Yu-Lin Chen

List of Publications by Year
in descending order

85 papers	17,137 citations	76326 40 h-index	56724 83 g-index
90 all docs	90 docs citations	90 times ranked	15097 citing authors

#	Article	IF	Citations
1	Experimental Realization of a Three-Dimensional Topological Insulator, Bi ₂ Te ₃. Science, 2009, 325, 178-181.	12.6	3,095
2	Discovery of a Three-Dimensional Topological Dirac Semimetal, Na ₃ Bi. Science, 2014, 343, 864-867.	12.6	1,889
3	A stable three-dimensional topological Dirac semimetal Cd3As2. Nature Materials, 2014, 13, 677-681.	27.5	1,242
4	Direct observation of the transition from indirect to direct bandgap in atomically thin epitaxial MoSe2. Nature Nanotechnology, 2014, 9, 111-115.	31.5	1,129
5	Massive Dirac Fermion on the Surface of a Magnetically Doped Topological Insulator. Science, 2010, 329, 659-662.	12.6	1,051
6	Giant anomalous Hall effect in a ferromagnetic kagome-lattice semimetal. Nature Physics, 2018, 14, 1125-1131.	16.7	876
7	Weyl semimetal phase in the non-centrosymmetric compound TaAs. Nature Physics, 2015, 11, 728-732.	16.7	796
8	Quantum spin Hall state in monolayer 1T'-WTe2. Nature Physics, 2017, 13, 683-687.	16.7	596
9	Magnetic Weyl semimetal phase in a KagomÃ© crystal. Science, 2019, 365, 1282-1285.	12.6	518
10	High electron mobility and quantum oscillations in non-encapsulated ultrathin semiconducting Bi2O2Se. Nature Nanotechnology, 2017, 12, 530-534.	31.5	507
11	Bulk Fermi surface coexistence with Dirac surface state in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Bi</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms A comparison of photoemission and Shubnikovâ€“de Haas measurements. Physical Review B, 2010, 81, .	3.2	425
12	Signature of type-II Weyl semimetal phase in MoTe2. Nature Communications, 2017, 8, 13973.	12.8	358
13	Linear Magnetoresistance Caused by Mobility Fluctuations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-Doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Physical Review Letters, 2015, 114, 117201.	7.8	306
14	Emergence of the nematic electronic state in FeSe. Physical Review B, 2015, 91, .	3.2	302
15	Giant, unconventional anomalous Hall effect in the metallic frustrated magnet candidate, KV ₃ Sb ₅. Science Advances, 2020, 6, eabb6003.	10.3	295
16	Evolution of the Fermi surface of Weyl semimetals in the transition metal pnictide family. Nature Materials, 2016, 15, 27-31.	27.5	245
17	High-throughput calculations of magnetic topological materials. Nature, 2020, 586, 702-707.	27.8	241
18	Ultrafast and highly sensitive infrared photodetectors based on two-dimensional oxyselenide crystals. Nature Communications, 2018, 9, 3311.	12.8	213

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19	Single Dirac Cone Topological Surface State and Unusual Thermoelectric Property of Compounds from a New Topological Insulator Family. Physical Review Letters, 2010, 105, 266401.	7.8	195
20	Photonic topological insulator with broken time-reversal symmetry. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4924-4928.	7.1	193
21	Chiral topological semimetal with multifold band crossings and long Fermi arcs. Nature Physics, 2019, 15, 759-765.	16.7	184
22	Nontrivial Berry phase and type-II Dirac transport in the layered material<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>PdT</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	3.2	179
23	Patterning two-dimensional chalcogenide crystals of Bi2Se3 and In2Se3 and efficient photodetectors. Nature Communications, 2015, 6, 6972.	12.8	172
24	Electronic structures and unusually robust bandgap in an ultrahigh-mobility layered oxide semiconductor, Bi ₂ O ₂ Se. Science Advances, 2018, 4, eaat8355.	10.3	167
25	Electronic Structure, Surface Doping, and Optical Response in Epitaxial WSe₂ Thin Films. Nano Letters, 2016, 16, 2485-2491.	9.1	147
26	Selectively enhanced photocurrent generation in twisted bilayer graphene with van Hove singularity. Nature Communications, 2016, 7, 10699.	12.8	136
27	Dirac line nodes and effect of spin-orbit coupling in the nonsymmorphic critical semimetals <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:mi>SiS</mml:mi><mml:mspace width="0.16em" /><mml:mo>(</mml:mo><mml:mi>M</mml:mi><mml:mo>=</mml:mo><mml:mi>Hf</mml:mi><mml:mo>,</mml:mo><mml:mspace	3.2	131
28	Surface Monocrystallization of Copper Foil for Fast Growth of Large Singleâ€Crystal Graphene under Free Molecular Flow. Advanced Materials, 2016, 28, 8968-8974.	21.0	128
29	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. Nature Communications, 2021, 12, 2391.	12.8	92
30	Quantum oscillations of electrical resistivity in an insulator. Science, 2018, 362, 65-69.	12.6	79
31	Discovery of a single topological Dirac fermion in the strong inversion asymmetric compound BiTeCl. Nature Physics, 2013, 9, 704-708.	16.7	72
32	van Hove Singularity Enhanced Photochemical Reactivity of Twisted Bilayer Graphene. Nano Letters, 2015, 15, 5585-5589.	9.1	59
33	Molecular Beam Epitaxy and Electronic Structure of Atomically Thin Oxyselenide Films. Advanced Materials, 2019, 31, e1901964.	21.0	59
34	Visualizing electronic structures of quantum materials by angle-resolved photoemission spectroscopy. Nature Reviews Materials, 2018, 3, 341-353.	48.7	58
35	Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal CsV₃Sb₅. Advanced Materials, 2021, 33, e2102813.	21.0	54
36	Building Large-Domain Twisted Bilayer Graphene with van Hove Singularity. ACS Nano, 2016, 10, 6725-6730.	14.6	53

