

# Jun Zhao

## List of Publications by Year in descending order

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77  
papers

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156536

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docs citations

78  
times ranked

4499  
citing authors

#	ARTICLE	IF	CITATIONS
1	Field-tuned quantum effects in a triangular-lattice Ising magnet. Science Bulletin, 2022, 67, 38-44.	4.3	5
2	Uniaxial pressure induced stripe order rotation in La <sub>1.88</sub> Sr <sub>0.12</sub> CuO <sub>4</sub> . Nature Communications, 2022, 13, 1795.	5.8	12
3	Antinodal kink in the band dispersion of electron-doped cuprate La <sub>2-x</sub> Ce <sub>x</sub> CuO <sub>4</sub> . Npj Quantum Materials, 2022, 7, .	1.8	2
4	Unusual Band Splitting and Superconducting Gap Evolution with Sulfur Substitution in FeSe. Chinese Physics Letters, 2022, 39, 057302.	1.3	3
5	Editorial: High-Tc Superconductivity in Electron-Doped Iron Selenide and Related Compounds. Frontiers in Physics, 2022, 10, .	1.0	1
6	Anomalous Contribution to the Nematic Electronic States from the Structural Transition in FeSe Revealed by Time- and Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2022, 128, .	2.9	7
7	Observation of robust edge superconductivity in Fe(Se,Te) under strong magnetic perturbation. Science Bulletin, 2021, 66, 425-432.	4.3	9
8	Observation of an electronic order along [110] direction in FeSe. Nature Communications, 2021, 12, 1385.	5.8	3
9	Quantum phase transitions in a quasi-one-dimensional Ising quantum magnet in transverse fields. Physical Review B, 2021, 103, .	1.1	3
10	Evolution of spin excitations from bulk to monolayer FeSe. Nature Communications, 2021, 12, 3122.	5.8	29
11	Critical Role of Sc Substitution in Modulating Ferroelectricity in Multiferroic LuFeO <sub>3</sub> . Nano Letters, 2021, 21, 6648-6655.	4.5	8
12	Survival of itinerant excitations and quantum spin state transitions in YbMgGaO <sub>4</sub> with chemical disorder. Nature Communications, 2021, 12, 4949.	5.8	20
13	Polarized neutron scattering studies of magnetic excitations in iron-selenide superconductor Li <sub>0.8</sub> Fe <sub>0.2</sub> ODFeSe (T <sub>c</sub> = 41ÅK). Journal of Physics Condensed Matter, 2021, 33, 45LT01.	0.7	0
14	Neutron Scattering Studies of the Breathing Pyrochlore Antiferromagnet $\text{LiGaCrO}_8$ . Physical Review Letters, 2021, 127, 147205.	2.9	9
15	Field-tuned magnetic structure and phase diagram of the honeycomb magnet YbCl <sub>3</sub> . Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	6
16	Neutron Spin Resonance in the Heavily Hole-Doped $\text{KFe}_2\text{As}_2$ Superconductor. Physical Review Letters, 2020, 124, 017001.	2.9	9
17	High-Temperature Charge-Stripe Correlations in $\text{La}_{1.675}\text{FeAsO}$ . Physical Review Letters, 2020, 124, 187002.	2.9	16
18	Approaching itinerant magnetic quantum criticality through a Hund's coupling induced electronic crossover in the $\text{YFe}_2\text{As}_2$ superconductor. Physical Review B, 2020, 101, .	1.1	4

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19	Anomalous helimagnetic domain shrinkage due to the weakening of the Dzyaloshinskii-Moriya interaction in CrAs. Physical Review B, 2020, 102, .	1.1	3
20	Quantitative characterization of short-range orthorhombic fluctuations in FeSe through pair distribution function analysis. Physical Review B, 2019, 100, .	1.1	21
21	Intertwined dipolar and multipolar order in the triangular-lattice magnet TmMgGaO <sub>4</sub> . Nature Communications, 2019, 10, 4530.	5.8	44
22	Study of intrinsic defect states of FeSe with scanning tunneling microscopy. Physical Review B, 2019, 100, .	1.1	7
23	Intertwined Spin and Orbital Density Waves in MnP Uncovered by Resonant Soft X-Ray Scattering. Physical Review X, 2019, 9, .	2.8	6
24	Coexistence of Ferromagnetic and Stripe-Type Antiferromagnetic Spin Fluctuations in $\text{YFe}_2\text{O}_7$ . Physical Review Letters, 2019, 122, 217003.	2.9	6
25	Magnetic ground state of KCr <sub>3</sub> As <sub>3</sub> . Physical Review B, 2019, 99, .	1.1	6
26	Pressure-induced large enhancement of Néel temperature and electric polarization in the hexagonal multiferroic $\text{Lu}_2\text{V}_2\text{O}_7$ . Physical Review B, 2019, 99, 040401.	1.1	15
27	Effect of spin-orbit coupling on the effective spin correlation in $\text{YbMgGaO}_4$ . Physical Review B, 2018, 97, .	1.1	18
28	Evidence of nodal gap structure in the basal plane of the FeSe superconductor. Physical Review B, 2018, 98, .	1.1	18
29	Fractionalized excitations in the partially magnetized spin liquid candidate YbMgGaO <sub>4</sub> . Nature Communications, 2018, 9, 4138.	5.8	49
30	Multiband One-Dimensional Electronic Structure and Spectroscopic Signature of Tomonaga-Luttinger Liquid Behavior in $\text{K}_2\text{Fe}_4\text{O}_{10}$ . Physical Review Letters, 2017, 118, 097002.	2.9	48
31	Nodal Superconducting Gap Structure in the Quasi-One-Dimensional Cs <sub>2</sub> Cr <sub>3</sub> As <sub>3</sub> Investigated Using $^{15}\text{N}$ SR Measurements. Journal of the Physical Society of Japan, 2017, 86, 044710.	0.7	36
32	Measurement of Meissner effect in micro-sized Nb and FeSe crystals using an NbN nano-SQUID. Superconductor Science and Technology, 2017, 30, 074011.	1.8	5
33	Superconductivity across Lifshitz transition and anomalous insulating state in surface $\text{Li}_{1-x}\text{Fe}_x\text{Fe}_2\text{O}_7$ . Nature Communications, 2017, 8, 123.	4.7	43
34	Structure of spin excitations in heavily electron-doped $\text{Li}_{0.8}\text{Fe}_{0.2}\text{OFeSe}$ superconductors. Nature Communications, 2017, 8, 123.	5.8	33
35	Unexpected low thermal conductivity and large power factor in Dirac semimetal $\text{Cd}_3\text{As}_2$ . Chinese Physics B, 2016, 25, 017202.	0.7	22
36	Evidence for a spinon Fermi surface in a triangular-lattice quantum-spin-liquid candidate. Nature, 2016, 540, 559-562.	13.7	259

