

Horng-Tay Jeng

List of Publications by Year in Descending Order

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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.

91
papers

8,004
citations

36
h-index

89
g-index

98
ext. papers

9,360
ext. citations

8.8
avg, IF

5.47
L-index

#	Paper	IF	Citations
91	Enormous Berry-Curvature-Based Anomalous Hall Effect in Topological Insulator (Bi,Sb)Te on Ferrimagnetic Europium Iron Garnet beyond 400 K.. <i>ACS Nano</i> , 2022 ,	16.7	2
90	Modulation Doping Enables Ultrahigh Power Factor and Thermoelectric ZT in n-Type Bi Te Se.. <i>Advanced Science</i> , 2022 , e2201353	13.6	2
89	Reduction of dopant ions and enhancement of magnetic properties by UV irradiation in Ce-doped TiO. <i>Scientific Reports</i> , 2021 , 11, 7668	4.9	2
88	First-Principles Calculations Predict Tunable Large Magnetic Anisotropy Due to Spin-Polarized Quantum-Well Resonances in Nanometer-Thick SrRuO ₃ Films: Implications for Spintronic Devices. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5932-5939	5.6	2
87	Thermally Strain-Induced Band Gap Opening on Platinum Diselenide-Layered Films: A Promising Two-Dimensional Material with Excellent Thermoelectric Performance. <i>Chemistry of Materials</i> , 2021 , 33, 3490-3498	9.6	4
86	Indirect interactions of metal nanoparticles through graphene. <i>Carbon</i> , 2021 , 174, 132-137	10.4	0
85	A first-principles study of rare earth quaternary Heusler compounds: RXVZ (R = Yb, Lu; X = Fe, Co, Ni; Z = Al, Si). <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 2264-2274	3.6	7
84	Topological Phase and Quantum Anomalous Hall Effect in Ferromagnetic Transition-Metal Dichalcogenides Monolayer 1T-VSe ₂ . <i>Nanomaterials</i> , 2021 , 11,	5.4	2
83	Topological Proximity-Induced Dirac Fermion in Two-Dimensional Antimonene. <i>ACS Nano</i> , 2021 , 15, 15085-15095	15.7	15
82	Orbital ordering and magnetism in layered Perovskite Ruthenate SrRuO. <i>Scientific Reports</i> , 2020 , 10, 7089	4.9	2
81	Enhancing Quantum Yield in Strained MoS ₂ Bilayers by Morphology-Controlled Plasmonic Nanostructures toward Superior Photodetectors. <i>Chemistry of Materials</i> , 2020 , 32, 2242-2252	9.6	13
80	Electronic structure of a (3 β)-ordered silicon layer on Al(111). <i>Physical Review Materials</i> , 2020 , 4,	3.2	4
79	Observing quantum trapping on MoS ₂ through the lifetimes of resonant electrons: revealing the Pauli exclusion principle. <i>Nanoscale Advances</i> , 2020 , 2, 5848-5856	5.1	0
78	Topological Phase and Strong Correlation in Rare-Earth Hexaborides XB (X = La, Ce, Pr, Nd, Pm, Sm, Eu). <i>Materials</i> , 2020 , 13,	3.5	4
77	Green Treatment of Phosphate from Wastewater Using a Porous Bio-Templated Graphene Oxide/MgMn-Layered Double Hydroxide Composite. <i>iScience</i> , 2020 , 23, 101065	6.1	9
76	Orbital-enhanced warping effect in px,py-derived Rashba spin splitting of monatomic bismuth surface alloy. <i>Npj Quantum Materials</i> , 2020 , 5,	5	1
75	Unconventional topological phase transition in non-symmorphic material KHgX (X = As, Sb, Bi). <i>Npj Computational Materials</i> , 2019 , 5,	10.9	3

