

Jiun-Haw Chu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/584878/publications.pdf>

Version: 2024-02-01

109
papers

15,092
citations

34105

52
h-index

25787

108
g-index

109
all docs

109
docs citations

109
times ranked

12206
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Realization of a Three-Dimensional Topological Insulator, Bi_2Te_3 . Science, 2009, 325, 178-181.	12.6	3,095
2	Massive Dirac Fermion on the Surface of a Magnetically Doped Topological Insulator. Science, 2010, 329, 659-662.	12.6	1,051
3	Two-dimensional itinerant ferromagnetism in atomically thin Fe_3GeTe_2 . Nature Materials, 2018, 17, 778-782.	27.5	995
4	In-Plane Resistivity Anisotropy in an Underdoped Iron Arsenide Superconductor. Science, 2010, 329, 824-826.	12.6	690
5	Room-temperature antiferromagnetic memory resistor. Nature Materials, 2014, 13, 367-374.	27.5	546
6	Two-dimensional surface state in the quantum limit of a topological insulator. Nature Physics, 2010, 6, 960-964.	16.7	521
7	Determination of the phase diagram of the electron-doped superconductor $\text{Ba}_{1-x}\text{Co}_x$. Physical Review B, 2009, 79, ...	3.2	469
8	Symmetry-breaking orbital anisotropy observed for detwinned $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)\text{Tl}$. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6878-6883.	7.1	464
9	Divergent Nematic Susceptibility in an Iron Arsenide Superconductor. Science, 2012, 337, 710-712.	12.6	452
10	Bulk Fermi surface coexistence with Dirac surface state in Bi_2Te_3 . A comparison of photoemission and Shubnikov-de Haas measurements. Physical Review B, 2010, 81, ...	3.2	425
11	Transient Electronic Structure and Melting of a Charge Density Wave in TbTe_3 . Science, 2008, 321, 1649-1652.	12.6	417
12	Switching 2D magnetic states via pressure tuning of layer stacking. Nature Materials, 2019, 18, 1298-1302.	27.5	358
13	Electronic structure of the iron-based superconductor LaOFeP . Nature, 2008, 455, 81-84.	27.8	279
14	Ubiquitous signatures of nematic quantum criticality in optimally doped Fe-based superconductors. Science, 2016, 352, 958-962.	12.6	239
15	Superconductivity in metallic twisted bilayer graphene stabilized by WSe_2 . Nature, 2020, 583, 379-384.	27.8	225
16	Evidence for a Nodal-Line Superconducting State in LaFePO . Physical Review Letters, 2009, 102, 147001.	7.8	197
17	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
18	Coherent dynamics of macroscopic electronic order through a symmetry breaking transition. Nature Physics, 2010, 6, 681-684.	16.7	189

#	ARTICLE	IF	CITATIONS
19	Fermi Surface of Superconducting LaFePO Determined from Quantum Oscillations. Physical Review Letters, 2008, 101, 216402.	7.8	182

