 2017 , 3,	10.9	11
159	Topological Hopf and Chain Link Semimetal States and Their Application to Co_{2}MnGa. <i>Physical Review Letters</i> , 2017 , 119, 156401	7.4	125
158	Quantum anomalous Hall insulator phase in asymmetrically functionalized germanene. <i>Physical Review B</i> , 2017 , 96,	3.3	13
157	Selective Hydrogen Etching Leads to 2D Bi(111) Bilayers on Bi2Se3: Large Rashba Splitting in Topological Insulator Heterostructure. <i>Chemistry of Materials</i> , 2017 , 29, 8992-9000	9.6	11
156	Quasiparticle Interference on Cubic Perovskite Oxide Surfaces. <i>Physical Review Letters</i> , 2017 , 119, 0868	80 / 1.4	15
155	Atomic-scale visualization of surface-assisted orbital order. <i>Science Advances</i> , 2017 , 3, eaao0362	14.3	8
154	Charge Density Waves and the Hidden Nesting of Purple Bronze K_{0.9}Mo_{6}O_{17}. <i>Physical Review Letters</i> , 2017 , 118, 257601	7.4	8
153	Nexus fermions in topological symmorphic crystalline metals. Scientific Reports, 2017, 7, 1688	4.9	97
152	Unconventional Chiral Fermions and Large Topological Fermi Arcs in RhSi. <i>Physical Review Letters</i> , 2017 , 119, 206401	7.4	154
151	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. <i>Nature Communications</i> , 2017 , 8, 942	17.4	57
150	Observation of Effective Pseudospin Scattering in ZrSiS. <i>Nano Letters</i> , 2017 , 17, 7213-7217	11.5	22
149	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. <i>Physical Review Letters</i> , 2017 , 119, 196403	7.4	17
148	Ultraquantum magnetoresistance in the Kramers-Weyl semimetal candidate Ag2Se. <i>Physical Review B</i> , 2017 , 96,	3.3	18
147	Magnetic-tunnelling-induced Weyl node annihilation in TaP. <i>Nature Physics</i> , 2017 , 13, 979-986	16.2	63
146	Stable charge density wave phase in a 1TIIiSe2 monolayer. <i>Physical Review B</i> , 2017 , 95,	3.3	42

145	Type-II Symmetry-Protected Topological Dirac Semimetals. <i>Physical Review Letters</i> , 2017 , 119, 026404	7.4	112
144	Large-Area and High-Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , 2017 , 29, 1603471	24	140
143	Metal-Semiconductor Phase-Transition in WSe Te Monolayer. <i>Advanced Materials</i> , 2017 , 29, 1603991	24	88
142	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. <i>Science Advances</i> , 2017 , 3, e1603266	14.3	124
141	Three-dimensional Dirac cone carrier dynamics in Na3Bi and Cd3As2. <i>Physical Review B</i> , 2016 , 94,	3.3	36
140	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate MoxW1⊠Te2. <i>Physical Review B</i> , 2016 , 94,	3.3	106
139	Multiple unpinned Dirac points in group-Va single-layers with phosphorene structure. <i>Npj Computational Materials</i> , 2016 , 2,	10.9	38
138	Two-dimensional Topological Crystalline Insulator Phase in Sb/Bi Planar Honeycomb with Tunable Dirac Gap. <i>Scientific Reports</i> , 2016 , 6, 18993	4.9	14
137	Role of surface termination in realizing well-isolated topological surface states within the bulk band gap in TlBiSe2 and TlBiTe2. <i>Physical Review B</i> , 2016 , 93,	3.3	6
136	Drumhead surface states and topological nodal-line fermions in TlTaSe2. <i>Physical Review B</i> , 2016 , 93,	3.3	201
135	Chiral p-wave superconductivity in Sb(111) thin films close to Van Hove singularities. <i>Physical Review B</i> , 2016 , 93,	3.3	6
134	Hedgehog spin texture and competing orders associated with strains on the surface of a topological crystalline insulator. <i>Physical Review B</i> , 2016 , 93,	3.3	2
133	Observation of metallic surface states in the strongly correlated Kitaev-Heisenberg candidate Na2IrO3. <i>Physical Review B</i> , 2016 , 93,	3.3	12
132	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. <i>Physical Review Letters</i> , 2016 , 116, 066601	7.4	43
131	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. <i>Physical Review Letters</i> , 2016 , 116, 096801	7.4	72
130	Coexistence of Midgap Antiferromagnetic and Mott States in Undoped, Hole- and Electron-Doped Ambipolar Cuprates. <i>Physical Review Letters</i> , 2016 , 116, 197002	7.4	10
129	Colloquium: Topological band theory. Reviews of Modern Physics, 2016, 88,	40.5	745
128	Prediction of two-dimensional topological insulator by forming a surface alloy on Au/Si(111) substrate. <i>Physical Review B</i> , 2016 , 93,	3.3	22

