

# Jiun-Haw Chu

## List of Publications by Year in descending order

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109  
papers

15,092  
citations

34105

52  
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25787

108  
g-index

109  
all docs

109  
docs citations

109  
times ranked

12206  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible strain-induced magnetic phase transition in a van der Waals magnet. Nature Nanotechnology, 2022, 17, 256-261.	31.5	93
2	Correlation-driven electronic reconstruction in $\text{FeTe}_{1-x}\text{Se}_x$ . Communications Physics, 2022, 5, .	5.3	17
3	Quantitative relationship between structural orthorhombicity, shear modulus, and heat capacity anomaly of the nematic transition in iron-based superconductors. Physical Review B, 2022, 105, .	3.2	0
4	Observation of the non-linear Meissner effect. Nature Communications, 2022, 13, 1201.	12.8	1
5	Electric control of a canted-antiferromagnetic Chern insulator. Nature Communications, 2022, 13, 1668.	12.8	37
6	Evidence for equilibrium exciton condensation in monolayer $\text{WTe}_2$ . Nature Physics, 2022, 18, 94-99.	16.7	55
7	Bismuth Doping Alters Structural Phase Transitions in Methylammonium Lead Tribromide Single Crystals. Journal of Physical Chemistry Letters, 2021, 12, 2749-2755.	4.6	14
8	Intertwined Topological and Magnetic Orders in Atomically Thin Chern Insulator $\text{MnBi}_2\text{Te}_4$ . Nano Letters, 2021, 21, 2544-2550.	9.1	92
9	Highly anisotropic excitons and multiple phonon bound states in a van der Waals antiferromagnetic insulator. Nature Nanotechnology, 2021, 16, 655-660.	31.5	72
10	Quantum oscillations in the field-induced ferromagnetic state of $\text{MnBi}_2\text{Te}_4$ . Physical Review B, 2021, 103, .	31.5	72
11	The transport-structural correspondence across the nematic phase transition probed by elasto X-ray diffraction. Nature Materials, 2021, 20, 1519-1524.	27.5	16
12	Observation of Giant Optical Linear Dichroism in a Zigzag Antiferromagnet $\text{FePS}_3$ . Nano Letters, 2021, 21, 6938-6945.	9.1	37
13	Strongly anisotropic antiferromagnetic coupling in $\text{EuFe}_2\text{As}_2$ revealed by stress detwinning. Physical Review B, 2021, 104, .	8.9	17
14	Magnetism and Its Structural Coupling Effects in 2D Ising Ferromagnetic Insulator $\text{Vl}_3$ . Nano Letters, 2021, 21, 9180-9186.	9.1	28
15	Determination of the Spin Axis in Quantum Spin Hall Insulator Candidate Monolayer $\text{WTe}_2$ . Physical Review X, 2021, 11, .	8.9	17
16	Comprehensive Electrical Control of Metamagnetic Transition of a Quasi-2D Antiferromagnet by In Situ Anisotropic Strain. Advanced Materials, 2020, 32, e2002451.	21.0	10
17	Superconductivity in metallic twisted bilayer graphene stabilized by $\text{WSe}_2$ . Nature, 2020, 583, 379-384.	27.8	225
18	Suppression of superconductivity by anisotropic strain near a nematic quantum critical point. Nature Physics, 2020, 16, 1189-1193.	16.7	39