20 Observation of Temperature-Induced Crossover to an Orbital-Selective Mott Phase in $A_xFe_{2-x}As_2$

#	ARTICLE	IF	CITATIONS
37	Single-Particle and Collective Mode Couplings Associated with 1- and 2-Directional Electronic Ordering in Metallic $R\text{Te}_3$. Physical Review B, 2010, 81, .	7.8	82
38	Dispersive spin fluctuations in the nearly optimally doped superconductor $\text{Ba}(\text{Fe},\text{Co})_2\text{As}_2$. Physical Review B, 2010, 81, .	3.2	81
39	Band- and momentum-dependent electron dynamics in superconducting $\text{Ba}(\text{Fe},\text{Co})_2\text{As}_2$. Physical Review B, 2009, 80, .	3.2	79
40	Fermi surface evolution across multiple charge density wave transitions in ErTe . Physical Review B, 2010, 81, .	3.2	73
41	In-plane electronic anisotropy in underdoped $\text{Ba}(\text{Fe},\text{Co})_2\text{As}_2$. Physical Review B, 2010, 81, .	3.2	72
42	Highly anisotropic excitons and multiple phonon bound states in a van der Waals antiferromagnetic insulator. Nature Nanotechnology, 2021, 16, 655-660.	31.5	72
43	Epitaxy-distorted spin-orbit Mott insulator in SrIrO_4 . Physical Review B, 2012, 87, .	3.2	70
44	ARPES studies of the electronic structure of $\text{LaOFe}(\text{P},\text{As})$. Physica C: Superconductivity and Its Applications, 2009, 469, 452-458.	1.2	67
45	Critical spin fluctuations and the origin of nematic order in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Nature Physics, 2016, 12, 560-563.	16.7	67
46	Pressure-Induced Superconducting Phase in the Charge-Density-Wave Compound Terbium Tritelluride. Physical Review Letters, 2009, 102, 177002.	7.8	63
47	Pressure dependence of the charge-density-wave and superconducting states in GdTe_3 and DyTe_3 . Physical Review B, 2010, 81, .	3.2	63
48	Enhanced Fermi-Surface Nesting in Superconducting BaFe_2As_2 . Physical Review B, 2010, 81, .	3.2	60
49	Persistent order due to transiently enhanced nesting in an electronically excited charge density wave. Nature Communications, 2016, 7, 10459.	12.8	56
50	Evidence for equilibrium exciton condensation in monolayer WTe_2 . Nature Physics, 2022, 18, 94-99.	16.7	55
51	Pinpointing gap minima in $\text{Ba}(\text{Fe},\text{Co})_2\text{As}_2$. Physical Review B, 2010, 82, .	3.2	53
52	Magnetic proximity and nonreciprocal current switching in a monolayer WTe_2 helical edge. Nature Materials, 2020, 19, 503-507.	27.5	53
53	Doping dependence of femtosecond quasiparticle relaxation dynamics in $\text{Ba}(\text{Fe},\text{Co})_2\text{As}_2$ single crystals: Evidence for normal-state nematic fluctuations. Physical Review B, 2012, 86, .	3.2	44
54	Evidence for coupling between charge density waves and phonons in two-dimensional rare-earth tritellurides. Physical Review B, 2008, 78, .	3.2	43

#	ARTICLE	IF	CITATIONS
55	Raman scattering evidence for a cascade evolution of the charge-density-wave collective amplitude mode. <i>Physical Review B</i> , 2010, 81, . Signature for non-Stoner ferromagnetism in the van der Waals ferromagnet <math xmlns:mml="http://www.w3.org/1998/Math/MathML" ><mml:mrow><mml:mi>F</mml:mi><mml:msub><mml:mi>e</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>	3.2	42
56	Suppression of superconductivity by anisotropic strain near a nematic quantum critical point. <i>Nature Physics</i> , 2020, 16, 1189-1193.	3.2	41
57	Observation of Giant Optical Linear Dichroism in a Zigzag Antiferromagnet FePS ₃ . <i>Nano Letters</i> , 2021, 21, 6938-6945.	16.7	39
58	Electric control of a canted-antiferromagnetic Chern insulator. <i>Nature Communications</i> , 2022, 13, 1668.	9.1	37
59	STM imaging of a bound state along a step on the surface of the topological insulator Bi<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" ><mml:mrow><mml:msub><mml:mrow>/></mml:msub></mml:mrow></mml:math>Te<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" ><mml:mrow><mml:msub><mml:mrow>/></mml:msub></mml:mrow></mml:math>	12.8	37
60	Origin of the Resistive Anisotropy in the Electronic Nematic Phase of<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" ><mml:mrow><mml:msub><mml:mrow>/></mml:msub></mml:mrow></mml:math>BaFe<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" ><mml:mrow><mml:msub><mml:mrow>/></mml:msub></mml:mrow></mml:math>	3.2	36
61	NMR Evidence for Inhomogeneous Nematic Fluctuations in<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" ><mml:mrow><mml:msub><mml:mrow>/></mml:msub></mml:mrow></mml:math>BaFe<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" ><mml:mrow><mml:msub><mml:mrow>/></mml:msub></mml:mrow></mml:math>	7.8	36
62			