(2016-2016)

127	Topological Dirac surface states and superconducting pairing correlations in PbTaSe2. <i>Physical Review B</i> , 2016 , 93,	3.3	58
126	Prediction of Quantum Anomalous Hall Insulator in half-fluorinated GaBi Honeycomb. <i>Scientific Reports</i> , 2016 , 6, 31317	4.9	8
125	A strongly robust type II Weyl fermion semimetal state in TaS. <i>Science Advances</i> , 2016 , 2, e1600295	14.3	95
124	Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd. <i>Nature Communications</i> , 2016 , 7, 13315	17.4	33
123	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. <i>Nature Communications</i> , 2016 , 7, 10735	17.4	455
122	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. <i>ACS Nano</i> , 2016 , 10, 1378-85	16.7	93
121	Prediction of an arc-tunable Weyl Fermion metallic state in Mo(x)W(1-x)Te2. <i>Nature Communications</i> , 2016 , 7, 10639	17.4	216
120	Topological nodal-line fermions in spin-orbit metal PbTaSe2. <i>Nature Communications</i> , 2016 , 7, 10556	17.4	514
119	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. <i>Physical Review Letters</i> , 2016 , 116, 066802	7-4	107
118	New type of Weyl semimetal with quadratic double Weyl fermions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1180-5	11.5	199
117	Topological insulators and superconductivity: The integrity of two sides. <i>Nature Materials</i> , 2016 , 15, 927	'- 2 57	4
116	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. <i>Physical Review Letters</i> , 2016 , 117, 266804	7.4	50
115	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler CoTiX (X=Si, Ge, or Sn). <i>Scientific Reports</i> , 2016 , 6, 38839	4.9	113
114	Discovery of a new type of topological Weyl fermion semimetal state in MoWTe. <i>Nature Communications</i> , 2016 , 7, 13643	17.4	134
113	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
112	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. <i>Advanced Functional Materials</i> , 2016 , 26, 137	-1 4 .5	125
111	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. <i>2D Materials</i> , 2016 , 3, 021009	5.9	19
110	Understanding the magnetic interaction between intrinsic defects and impurity ions in room-temperature ferromagnetic Mg1-xFexO thin films. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 156002	1.8	4