#	ARTICLE	IF	CITATIONS
19	Signature for non-Stoner ferromagnetism in the van der Waals ferromagnet $F_x\text{GeTe}_3$ . Physical Review B, 2020, 101, .	3.2	41
20	Magnetic proximity and nonreciprocal current switching in a monolayer $\text{WTe}_2$ helical edge. Nature Materials, 2020, 19, 503-507.	27.5	53
21	Two-Dimensional van der Waals Nanoplatelets with Robust Ferromagnetism. Nano Letters, 2020, 20, 2100-2106.	9.1	19
22	Apparatus design for measuring of the strain dependence of the Seebeck coefficient of single crystals. Review of Scientific Instruments, 2020, 91, 023902.	1.3	1
23	Evidence for a strain-tuned topological phase transition in $\text{ZrTe}_5$ . Science Advances, 2019, 5, eaav9771.	10.3	90
24	Switching 2D magnetic states via pressure tuning of layer stacking. Nature Materials, 2019, 18, 1298-1302.	27.5	358
25	Optical anisotropy in optimally doped iron-based superconductor. Npj Quantum Materials, 2019, 4, .	5.2	5
26	Divergence of the quadrupole-strain susceptibility of the electronic nematic system $\text{YbRu}_2\text{Ge}_2$ . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7232-7237.	7.1	33
27	Epitaxial stabilization of $\text{Sr}_3\text{Ir}_2\text{O}_7$ thin films. Applied Physics Letters, 2019, 114, .	3.3	2
28	Possible scale invariant linear magnetoresistance in pyrochlore iridates $\text{Bi}_2\text{Ir}_2\text{O}_7$ . New Journal of Physics, 2019, 21, 113041.	2.9	8
29	Anomalous magnetoresistance due to longitudinal spin fluctuations in a Jeffâ€™s $1/2$ Mott semiconductor. Nature Communications, 2019, 10, 5301.	12.8	12
30	Interplay of lattice, electronic, and spin degrees of freedom in detwinned $\text{BaFe}_2\text{As}_2$ : A Raman scattering study. Physical Review B, 2018, 98, .	3.2	15
31	Two-dimensional itinerant ferromagnetism in atomically thin $\text{Fe}_3\text{GeTe}_2$ . Nature Materials, 2018, 17, 778-782.	27.5	995
32	Superconductivity and fluctuations in $\text{BaKFe}_2\text{As}_2$ and $\text{Ba}(\text{Fe}_x\text{Co}_{1-x})_2\text{As}_2$ . Physica Status Solidi (B): Basic Research, 2017, 254, 1600308.	1.5	9
33	Critical divergence of the symmetric $T_j$ . Physical Review B, 2017, 96, .	3.2	20
34	Scaling of the Stress and Temperature Dependence of the Optical Anisotropy in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ . Journal of Superconductivity and Novel Magnetism, 2016, 29, 3053-3057.	1.8	1
35	Ubiquitous signatures of nematic quantum criticality in optimally doped Fe-based superconductors. Science, 2016, 352, 958-962.	12.6	239
36	Ultrafast resonant soft x-ray diffraction dynamics of the charge density wave in $\text{TbTe}_3$ . Physical Review B, 2016, 93, .	3.2	27

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37	Electrodynamical response in the electronic nematic phase of $\text{BaFe}_2\text{As}_2$ Physical Review B, 2016, 93, .		
38	NMR Evidence for Inhomogeneous Nematic Fluctuations in $\text{BaFe}_2\text{As}_2$ Physical Review B, 2016, 93, .		

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55	Epitaxy-distorted spin-orbit Mott insulator in Sr <sub>2</sub> IrO <sub>4</sub> . Physical Review B, 2013, 87, .	3.2	70
56	Alternative route to charge density wave formation in multiband systems. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 64-69.	7.1	86
57	Susceptibility Anisotropy in an Iron Arsenide Superconductor Revealed by X-Ray Diffraction in Pulsed Magnetic Fields. Physical Review Letters, 2012, 109, 027004.	7.8	24
58	Doping dependence of femtosecond quasiparticle relaxation dynamics in Ba(Fe,Co)2As2 single crystals: Evidence for normal-state nematic fluctuations. Physical Review B, 2012, 86, .	3.2	44
59	STM Imaging of Impurity Resonances on Bi <sub>2</sub> Se <sub>3</sub> . Physical Review Letters, 2012, 108, 206402.	7.8	18
60	Resonant enhancement of charge density wave diffraction in the rare-earth tritellurides. Physical Review B, 2012, 85, .	3.2	11
61	Divergent Nematic Susceptibility in an Iron Arsenide Superconductor. Science, 2012, 337, 710-712.	12.6	452
62	Magnetoelastically coupled structural, magnetic, and superconducting order parameters in BaFe <sub>2</sub>		