#	ARTICLE	IF	CITATIONS
73	Hysteretic behavior in the optical response of the underdoped Fe-arsenide $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ in the electronic nematic phase. <i>Physical Review B</i> , 2014, 89, .	3.2	22
74	Critical divergence of the symmetric ($T_{\text{ETQ}} = 0$) of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2017, 96, .	3.2	20
75	Coherent dynamics of the charge density wave gap in tritellurides. <i>Faraday Discussions</i> , 2014, 171, 299-310.	3.2	19
76	Nematic-driven anisotropic electronic properties of underdoped detwinned $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2014, 90, .	3.2	19
77	Measurement of the B_{1g} and B_{2g} components of the elastoresistivity tensor for tetragonal materials via transverse resistivity configurations. <i>Review of Scientific Instruments</i> , 2016, 87, 063902.	1.3	19
78	Two-Dimensional van der Waals Nanoplatelets with Robust Ferromagnetism. <i>Nano Letters</i> , 2020, 20, 2100-2106.	9.1	19
79	New correlated electron physics from new materials. <i>Physica B: Condensed Matter</i> , 2009, 404, 2924-2929.	2.7	17
80	Determination of the Spin Axis in Quantum Spin Hall Insulator Candidate Monolayer WTe_2 . <i>Physical Review X</i> , 2021, 11, .	8.9	17
81	Correlation-driven electronic reconstruction in $\text{FeTe}_{1-x}\text{Se}_x$. <i>Communications Physics</i> , 2022, 5, .	5.3	17
82	The transport-structural correspondence across the nematic phase transition probed by elasto X-ray diffraction. <i>Nature Materials</i> , 2021, 20, 1519-1524.	27.5	16
83	Spectrally resolved femtosecond reflectivity relaxation dynamics in undoped spin-density wave 122-structure iron-based pnictides. <i>Physical Review B</i> , 2014, 89, .	3.2	15
84	Interplay of lattice, electronic, and spin degrees of freedom in detwinned $\text{BaFe}_{1-x}\text{Co}_x\text{As}_2$: A Raman scattering study. <i>Physical Review B</i> , 2018, 98, .	3.2	15
85	Quantum oscillations in the field-induced ferromagnetic state of MnBi_2 . <i>Physical Review B</i> , 2021, 103, .	3.2	15
86	Bismuth Doping Alters Structural Phase Transitions in Methylammonium Lead Tribromide Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2749-2755.	4.6	14
87	Pressure dependence of the single particle excitation in the charge-density-wave CeTe . <i>Physical Review B</i> , 2019, 100, 040407.	3.2	13
88	Dynamic order-parameter oscillations and lattice coupling in strongly driven TaS_2 . <i>Physical Review B</i> , 2019, 100, 040407.	3.2	13
89	Electrodynamics response in the electronic nematic phase of $\text{BaFe}_{1-x}\text{Co}_x\text{As}_2$. <i>Physical Review B</i> , 2016, 93, .	3.2	12
90	Anomalous magnetoresistance due to longitudinal spin fluctuations in a $J_{\text{eff}} = 1/2$ Mott semiconductor. <i>Nature Communications</i> , 2019, 10, 5301.	12.8	12

#	ARTICLE	IF	CITATIONS
91	Resonant enhancement of charge density wave diffraction in the rare-earth tritellurides. Physical Review B, 2012, 85, .	3.2	11
92	Comprehensive Electrical Control of Metamagnetic Transition of a Quasi-2D Antiferromagnet by In Situ Anisotropic Strain. Advanced Materials, 2020, 32, e2002451.	21.0	10
93	Superconductivity and fluctuations in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ and $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Physica Status Solidi (B): Basic Research, 2017, 254, 1600308.	1.5	9
94	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
95	Polarized neutron diffraction study of the field-induced magnetization in the normal and superconducting states of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ ($x=0.65$). Physical Review B, 2011, 84, .	3.2	7
96	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
97	Optical properties of the charge-density-wave rare-earth tri-telluride compounds: A view on. Physica B: Condensed Matter, 2009, 404, 533-536.	2.7	5
98	Optical anisotropy in optimally doped iron-based superconductor. Npj Quantum Materials, 2019, 4, .	5.2	5
99	Strongly anisotropic antiferromagnetic coupling in EuFe_2As_2 revealed by stress detwinning. Physical Review B, 2021, 104, .	3.2	4
100	Magnetoresistance oscillations in topological insulator Bi_2Te_3 nanoscale antidot arrays. Nanotechnology, 2015, 26, 265301.	2.6	3
101	Epitaxial stabilization of SrIr_2O_7 thin films. Applied Physics Letters, 2019, 114, .	3.3	2
102	Infrared and Raman investigation of the charge-density-wave state in rare-earth tri-telluride compounds. Physica B: Condensed Matter, 2012, 407, 1864-1867.	2.7	1
103	Distribution of Optical Spectral Weight in Detwinned $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2603-2606.	1.8	1
104	Monotonic Doping-Dependence in the Anisotropy of the Drude Weight and Scattering Rate of Detwinned $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ Established from the Optical Conductivity. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1261-1266.	1.8	1
105	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
106	Dichroism in the Parent Ferropnictide BaFe_2As_2 Across the Nematic Phase Transition. Journal of Superconductivity and Novel Magnetism, 2016, 29, 667-672.	1.8	1
107	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
108	Observation of the non-linear Meissner effect. Nature Communications, 2022, 13, 1201.	12.8	1

#	ARTICLE	IF	CITATIONS
109	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