109	The nontrivial electronic structure of Bi/Sb honeycombs on SiC(0001). <i>New Journal of Physics</i> , 2015 , 17, 025005	2.9	75
108	Carrier transport in Bi2Se3 topological insulator slab. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 74, 10-19	3	1
107	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monopnictide TaAs class. <i>Nature Communications</i> , 2015 , 6, 7373	17.4	1068
106	TOPOLOGICAL MATTER. Discovery of a Weyl fermion semimetal and topological Fermi arcs. <i>Science</i> , 2015 , 349, 613-7	33.3	2165
105	Unconventional transformation of spin Dirac phase across a topological quantum phase transition. <i>Nature Communications</i> , 2015 , 6, 6870	17.4	28
104	Nanoscale determination of the mass enhancement factor in the lightly doped bulk insulator lead selenide. <i>Nature Communications</i> , 2015 , 6, 6559	17.4	8
103	Robust Large Gap Two-Dimensional Topological Insulators in Hydrogenated III-V Buckled Honeycombs. <i>Nano Letters</i> , 2015 , 15, 6568-74	11.5	80
102	Quantum anomalous Hall effect and a nontrivial spin-texture in ultra-thin films of magnetic topological insulators. <i>Journal of Applied Physics</i> , 2015 , 117, 17C741	2.5	2
101	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. <i>Nature Physics</i> , 2015 , 11, 748-75	5416.2	674
100	Significantly enhanced giant Rashba splitting in a thin film of binary alloy. <i>New Journal of Physics</i> , 2015 , 17, 083015	2.9	5
99	Visible Surface Plasmon Modes in Single Bi⊞elNanoplate. <i>Nano Letters</i> , 2015 , 15, 8331-5	11.5	57
98	Observation of Fermi arc surface states in a topological metal. <i>Science</i> , 2015 , 347, 294-8	33.3	488
97	Topological properties determined by atomic buckling in self-assembled ultrathin Bi(110). <i>Nano Letters</i> , 2015 , 15, 80-7	11.5	131
96	Two distinct topological phases in the mixed-valence compound YbB6 and its differences from SmB6. <i>Physical Review B</i> , 2015 , 91,	3.3	13
95	Electronic structure, spin-orbit coupling, and interlayer interaction in bulk MoS2 and WS2. <i>Physical Review B</i> , 2015 , 91,	3.3	92
94	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. <i>Physical Review B</i> , 2015 , 91,	3.3	12
93	Lifshitz transition and Van Hove singularity in a three-dimensional topological Dirac semimetal. <i>Physical Review B</i> , 2015 , 92,	3.3	28
92	Topological phase diagram and saddle point singularity in a tunable topological crystalline insulator. <i>Physical Review B</i> , 2015 , 92,	3.3	21

91	Van Hove singularity and ferromagnetic instability in phosphorene. <i>Physical Review B</i> , 2015 , 92,	3.3	29
90	Fermi surface topology and hot spot distribution in the Kondo lattice system CeB6. <i>Physical Review B</i> , 2015 , 92,	3.3	26
89	Quantum anomalous Hall effect with field-tunable Chern number near Z2 topological critical point. <i>Physical Review B</i> , 2015 , 92,	3.3	3
88	Tunable spin helical Dirac quasiparticles on the surface of three-dimensional HgTe. <i>Physical Review B</i> , 2015 , 92,	3.3	16
87	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. <i>Physical Review B</i> , 2015 , 92,	3.3	102
86	Predicted Growth of Two-Dimensional Topological Insulator Thin Films of III-V Compounds on Si(111) Substrate. <i>Scientific Reports</i> , 2015 , 5, 15463	4.9	39
85	Effects of interlayer interaction in van der Waals layered black phosphorus for sub-10 nm FET 2015 ,		5
84	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015 , 27, 7800-8	24	94
83	Experimental discovery of a topological Weyl semimetal state in TaP. Science Advances, 2015, 1, e1501	09 124.3	241
82	Dirac mass generation from crystal symmetry breaking on the surfaces of topological crystalline insulators. <i>Nature Materials</i> , 2015 , 14, 318-24	27	93
81	Non-Kondo-like electronic structure in the correlated rare-earth hexaboride YbB(6). <i>Physical Review Letters</i> , 2015 , 114, 016403	7.4	42
80	A Minimal tight-binding model for ferromagnetic canted bilayer manganites. <i>Scientific Reports</i> , 2014 , 4, 7512	4.9	2
79	Thickness dependence of spin polarization and electronic structure of ultra-thin films of MoS2 and related transition-metal dichalcogenides. <i>Scientific Reports</i> , 2014 , 4, 6270	4.9	30
78	Y-shape spin-separator for two-dimensional group-IV nanoribbons based on quantum spin hall effect. <i>Applied Physics Letters</i> , 2014 , 104, 032410	3.4	11
77	Observation of a three-dimensional topological Dirac semimetal phase in high-mobility Cd3As2. <i>Nature Communications</i> , 2014 , 5, 3786	17.4	938
76	Observation of quantum-tunnelling-modulated spin texture in ultrathin topological insulator Bi2Se3 films. <i>Nature Communications</i> , 2014 , 5, 3841	17.4	99
75	Prediction of large-gap two-dimensional topological insulators consisting of bilayers of group III elements with Bi. <i>Nano Letters</i> , 2014 , 14, 2505-8	11.5	153
74	The changing colors of a quantum-confined topological insulator. <i>ACS Nano</i> , 2014 , 8, 1222-30	16.7	29