74	Enhancement of catalytic activity by UV-light irradiation in CeO nanocrystals. <i>Scientific Reports</i> , 2019 , 9, 8018	4.9	9
73	Tunable disorder and localization in the rare-earth nickelates. <i>Physical Review Materials</i> , 2019 , 3,	3.2	5
72	Negative circular polarization emissions from WSe/MoSe commensurate heterobilayers. <i>Nature Communications</i> , 2018 , 9, 1356	17.4	61
71	Magnetic and noncentrosymmetric Weyl fermion semimetals in the RAlGe family of compounds (R=rareearth). <i>Physical Review B</i> , 2018 , 97,	3.3	74
70	Multiple topological electronic phases in superconductor MoC. <i>Physical Review Materials</i> , 2018 , 2,	3.2	6
69	Strongly Enhanced Thermoelectric Performance over a Wide Temperature Range in Topological Insulator Thin Films. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	3
68	Inter-Layer Coupling Induced Valence Band Edge Shift in Mono- to Few-Layer MoS. <i>Scientific Reports</i> , 2017 , 7, 40559	4.9	25
67	Magnetic Phase Transition of $\{\mathrm{La}\}_{1-x}\{\mathrm{Sr}\}_x\{\mathrm{MnO}\}_3$ Induced by Charge Transfer and Interdiffusion. <i>IEEE Magnetics Letters</i> , 2017 , 8, 1-5	1.6	
66	Wide-range ideal 2D Rashba electron gas with large spin splitting in Bi ₂ Se ₃ /MoTe ₂ heterostructure. <i>Npj Computational Materials</i> , 2017 , 3,	10.9	19
65	Evidence of indirect gap in monolayer WSe. <i>Nature Communications</i> , 2017 , 8, 929	17.4	72
64	Selective Hydrogen Etching Leads to 2D Bi(111) Bilayers on Bi ₂ Se ₃ : Large Rashba Splitting in Topological Insulator Heterostructure. <i>Chemistry of Materials</i> , 2017 , 29, 8992-9000	9.6	11
63	Quasiparticle Interference on Cubic Perovskite Oxide Surfaces. <i>Physical Review Letters</i> , 2017 , 119, 086801	7.4	15
62	Atomic-scale visualization of surface-assisted orbital order. <i>Science Advances</i> , 2017 , 3, eaao0362	14.3	8
61	Nexus fermions in topological symmorphic crystalline metals. <i>Scientific Reports</i> , 2017 , 7, 1688	4.9	97
60	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. <i>Nature Communications</i> , 2017 , 8, 942	17.4	57
59	Carrier-driven coupling in ferromagnetic oxide heterostructures. <i>Physical Review B</i> , 2017 , 96,	3.3	3
58	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. <i>Physical Review Letters</i> , 2017 , 119, 196403	7.4	17
57	Ultraquantum magnetoresistance in the Kramers-Weyl semimetal candidate $\mathrm{Ag}_2\mathrm{Se}$. <i>Physical Review B</i> , 2017 , 96,	3.3	18

56	Type-II Symmetry-Protected Topological Dirac Semimetals. <i>Physical Review Letters</i> , 2017 , 119, 026404	7.4	112
55	Large-Area and High-Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , 2017 , 29, 1603471	24	140
54	Metal-Semiconductor Phase-Transition in WSe Te Monolayer. <i>Advanced Materials</i> , 2017 , 29, 1603991	24	88
53	Prediction of nontrivial band topology and superconductivity in Mg ₂ Pb. <i>Physical Review Materials</i> , 2017 , 1,	3.2	7
52	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. <i>Science Advances</i> , 2017 , 3, e1603266	14.3	124
51	Three-dimensional Dirac cone carrier dynamics in Na ₃ Bi and Cd ₃ As ₂ . <i>Physical Review B</i> , 2016 , 94,	3.3	36
50	Superconducting topological surface states in the noncentrosymmetric bulk superconductor PbTaSe. <i>Science Advances</i> , 2016 , 2, e1600894	14.3	88
49	Prominent role of oxygen in the multiferroicity of DyMnO ₃ and TbMnO ₃ : A resonant soft x-ray scattering spectroscopy study. <i>Physical Review B</i> , 2016 , 94,	3.3	4
48	Drumhead surface states and topological nodal-line fermions in TlTaSe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	201
47	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
46	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
45	Topological Dirac surface states and superconducting pairing correlations in PbTaSe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	58
44	A strongly robust type II Weyl fermion semimetal state in TaS. <i>Science Advances</i> , 2016 , 2, e1600295	14.3	95
43	Newtype single-layer magnetic semiconductor in transition-metal dichalcogenides VX ₂ (X = S, Se and Te). <i>Scientific Reports</i> , 2016 , 6, 32625	4.9	108
42	Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd. <i>Nature Communications</i> , 2016 , 7, 13315	17.4	33
41	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. <i>Nature Communications</i> , 2016 , 7, 10735	17.4	455
40	Ab initio study of the PbTaSe ₂ -related superconducting topological metals. <i>Physical Review B</i> , 2016 , 94,	3.3	13
39	Local property change of graphene induced by a Cu nanoparticle. <i>Carbon</i> , 2016 , 98, 666-670	10.4	3