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73	Temperature dependence of the excitation spectrum in the charge-density-wave $\text{ErTe}_3$ and $\text{HoTe}_3$ systems. <i>Physical Review B</i> , 2010, 81, . Enhanced Fermi-Surface Nesting in Superconducting $\text{BaFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2010, 81, .	3.2	23
74	Physical surface evolution across multiple charge density wave transitions in $\text{ErTe}$ . <i>Physical Review B</i> , 2010, 81, .	3.2	73
75	Raman scattering evidence for a cascade evolution of the charge-density-wave collective amplitude mode. <i>Physical Review B</i> , 2010, 81, .	3.2	42
76	In-plane electronic anisotropy in underdoped $\text{BaFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2010, 81, .	3.2	72
77	Fermi surface evolution across multiple charge density wave transitions in $\text{ErTe}$ . <i>Physical Review B</i> , 2010, 81, .	3.2	73
78	Pinpointing gap minima in $\text{BaFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2010, 82, .	3.2	53
79	Bulk electronic structure of optimally doped $\text{BaFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2010, 81, .	3.2	29
80	Bulk Fermi surface coexistence with Dirac surface state in $\text{Bi}_2\text{Te}_3$ . A comparison of photoemission and Shubnikov-de Haas measurements. <i>Physical Review B</i> , 2010, 81, .	3.2	425
81	Massive Dirac Fermion on the Surface of a Magnetically Doped Topological Insulator. <i>Science</i> , 2010, 329, 659-662.	12.6	1,051
82	Single Dirac Cone Topological Surface State and Unusual Thermoelectric Property of Compounds from a New Topological Insulator Family. <i>Physical Review Letters</i> , 2010, 105, 266401.	7.8	195
83	Dispersive spin fluctuations in the nearly optimally doped superconductor $\text{BaFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2010, 81, .	3.2	81
84	In-Plane Resistivity Anisotropy in an Underdoped Iron Arsenide Superconductor. <i>Science</i> , 2010, 329, 824-826.	12.6	690
85	Quantum oscillations in the parent pnictide $\text{BaFe}_2\text{As}_2$ . Itinerant electrons in the reconstructed state. <i>Physical Review B</i> , 2009, 80, .	3.2	93
86	Pressure dependence of the single particle excitation in the charge-density-wave $\text{CeTe}$ . <i>Physical Review B</i> , 2009, 79, .	3.2	13
87	Unconventional electronic reconstruction in undoped $\text{BaFe}_2\text{As}_2$ the spin density wave transition. <i>Physical Review B</i> , 2009, 80, .	3.2	134
88	Band- and momentum-dependent electron dynamics in superconducting $\text{BaFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2009, 80, .	3.2	79
89	Electronic structure of the $\text{BaFe}_2\text{As}_2$ of iron-pnictide superconductors. <i>Physical Review B</i> , 2009, 80, .	3.2	116
90	Pressure-Induced Superconducting Phase in the Charge-Density-Wave Compound Terbium Tritelluride. <i>Physical Review Letters</i> , 2009, 102, 177002.	7.8	63

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91	Pressure-induced quenching of the charge-density-wave state in rare-earth tritellurides observed by x-ray diffraction. <i>Physical Review B</i> , 2009, 79, .	3.2	30
92	Evidence for a Nodal-Line Superconducting State in LaFePO. <i>Physical Review Letters</i> , 2009, 102, 147001.	7.8	197
93	Evidence for a Nodal Energy Gap in the Iron-Pnictide Superconductor LaFePO from Penetration Depth Measurements by Scanning SQUID Susceptometry. <i>Physical Review Letters</i> , 2009, 103, 127003.	7.8	115
94	Optical properties of the charge-density-wave rare-earth tri-telluride compounds: A view on. <i>Physica B: Condensed Matter</i> , 2009, 404, 533-536.	2.7	5
95	ARPES studies of the electronic structure of LaOFe(P,As). <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 452-458.	1.2	67
96	Quantum oscillation studies of the Fermi surface of LaFePO. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 459-468.	1.2	24
97	Charge dynamics of the spin-density-wave state in BaFe <sub>2</sub> As <sub>2</sub> . <i>European Physical Journal B</i> , 2009, 67, 513-517.	1.5	23
98	Evidence for weak electronic correlations in iron pnictides. <i>Physical Review B</i> , 2009, 80, .	3.2	176
99	Determination of the phase diagram of the electron-doped superconductor $Ba_{1-x}Fe_xAs_2$ . <i>Physical Review B</i> , 2009, 79, .	3.2	469
100	Enhanced superconducting pairing interaction in indium-doped tin telluride. <i>Physical Review B</i> , 2009, 79, .	3.2	96
101	Neutron scattering study of the interplay between structure and magnetism in $Ba_{1-x}Fe_xAs_2$ . <i>Physical Review B</i> , 2009, 79, .	3.2	170
102	New correlated electron physics from new materials. <i>Physica B: Condensed Matter</i> , 2009, 404, 2924-2929.	2.7	17
103	Experimental Realization of a Three-Dimensional Topological Insulator, Bi <sub>2</sub> Te <sub>3</sub> . <i>Science</i> , 2009, 325, 178-181.	12.6	3,095
104	Electronic structure of the iron-based superconductor LaOFeP. <i>Nature</i> , 2008, 455, 81-84.	27.8	279
105	Fermi Surface of Superconducting LaFePO Determined from Quantum Oscillations. <i>Physical Review Letters</i> , 2008, 101, 216402.	7.8	182
106	Transient Electronic Structure and Melting of a Charge Density Wave in TbTe <sub>3</sub> . <i>Science</i> , 2008, 321, 1649-1652.	12.6	417
107	Single-Particle and Collective Mode Couplings Associated with 1- and 2-Directional Electronic Ordering in Metallic $R_xTe_{3-x}$ . <i>Physical Review Letters</i> , 2008, 101, 246402.	7.8	82
108	Evidence for coupling between charge density waves and phonons in two-dimensional rare-earth tritellurides. <i>Physical Review B</i> , 2008, 78, .	3.2	43

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109	Optics of embedded semiconductor nano-objects using a hybrid model: bare versus dressed polarizabilities. European Physical Journal B, 2006, 54, 225-241.	1.5	6