73	Direct observation of the transition from indirect to direct bandgap in atomically thin epitaxial MoSe2. <i>Nature Nanotechnology</i> , 2014 , 9, 111-5	28.7	943
72	Nanoscale interplay of strain and doping in a high-temperature superconductor. <i>Nano Letters</i> , 2014 , 14, 6749-53	11.5	18
71	Role of acoustic phonons in Bi2Se3 topological insulator slabs: A quantum transport investigation. <i>Physical Review B</i> , 2014 , 89,	3.3	10
70	Spin-correlated electronic state on the surface of a spin-orbit Mott system. <i>Physical Review B</i> , 2014 , 90,	3.3	11
69	Mapping the unconventional orbital texture in topological crystalline insulators. <i>Nature Physics</i> , 2014 , 10, 572-577	16.2	70
68	Electrically tunable localized tunneling channels in silicene nanoribbons. <i>Applied Physics Letters</i> , 2014 , 104, 173104	3.4	12
67	First-principles study of atomic structures and electronic properties of ultrathin Bi films on Ge(111). <i>Surface Science</i> , 2014 , 626, 68-75	1.8	8
66	Strain driven topological phase transitions in atomically thin films of group IV and V elements in the honeycomb structures. <i>New Journal of Physics</i> , 2014 , 16, 105018	2.9	48
65	Tunable topological electronic structure of silicene on a semiconducting Bi/Si(111)-3B substrate. <i>Physical Review B</i> , 2014 , 90,	3.3	11
64	Stable structure of high In coverage on Si(111)BB-Au. <i>Physical Review B</i> , 2014 , 90,	3.3	4
64		3.3	8
	Stable structure of high In coverage on Si(111)BB-Au. <i>Physical Review B</i> , 2014 , 90, Topological phase transition and quantum spin Hall state in TlBiS2. <i>Journal of Applied Physics</i> , 2014 ,		
63	Stable structure of high In coverage on Si(111)BB-Au. <i>Physical Review B</i> , 2014 , 90, Topological phase transition and quantum spin Hall state in TlBiS2. <i>Journal of Applied Physics</i> , 2014 , 116, 033704 Hydrogenated ultra-thin tin films predicted as two-dimensional topological insulators. <i>New Journal</i>	2.5	8
63	Stable structure of high In coverage on Si(111)BB-Au. <i>Physical Review B</i> , 2014 , 90, Topological phase transition and quantum spin Hall state in TlBiS2. <i>Journal of Applied Physics</i> , 2014 , 116, 033704 Hydrogenated ultra-thin tin films predicted as two-dimensional topological insulators. <i>New Journal of Physics</i> , 2014 , 16, 115008 Topological phase transition and two-dimensional topological insulators in Ge-based thin films.	2.5	8
63 62 61	Stable structure of high In coverage on Si(111)BB-Au. <i>Physical Review B</i> , 2014 , 90, Topological phase transition and quantum spin Hall state in TlBiS2. <i>Journal of Applied Physics</i> , 2014 , 116, 033704 Hydrogenated ultra-thin tin films predicted as two-dimensional topological insulators. <i>New Journal of Physics</i> , 2014 , 16, 115008 Topological phase transition and two-dimensional topological insulators in Ge-based thin films. <i>Physical Review B</i> , 2013 , 88, Observation of Dirac node formation and mass acquisition in a topological crystalline insulator.	2.5 2.9 3.3	8 49 15
63 62 61	Stable structure of high In coverage on Si(111)BB-Au. <i>Physical Review B</i> , 2014 , 90, Topological phase transition and quantum spin Hall state in TlBiS2. <i>Journal of Applied Physics</i> , 2014 , 116, 033704 Hydrogenated ultra-thin tin films predicted as two-dimensional topological insulators. <i>New Journal of Physics</i> , 2014 , 16, 115008 Topological phase transition and two-dimensional topological insulators in Ge-based thin films. <i>Physical Review B</i> , 2013 , 88, Observation of Dirac node formation and mass acquisition in a topological crystalline insulator. <i>Science</i> , 2013 , 341, 1496-9 Surface electronic structure of the topological Kondo-insulator candidate correlated electron	2.5 2.9 3.3 33.3	8 49 15 219
63 62 61 60	Stable structure of high In coverage on Si(111)BB-Au. <i>Physical Review B</i> , 2014 , 90, Topological phase transition and quantum spin Hall state in TlBiS2. <i>Journal of Applied Physics</i> , 2014 , 116, 033704 Hydrogenated ultra-thin tin films predicted as two-dimensional topological insulators. <i>New Journal of Physics</i> , 2014 , 16, 115008 Topological phase transition and two-dimensional topological insulators in Ge-based thin films. <i>Physical Review B</i> , 2013 , 88, Observation of Dirac node formation and mass acquisition in a topological crystalline insulator. <i>Science</i> , 2013 , 341, 1496-9 Surface electronic structure of the topological Kondo-insulator candidate correlated electron system SmB6. <i>Nature Communications</i> , 2013 , 4, 2991 Nontrivial spin texture of the coaxial Dirac cones on the surface of topological crystalline insulator	2.5 2.9 3.3 33.3	8 49 15 219 267