38	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
37	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
36	Topological nodal-line fermions in spin-orbit metal PbTaSe2. <i>Nature Communications</i> , 2016 , 7, 10556	17.4	514
35	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. <i>Physical Review Letters</i> , 2016 , 116, 066802	7.4	107
34	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
33	Newtype large Rashba splitting in quantum well states induced by spin chirality in metal/topological insulator heterostructures. <i>NPG Asia Materials</i> , 2016 , 8, e332-e332	10.3	6
32	High applicability of two-dimensional phosphorous in Kagome lattice predicted from first-principles calculations. <i>Scientific Reports</i> , 2016 , 6, 23151	4.9	13
31	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. <i>Physical Review Letters</i> , 2016 , 117, 266804	7.4	50
30	Large transverse Hall-like signal in topological Dirac semimetal Cd3As2. <i>Scientific Reports</i> , 2016 , 6, 27487	4.9	13
29	Discovery of a new type of topological Weyl fermion semimetal state in MoWTe. <i>Nature Communications</i> , 2016 , 7, 13643	17.4	134
28	Unconventional transformation of spin Dirac phase across a topological quantum phase transition. <i>Nature Communications</i> , 2015 , 6, 6870	17.4	28
27	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. <i>Nature Physics</i> , 2015 , 11, 748-754	16.2	674
26	Observation of Fermi arc surface states in a topological metal. <i>Science</i> , 2015 , 347, 294-8	33.3	488
25	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
24	Electronic structure, spin-orbit coupling, and interlayer interaction in bulk MoS2 and WS2. <i>Physical Review B</i> , 2015 , 91,	3.3	92
23	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. <i>Physical Review B</i> , 2015 , 91,	3.3	12
22	Fermi surface topology and hot spot distribution in the Kondo lattice system CeB6. <i>Physical Review B</i> , 2015 , 92,	3.3	26
21	Deeper insight into phase relations in ultrathin Pb films. <i>Physical Review B</i> , 2015 , 92,	3.3	8

20	Tunable spin helical Dirac quasiparticles on the surface of three-dimensional HgTe. <i>Physical Review B</i> , 2015 , 92,	3.3	16
19	Direct transition resonance in atomically uniform topological Sb(111) thin films. <i>Physical Review B</i> , 2015 , 92,	3.3	2
18	Phase diagram of the layered oxide SnO: GW and electron-phonon studies. <i>Scientific Reports</i> , 2015 , 5, 16359	4.9	15
17	Selective interlayer ferromagnetic coupling between the Cu spins in YBa ₂ Cu ₃ O _{7-x} grown on top of La _{0.7} Ca _{0.3} MnO ₃ . <i>Scientific Reports</i> , 2015 , 5, 16690	4.9	8
16	Experimental discovery of a topological Weyl semimetal state in TaP. <i>Science Advances</i> , 2015 , 1, e1501092	14.3	241
15	Thickness dependence of spin polarization and electronic structure of ultra-thin films of MoS ₂ and related transition-metal dichalcogenides. <i>Scientific Reports</i> , 2014 , 4, 6270	4.9	30
14	Observation of a three-dimensional topological Dirac semimetal phase in high-mobility Cd ₃ As ₂ . <i>Nature Communications</i> , 2014 , 5, 3786	17.4	938
13	Observation of quantum-tunnelling-modulated spin texture in ultrathin topological insulator Bi ₂ Se ₃ films. <i>Nature Communications</i> , 2014 , 5, 3841	17.4	99
12	Direct observation of the transition from indirect to direct bandgap in atomically thin epitaxial MoSe ₂ . <i>Nature Nanotechnology</i> , 2014 , 9, 1111-5	28.7	943
11	Spin-correlated electronic state on the surface of a spin-orbit Mott system. <i>Physical Review B</i> , 2014 , 90,	3.3	11
10	Hedgehog spin texture and Berry phase tuning in a magnetic topological insulator. <i>Nature Physics</i> , 2012 , 8, 616-622	16.2	308
9	Charge-orbital ordering and ferroelectric polarization in multiferroic TbMn ₂ O ₅ from first principles. <i>Physical Review B</i> , 2011 , 84,	3.3	19
8	Electronic structure and orbital ordering of SrRu _{1-x} Ti _x O ₃ : GGA+U investigations. <i>Physical Review B</i> , 2008 , 77,	3.3	14
7	Charge-orbital ordering in low-temperature structures of magnetite: GGA+U investigations. <i>Physical Review B</i> , 2006 , 74,	3.3	73
6	Orbital ordering and Jahn-Teller distortion in Perovskite ruthenate SrRuO ₃ . <i>Physical Review Letters</i> , 2006 , 97, 067002	7.4	76
5	Charge-orbital ordering and Verwey transition in magnetite. <i>Physical Review Letters</i> , 2004 , 93, 156403	7.4	230
4	First-Principles Calculation of the Orbital Magnetic Moment of O and Cr in Half-metallic CrO ₂ . <i>Materials Research Society Symposia Proceedings</i> , 2002 , 718, 1		
3	First-principles investigations of the magnetocrystalline anisotropy in strained Ni-substituted magnetite (NiFe ₂ O ₄). <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 240, 436-438	2.8	17

2	Relativistic density-functional calculations of interconfigurational energies for second and third transition-metal rows. <i>Physical Review B</i> , 2002 , 66,	3-3	7
1	First-principles investigations of the orbital magnetic moments in CrO ₂ . <i>Journal of Applied Physics</i> , 2002 , 92, 951-957	2-5	24