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	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
2	Direct observation of the spinâ€“orbit coupling effect in magnetic Weyl semimetal Co3Sn2S2. Npj Quantum Materials, 2022, 7, .	5.2	16
3	Quantum Oscillations in Noncentrosymmetric Weyl Semimetal SmAlSi. Chinese Physics Letters, 2022, 39, 047501.	3.3	12
4	Observation of nontrivial topological electronic structure of orthorhombic SnSe. Physical Review Materials, 2022, 6, .	2.4	0
5	Observation of dimension-crossover of a tunable 1D Dirac fermion in topological semimetal NbSixTe2. Npj Quantum Materials, 2022, 7, .	5.2	7
6	Visualization of the electronic phase separation in superconducting KxFe2â^'ySe2. Nano Research, 2021, 14, 823-828.	10.4	4
7	A vacuum ultraviolet laser with a submicrometer spot for spatially resolved photoemission spectroscopy. Light: Science and Applications, 2021, 10, 22.	16.6	22
8	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. Nature Communications, 2021, 12, 2391.	12.8	92
9	Observation of the critical state to multiple-type Dirac semimetal phases in KMgBi. Journal of Applied Physics, 2021, 129, .	2.5	1
10	Electronic structure of a thermoelectric material: BiCuSO. Physical Review B, 2021, 103, .	3.2	1
11	Anomalous Hall effect in ferrimagnetic metal RMn6Sn6 (R = Tb, Dy, Ho) with clean Mn kagome lattice. Applied Physics Letters, 2021, 119, .	3.3	29
12	Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal CsV₃Sb₅. Advanced Materials, 2021, 33, e2102813.	21.0	54
13	Electronic structures of topological quantum materials studied by ARPES. Semiconductors and Semimetals, 2021, 108, 1-42.	0.7	2
14	Direct Visualization and Manipulation of Tunable Quantum Well State in Semiconducting Nb₂SiTe₄. ACS Nano, 2021, 15, 15850-15857.	14.6	2
15	Band-selective Holstein polaron in Luttinger liquid material A0.3MoO3 (Aâ€‰=â€‰K, Rb). Nature Communications, 2021, 12, 6183.	12.8	13
16	Topological phase transition in a magnetic Weyl semimetal. Physical Review B, 2021, 104, .	3.2	7
17	Pressure-induced superconductivity and structure phase transition in Pt2HgSe3. Npj Quantum Materials, 2021, 6, .	5.2	10
18	Electronic structure of correlated topological insulator candidate YbB6 studied by photoemission and quantum oscillation. Chinese Physics B, 2020, 29, 017304.	1.4	1

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19	Epitaxial growth and characterization of high quality Bi₂O₂Se thin films on SrTiO₃ substrates by pulsed laser deposition. Nanotechnology, 2020, 31, 165704.	2.6	29
20	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
21	Exploiting Twoâ€Dimensional Bi₂O₂Se for Trace Oxygen Detection. Angewandte Chemie, 2020, 132, 18094-18099.	2.0	7
22	Observation of Topological Electronic Structure in Quasi-1D Superconductor TaSe3. Matter, 2020, 3, 2055-2065.	10.0	26
23	Recent Advances in Topological Quantum Materials by Angle-Resolved Photoemission Spectroscopy. Matter, 2020, 3, 1114-1141.	10.0	22
24	Persistent surface states with diminishing gap in MnBi2Te4/Bi2Te3 superlattice antiferromagnetic topological insulator. Science Bulletin, 2020, 65, 2086-2093.	9.0	44
25	Giant, unconventional anomalous Hall effect in the metallic frustrated magnet candidate, KV ₃ Sb ₅. Science Advances, 2020, 6, eabb6003.	10.3	295
26	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
27	High-throughput calculations of magnetic topological materials. Nature, 2020, 586, 702-707.	27.8	241
28	Signature for non-Stoner ferromagnetism in the van der Waals ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi>GeT</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, 2020, 101, .	3.2	41
29	Pressure-Induced Topological and Structural Phase Transitions in an Antiferromagnetic Topological Insulator*. Chinese Physics Letters, 2020, 37, 066401.	3.3	50
30	Super resolution convolutional neural network for feature extraction in spectroscopic data. Review of Scientific Instruments, 2020, 91, 033905.	1.3	15
31	Exploiting Twoâ€Dimensional Bi₂O₂Se for Trace Oxygen Detection. Angewandte Chemie - International Edition, 2020, 59, 17938-17943.	13.8	31
32	Universal gapless Dirac cone and tunable topological states in <mml:math		