(2012-2013)

55	Tunable topological electronic structures in Sb(111) bilayers: A first-principles study. <i>Applied Physics Letters</i> , 2013 , 102, 022424	3.4	92
54	Reversal of the circular dichroism in angle-resolved photoemission from Bi2Te3. <i>Physical Review Letters</i> , 2013 , 110, 216801	7.4	63
53	Imaging the evolution of metallic states in a correlated iridate. <i>Nature Materials</i> , 2013 , 12, 707-13	27	63
52	Topological dangling bonds with large spin splitting and enhanced spin polarization on the surfaces of Bi2Se3. <i>Nano Letters</i> , 2013 , 13, 1915-9	11.5	32
51	Adiabatic transformation as a search tool for new topological insulators: Distorted ternary Li2AgSb-class semiconductors and related compounds. <i>Physical Review B</i> , 2013 , 87,	3.3	16
50	Nontrivial topological electronic structures in a single Bi(111) bilayer on different substrates: A first-principles study. <i>Physical Review B</i> , 2013 , 88,	3.3	73
49	Oscillatory surface dichroism of the insulating topological insulator Bi2Te2Se. <i>Physical Review B</i> , 2013 , 88,	3.3	33
48	Symmetry-broken electronic structure and uniaxial Fermi surface nesting of untwinned CaFe2As2. <i>Physical Review B</i> , 2013 , 88,	3.3	10
47	Observation of a topological crystalline insulator phase and topological phase transition in Pb(1-x)Sn(x)Te. <i>Nature Communications</i> , 2012 , 3, 1192	17.4	481
46	Phase transformation and lithiation effect on electronic structure of Li(x)FePO4: an in-depth study by soft X-ray and simulations. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13708-15	16.4	121
45	Modeling Highly Resolved Spectroscopies of Complex Materials. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012 , 25, 2135-2139	1.5	2
44	Topological surface states and Dirac point tuning in ternary topological insulators. <i>Physical Review B</i> , 2012 , 85,	3.3	141
43	Topological electronic structure and Weyl semimetal in the TlBiSe2 class of semiconductors. <i>Physical Review B</i> , 2012 , 86,	3.3	118
42	Lindhard and RPA susceptibility computations in extended momentum space in electron-doped cuprates. <i>Physical Review B</i> , 2012 , 85,	3.3	7
41	Hedgehog spin texture and Berry⊠ phase tuning in a magnetic topological insulator. <i>Nature Physics</i> , 2012 , 8, 616-622	16.2	308
40	Topological crystalline insulators in the SnTe material class. <i>Nature Communications</i> , 2012 , 3, 982	17.4	901
39	Nonmonotonic Fermi surface evolution and its correlation with stripe ordering in bilayer manganites. <i>Physical Review B</i> , 2012 , 86,	3.3	3
38	Coexisting pseudogap, charge-transfer-gap, and Mott-gap energy scales in the resonant inelastic x-ray scattering spectra of electron-doped cuprate superconductors. <i>Physical Review B</i> , 2012 , 85,	3.3	6

