

Chuang-Han Hsu

List of Publications by Year in descending order

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52
papers

5,059
citations

201674

27
h-index

182427

51
g-index

55
all docs

55
docs citations

55
times ranked

7025
citing authors

#	ARTICLE	IF	CITATIONS
1	A library of atomically thin metal chalcogenides. Nature, 2018, 556, 355-359.	27.8	1,225
2	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. Nature Communications, 2016, 7, 10735.	12.8	603
3	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. Nature, 2019, 565, 337-342.	27.8	372
4	Experimental discovery of a topological Weyl semimetal state in TaP. Science Advances, 2015, 1, e1501092.	10.3	337
5	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. Advanced Materials, 2017, 29, 1602969.	21.0	251
6	Large-Area and High-Quality 2D Transition Metal Telluride. Advanced Materials, 2017, 29, 1603471.	21.0	181
7	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. Science Advances, 2017, 3, e1603266.	10.3	176
8	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler Co ₂ TiX (X=Si, Ge, or Sn). Scientific Reports, 2016, 6, 38839.	3.3	148
9	Type-II Symmetry-Protected Topological Dirac Semimetals. Physical Review Letters, 2017, 119, 026404. Magnetic and noncentrosymmetric Weyl fermion semimetals in the $R\bar{1}c$ structure	7.8	145
10			

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19	Topology on a new facet of bismuth. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13255-13259.	7.1	61
20	Stable charge density wave phase in a WTe_2 monolayer. Physical Review B, 2017, 95, .	3.2	56
21	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. Physical Review Letters, 2016, 116, 066601.	7.8	54
22	Quantum frequency doubling in the topological insulator Bi ₂ Se ₃ . Nature Communications, 2021, 12, 698.	12.8	48
23	Purely rotational symmetry-protected topological crystalline insulator Bi_4Br_4 . 2D Materials, 2019, 6, 031004.	4.4	41
24	Spin-Orbit Torque Magnetization Switching in MoTe_2 /Permalloy Heterostructures. Advanced Materials, 2020, 32, e2002799.	21.0	40
25	Nonlinear magnetotransport shaped by Fermi surface topology and convexity. Nature Communications, 2019, 10, 1290.	12.8	38
26	Canted Persistent Spin Texture and Quantum Spin Hall Effect in WTe_2 . Physical Review Letters, 2020, 125, 256603.	7.8	38
27	Room-Temperature Nanoseconds Spin Relaxation in WTe_2 and MoTe_2 Thin Films. Advanced Science, 2018, 5, 1700912.	11.2	34
28	Topological crystalline insulator states in the $\text{Ca}_2\text{Mn}_2\text{S}_2$ family. Physical Review B, 2018, 98, .	3.2	28
29	Spin-Dependent Molecule Symmetry at a Pentacene-Co Spinterface. ACS Nano, 2015, 9, 7027-7032.	14.6	23
30	Observation of the Out-of-Plane Polarized Spin Current from CVD Grown WTe_2 . Advanced Quantum Technologies, 2021, 4, 2100038.	3.9	23
31	The electronic structure of organic-inorganic hybrid perovskite solar cell: A first-principles analysis. Computational Materials Science, 2016, 117, 573-578.	3.0	22
32	Two-dimensional Topological Crystalline Insulator Phase in Sb/Bi Planar Honeycomb with Tunable Dirac Gap. Scientific Reports, 2016, 6, 18993.	3.3	21
33	Spin-Polarized Transport through Single Manganese Phthalocyanine Molecules on a Co Nanoisland. Journal of Physical Chemistry C, 2015, 119, 3374-3378.	3.1	20
34	Few-layer $\text{1T}'\text{MoTe}_2$ as gapless semimetal with thickness dependent carrier transport. 2D Materials, 2018, 5, 031010.	4.4	14
35	Topological superconductor in quasi-one-dimensional Ti_2Mn_2 . Physical Review B, 2018, 97, .	3.2	12
36	Low-symmetry topological materials for large charge-to-spin interconversion: The case of transition metal dichalcogenide monolayers. Physical Review Research, 2021, 3, .	3.6	11

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37	In situ magnetization switching of magnetic probes applied to spin-polarized scanning tunneling microscopy. Applied Physics Letters, 2010, 96, 142515.	3.3	10
38	Charge Density Waves and the Hidden Nesting of Purple Bronze K _{0.9} Mo ₆ O ₁₇ . Physical Review Letters, 2017, 118, 257601.	7.8	10
39	Manipulated nucleation of Fe nanostructures on Au(111) with combined growth methods. Nanotechnology, 2010, 21, 015606.	2.6	9
40	Chiral p-wave superconductivity in Sb(111) thin films close to Van Hove singularities. Physical Review B, 2016, 93, .	3.2	9
41	Bond-breaking induced Lifshitz transition in robust Dirac semimetal VAl ₃ . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15517-15523.	7.1	8
42	Aspects of symmetry and topology in the charge density wave phase of 1Tâ€TiSe ₂ . New Journal of Physics, 2021, 23, 083037.	2.9	7
43	Topological Semimetals for Scaled Back-End-Of-Line Interconnect Beyond Cu. , 2020, , .		7
44	Nonreciprocal Transport in a Bilayer of MnBi ₂ Te ₄ and Pt. Nano Letters, 2022, 22, 1366-1373.	9.1	7
45	Nucleation of Fe nanoparticle chains and nanostripes on Au(111) stepped surface. Journal of Applied Physics, 2010, 107, 014301.	2.5	5
46	Effects of interlayer interaction in van der Waals layered black phosphorus for sub-10 nm FET. , 2015, , .		5
47	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.	3.0	5
48	Reply to: Detectivities of WS ₂ /HfS ₂ heterojunctions. Nature Nanotechnology, 2022, 17, 220-221.	31.5	5
49	Novel family of topological semimetals with butterflylike nodal lines. Physical Review B, 2021, 104, .	3.2	4
50	Topological theory of inversion-breaking charge-density-wave monolayer 1T-TiSe ₂ . New Journal of Physics, 2021, 23, 093025.	2.9	3
51	Glide symmetry protected higher-order topological insulators from semimetals with butterfly-like nodal lines. Npj Computational Materials, 2021, 7, .	8.7	3
52	Dimensionality-dependent type-II Weyl semimetal state in $\text{Mo}_{0.25}\text{W}_{0.75}\text{Te}_2$. Physical Review B, 2021, 104, .		3