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37	Chiral topological semimetal with multifold band crossings and long Fermi arcs. Nature Physics, 2019, 15, 759-765.	16.7	184
38	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
39	Topological surface state of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>â^'</mml:mo><mml:mi>Sn</mml:mi> on InSb(001) as studied by photoemission. Physical Review B, 2018, 97, .	3.2	25
40	How to probe the spin contribution to momentum relaxation in topological insulators. Nature Communications, 2018, 9, 56.	12.8	5
41	Single crystalline electronic structure and growth mechanism of aligned square graphene sheets. APL Materials, 2018, 6, .	5.1	2
42	Folded superstructure and degeneracy-enhanced band gap in the weak-coupling charge density wave system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi><mml:mo>â^'</mml:mo><mml:m Physical Review B, 2018, 97, .	3.2	27
43	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
44	Visualizing electronic structures of quantum materials by angle-resolved photoemission spectroscopy. Nature Reviews Materials, 2018, 3, 341-353.	48.7	58
45	Quantum oscillations of electrical resistivity in an insulator. Science, 2018, 362, 65-69.	12.6	79
46	Giant anomalous Hall effect in a ferromagnetic kagome-lattice semimetal. Nature Physics, 2018, 14, 1125-1131.	16.7	876
47	Ultrafast and highly sensitive infrared photodetectors based on two-dimensional oxyselenide crystals. Nature Communications, 2018, 9, 3311.	12.8	213
48	Evolution of electronic structure and electron-phonon coupling in ultrathin tetragonal CoSe films. Physical Review Materials, 2018, 2, .	2.4	7
49	Signature of type-II Weyl semimetal phase in MoTe2. Nature Communications, 2017, 8, 13973.	12.8	358
50	Substrate Doping Effect and Unusually Large Angle van Hove Singularity Evolution in Twisted Biâ€•and Multilayer Graphene. Advanced Materials, 2017, 29, 1606741.	21.0	43
51	High electron mobility and quantum oscillations in non-encapsulated ultrathin semiconducting Bi2O2Se. Nature Nanotechnology, 2017, 12, 530-534.	31.5	507
52	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) Tj E	3.2	131
53	Revie Engineered heterostructures. Nature Materials, 2017, 16, 3-4.	27.5	16
54	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

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55	Quantum spin Hall state in monolayer 1T'-WTe2. Nature Physics, 2017, 13, 683-687.	16.7	596
56	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
57	Topological origin of the type-II Dirac fermions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>PtSe</mml:mi><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Materials, 2017, 1, .	2.4	44
58	Tuning Chemical Potential Difference across Alternately Doped Graphene pâ€“n Junctions for High-Efficiency Photodetection. Nano Letters, 2016, 16, 4094-4101.	9.1	34
59	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
60	Building Large-Domain Twisted Bilayer Graphene with van Hove Singularity. ACS Nano, 2016, 10, 6725-6730.	14.6	53
61	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
62	Selectively enhanced photocurrent generation in twisted bilayer graphene with van Hove singularity. Nature Communications, 2016, 7, 10699.	12.8	136
63	Electronic Structure, Surface Doping, and Optical Response in Epitaxial WSe₂ Thin Films. Nano Letters, 2016, 16, 2485-2491.	9.1	147
64	Evolution of the Fermi surface of Weyl semimetals in the transition metal pnictide family. Nature Materials, 2016, 15, 27-31.	27.5	245
65	Experimental observation of incoherent-coherent crossover and orbital-dependent band renormalization in iron chalcogenide superconductors. Physical Review B, 2015, 92, .	3.2	46
66	Massive Dirac Fermion Observed in Lanthanide-Doped Topological Insulator Thin Films. Scientific Reports, 2015, 5, 15767.	3.3	28
67	Growth of BiSe and BiTe on amorphous fused silica by MBE. Physica Status Solidi (B): Basic Research, 2015, 252, 1334-1338.	1.5	15
68	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></mml:mr Physical Review Letters, 2015, 114, 117201.	7.8	306
69	A new topological insulator built from quasi one-dimensional atomic ribbons. Physica Status Solidi - Rapid Research Letters, 2015, 9, 130-135.	2.4	6
70	van Hove Singularity Enhanced Photochemical Reactivity of Twisted Bilayer Graphene. Nano Letters, 2015, 15, 5585-5589.	9.1	59
71	Emergence of the nematic electronic state in FeSe. Physical Review B, 2015, 91, .	3.2	302
72	Patterning two-dimensional chalcogenide crystals of Bi2Se3 and In2Se3 and efficient photodetectors. Nature Communications, 2015, 6, 6972.	12.8	172

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73	Weyl semimetal phase in the non-centrosymmetric compound TaAs. Nature Physics, 2015, 11, 728-732.	16.7	796
74	Improving the performance of lithiumâ€“sulfur batteries using conductive polymer and micrometric sulfur powder. Journal of Materials Research, 2014, 29, 1027-1033.	2.6	40
75	A stable three-dimensional topological Dirac semimetal Cd3As2. Nature Materials, 2014, 13, 677-681.	27.5	1,242
76	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
77	Discovery of a Three-Dimensional Topological Dirac Semimetal, Na ₃ Bi. Science, 2014, 343, 864-867.	12.6	1,889
78	Discovery of a single topological Dirac fermion in the strong inversion asymmetric compound BiTeCl. Nature Physics, 2013, 9, 704-708.	16.7	72
79	Observing electronic structures on exâ€situ grown topological insulator thin films. Physica Status Solidi - Rapid Research Letters, 2013, 7, 130-132.	2.4	10
80	Studies on the electronic structures of three-dimensional topological insulators by angle resolved photoemission spectroscopy. Frontiers of Physics, 2012, 7, 175-192.	5.0	32
81	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
82	Massive Dirac Fermion on the Surface of a Magnetically Doped Topological Insulator. Science, 2010, 329, 659-662.	12.6	1,051
83	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
84	Experimental Realization of a Three-Dimensional Topological Insulator, Bi ₂ Te ₃. Science, 2009, 325, 178-181.	12.6	3,095
85	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