37	Bulk Fermi surface and momentum density in heavily doped La2\(\mathbb{B}\)SrxCuO4 using high-resolution Compton scattering and positron annihilation spectroscopies. <i>Physical Review B</i> , 2012 , 85,	3.3	9
36	Fermi-surface topology and low-lying electronic structure of the iron-based superconductor Ca10(Pt3As8)(Fe2As2)5. <i>Physical Review B</i> , 2012 , 85,	3.3	30
35	Topological phase transition and texture inversion in a tunable topological insulator. <i>Science</i> , 2011 , 332, 560-4	33.3	358
34	Direct observation of broken time-reversal symmetry on the surface of a magnetically doped topological insulator. <i>Physical Review Letters</i> , 2011 , 106, 206805	7.4	126
33	A topological insulator surface under strong Coulomb, magnetic and disorder perturbations. <i>Nature Physics</i> , 2011 , 7, 32-37	16.2	479
32	Topological insulators in the quaternary chalcogenide compounds and ternary famatinite compounds. <i>New Journal of Physics</i> , 2011 , 13, 085017	2.9	30
31	X-ray absorption near-edge spectra of overdoped La2\sumset SrxCuO4 high-Tc superconductors. <i>Physical Review B</i> , 2011 , 83,	3.3	11
30	Interplay of matrix element, self-energy and geometric effects in various spectroscopies of the cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 341-346	3.9	4
29	An isolated Dirac cone on the surface of ternary tetradymite-like topological insulators. <i>New Journal of Physics</i> , 2011 , 13, 095005	2.9	31
28	Renormalization of f levels away from the Fermi energy in electron excitation spectroscopies: Density-functional results for Nd2\(\text{Nd2}\(\tex	3.3	14
27	Spin texture on the warped Dirac-cone surface states in topological insulators. <i>Physical Review B</i> , 2011 , 84,	3.3	57
26	Spin-orbital ground states of superconducting doped topological insulators: A Majorana platform. <i>Physical Review B</i> , 2011 , 83,	3.3	28
25	Imaging doped holes in a cuprate superconductor with high-resolution Compton scattering. <i>Science</i> , 2011 , 332, 698-702	33.3	70
24	Half-Heusler ternary compounds as new multifunctional experimental platforms for topological quantum phenomena. <i>Nature Materials</i> , 2010 , 9, 546-9	27	531
23	Observation of topological order in a superconducting doped topological insulator. <i>Nature Physics</i> , 2010 , 6, 855-859	16.2	350
22	Proposal to determine the Fermi-surface topology of a doped iron-based superconductor using bulk-sensitive Fourier-transform Compton scattering. <i>Physical Review B</i> , 2010 , 81,	3.3	7
21	Topological electronic structure in half-Heusler topological insulators. <i>Physical Review B</i> , 2010 , 82,	3.3	213
20	Single-Dirac-cone topological surface states in the TlBiSe(2) class of topological semiconductors. <i>Physical Review Letters</i> , 2010 , 105, 036404	7.4	162