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37	Universal gapless Dirac cone and tunable topological states in <mml:math		

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55	A vacuum ultraviolet laser with a submicrometer spot for spatially resolved photoemission spectroscopy. Light: Science and Applications, 2021, 10, 22.	16.6	22
56	Strong spin-orbit coupling and Dirac nodal lines in the three-dimensional electronic structure of metallic rutile <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>IrO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml Physical Review B, 2019, 99, .	3.2	18
57	Engineered heterostructures. Nature Materials, 2017, 16, 3-4.	27.5	16
58	Direct observation of the spinâ€“orbit coupling effect in magnetic Weyl semimetal Co3Sn2S2. Npj Quantum Materials, 2022, 7, .	5.2	16
59	Growth of BiSe and BiTe on amorphous fused silica by MBE. Physica Status Solidi (B): Basic Research, 2015, 252, 1334-1338.	1.5	15
60	Super resolution convolutional neural network for feature extraction in spectroscopic data. Review of Scientific Instruments, 2020, 91, 033905.	1.3	15
61	Lifshitz Transitions Induced by Temperature and Surface Doping in Typeâ€II Weyl Semimetal Candidate T_dâ€WTe₂. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700209.	2.4	14
62	Band-selective Holstein polaron in Luttinger liquid material A0.3MoO3 (Aâ€‰=â€‰K, Rb). Nature Communications, 2021, 12, 6183.	12.8	13
63	Topological Lifshitz transition of the intersurface Fermi-arc loop in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NbIrTe</mml:mi><mml:mn>4</mml:mn></mml:msub></m Physical Review B, 2020, 102, .	3.2	12
64	Angle-Resolved Photoemission Spectroscopy Study of Topological Quantum Materials. Annual Review of Materials Research, 2020, 50, 131-153.	9.3	12
65	Quantum Oscillations in Noncentrosymmetric Weyl Semimetal SmAlSi. Chinese Physics Letters, 2022, 39, 047501.	3.3	12
66	Observing electronic structures on exâ€situ grown topological insulator thin films. Physica Status Solidi - Rapid Research Letters, 2013, 7, 130-132.	2.4	10
67	Pressure-induced superconductivity and structure phase transition in Pt2HgSe3. Npj Quantum Materials, 2021, 6, .	5.2	10
68	Electronic structure of the Si-containing topological Dirac semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CaA</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	3.2	9
69	Exploiting Twoâ€Dimensional Bi₂O₂Se for Trace Oxygen Detection. Angewandte Chemie, 2020, 132, 18094-18099.	2.0	7
70	Evolution of electronic structure and electron-phonon coupling in ultrathin tetragonal CoSe films. Physical Review Materials, 2018, 2, .	2.4	7
71	Topological phase transition in a magnetic Weyl semimetal. Physical Review B, 2021, 104, .	3.2	7
72	Observation of dimension-crossover of a tunable 1D Dirac fermion in topological semimetal NbSixTe2. Npj Quantum Materials, 2022, 7, .	5.2	7

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73	A new topological insulator built from quasi one-dimensional atomic ribbons. Physica Status Solidi - Rapid Research Letters, 2015, 9, 130-135.	2.4	6
74	How to probe the spin contribution to momentum relaxation in topological insulators. Nature Communications, 2018, 9, 56.	12.8	5
75	Visualization of the electronic phase separation in superconducting KxFe2â˜ySe2. Nano Research, 2021, 14, 823-828.	10.4	4
76	Surface photovoltaic effect and electronic structure of Î² -InSe. Physical Review Materials, 2020, 4, .	2.4	3
77	Single crystalline electronic structure and growth mechanism of aligned square graphene sheets. APL Materials, 2018, 6, .	5.1	2
78	Electronic structures of topological quantum materials studied by ARPES. Semiconductors and Semimetals, 2021, 108, 1-42.	0.7	2
79	Direct Visualization and Manipulation of Tunable Quantum Well State in Semiconducting Nb₂SiTe₄. ACS Nano, 2021, 15, 15850-15857.	14.6	2
80	Electronic structure of correlated topological insulator candidate YbB6 studied by photoemission and quantum oscillation. Chinese Physics B, 2020, 29, 017304.	1.4	1
81	Observation of the critical state to multiple-type Dirac semimetal phases in KMgBi. Journal of Applied Physics, 2021, 129, .	2.5	1
82	Electronic structure of a thermoelectric material: BiCuSO. Physical Review B, 2021, 103, .	3.2	1
83	Electronic structure and spinâ€“orbit coupling in ternary transition metal chalcogenides Cu₂TlX ₂ (X = Se, Te). Chinese Physics B, 2022, 31, 037101.	1.4	0
84	Measurement of the electronic structure of a type-II topological Dirac semimetal candidate VAl3 using angle-resolved photoelectron spectroscopy. Tungsten, 0, , 1.	4.8	0
85	Observation of nontrivial topological electronic structure of orthorhombic SnSe. Physical Review Materials, 2022, 6, .	2.4	0