(2002-2009)

19	Origin of the electron-hole asymmetry in the scanning tunneling spectrum of the high-temperature Bi2Sr2CaCu2O8+delta superconductor. <i>Physical Review Letters</i> , 2009 , 102, 037001	7.4	42
18	Role of oxygen electrons in the metal-insulator transition in the magnetoresistive oxide La2-2xSr1+2xMn2O7 probed by compton scattering. <i>Physical Review Letters</i> , 2009 , 102, 206402	7.4	26
17	Spectral decomposition and matrix element effects in scanning tunneling spectroscopy of Bi2Sr2CaCu2O8+ \square <i>Physical Review B</i> , 2009 , 80,	3.3	28
16	Origin of the high-energy kink in the photoemission spectrum of the high-temperature superconductor Bi2Sr2CaCu2O8. <i>Physical Review B</i> , 2009 , 80,	3.3	41
15	High Resolution Compton Scattering as a Probe of the Fermi Surface in the Iron-based Superconductor LaO1☑ F x FeAs. <i>Journal of Superconductivity and Novel Magnetism</i> , 2009 , 22, 569-573	1.5	2
14	A tunable topological insulator in the spin helical Dirac transport regime. <i>Nature</i> , 2009 , 460, 1101-5	50.4	1548
13	Observation of a large-gap topological-insulator class with a single Dirac cone on the surface. <i>Nature Physics</i> , 2009 , 5, 398-402	16.2	2788
12	Observation of time-reversal-protected single-dirac-cone topological-insulator states in Bi2Te3 and Sb2Te3. <i>Physical Review Letters</i> , 2009 , 103, 146401	7.4	769
11	A Noninvasive Quantum Thermometer. <i>Physics Magazine</i> , 2009 , 2,	1.1	20
10	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. <i>Physical Review B</i> , 2008 , 78,	3.3	15
9	Appearance of universal metallic dispersion in a doped Mott insulator. <i>Physical Review B</i> , 2008 , 78,	3.3	9
8	Chemical potential shift of Fe3NVxSi studied by hard x-ray photoemission. <i>Physical Review B</i> , 2008 , 78,	3.3	3
7	Effect of hole doping on the electronic structure of Tl2201. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 428-429	1.3	4
6	Modeling electronic structure and highly resolved spectroscopies of cuprates: ARPES, RIXS and STM. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 222-225	1.3	1
5	Hierarchy of multiple many-body interaction scales in high-temperature superconductors. <i>Physical Review B</i> , 2007 , 75,	3.3	116
4	Raising Bi-O bands above the Fermi energy level of hole-doped Bi2Sr2CaCu2O8+delta and other cuprate superconductors. <i>Physical Review Letters</i> , 2006 , 96, 097001	7.4	60
3	One-band tight-binding model parametrization of the high-Tc cuprates including the effect of kz dispersion. <i>Physical Review B</i> , 2005 , 72,	3.3	126
2	Auger width and branching ratios for berylliumlike 1s2s2np1Po and 1s2p31Po resonances and photoionization of beryllium from 1s22s21S. <i>Physical Review A</i> , 2002 , 65,	2.6	25

Deep donor levels in Sn-doped AlxGa1NAs. *Journal of Applied Physics*, **1992**, 71, 5952-5956

2.5 14