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37	Enhancement of superconductivity under pressure and the magnetic phase diagram of tantalum disulfide single crystals. Scientific Reports, 2016, 6, 31824.	1.6	27
38	Highly Anisotropic and Twofold Symmetric Superconducting Gap in Nematically Ordered $\text{FeSe}$ . Physical Review Letters, 2016, 117, 157003.	1.1	68
39	Observation of quasi-two-dimensional Dirac fermions in $\text{ZrTe}_5$ . NPG Asia Materials, 2016, 8, e325-e325.	3.8	51
40	Electronic structure of $\text{YFe}_2$ by angle-resolved photoemission spectroscopy. Physical Review B, 2016, 93, .	1.1	11
41	A unifying phase diagram with correlation-driven superconductor-to-insulator transition for the Hexagonal phase stabilization and magnetic orders of multiferroic $\text{CrO}_2$ . Physical Review Letters, 2016, 116, 197004.	1.1	24
42	Transition from Sign-Reversed to Sign-Preserved Cooper-Pairing Symmetry in Sulfur-Doped Iron Selenide Superconductors. Physical Review Letters, 2016, 116, 197004.	1.1	60
43	Transition from Sign-Reversed to Sign-Preserved Cooper-Pairing Symmetry in Sulfur-Doped Iron Selenide Superconductors. Physical Review Letters, 2016, 116, 197004.	2.9	19
44	Magnetic ground state of $\text{FeSe}$ . Nature Communications, 2016, 7, 12182.	5.8	158
45	Strong interplay between stripe spin fluctuations, nematicity and superconductivity in $\text{FeSe}$ . Nature Materials, 2016, 15, 159-163.	13.3	217
46	Structural and magnetic phase diagram of $\text{CrAs}$ and its relationship with pressure-induced superconductivity. Physical Review B, 2016, 93, .	1.1	38
47	Superconducting ground state of quasi-one-dimensional $\text{KCr}_3\text{AsF}_4$ investigated using neutron scattering. Physical Review Letters, 2016, 116, 077401.	1.1	84
48	Nodeless superconductivity in the presence of spin-density wave in pnictide superconductors: The case of $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2015, 91, .	1.1	27
49	Landau level splitting in $\text{Cd}_3\text{As}_2$ under high magnetic fields. Nature Communications, 2015, 6, 7779.	5.8	126
50	Neutron Scattering Measurements of Spatially Anisotropic Magnetic Exchange Interactions in Semiconducting $\text{K}_0.85\text{Fe}_{1.54}\text{Se}_2$ ( $T_N=280\text{K}$ ). Physical Review Letters, 2014, 112, 177002.	2.9	17
51	Room-Temperature Multiferroic Hexagonal $\text{LuFeO}_3$ Films. Physical Review Letters, 2014, 112, 077401.	2.9	195
52	Effect of Electron Correlations on Magnetic Excitations in the Isovalently Doped Iron-Based Superconductor $\text{Ba}_{1-x}\text{Fe}_x\text{As}_2$ . Physical Review Letters, 2014, 112, 077401.	2.9	10
53	Neutron-Diffraction Measurements of an Antiferromagnetic Semiconducting Phase in the Vicinity of the High-Temperature Superconducting State of $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2014, 112, 077401.	2.9	85
54	Neutron scattering study of underdoped $\text{Ba}_{1-x}\text{Fe}_x\text{As}_2$ . Physical Review Letters, 2014, 112, 077401.	1.1	3

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55	Electron-spin excitation coupling in an electron-doped copper oxide superconductor. Nature Physics, 2011, 7, 719-724.	6.5	25
56	Neutron Scattering Studies of spin excitations in hole-doped Ba <sub>0.67</sub> K <sub>0.33</sub> Fe <sub>2</sub> As <sub>2</sub> superconductor. Scientific Reports, 2011, 1, 115.	1.6	72
57	Electron-doping evolution of the low-energy spin excitations in the iron arsenide superconductor $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2010, 81, .	1.1	73
58	Neutron spin resonance as a probe of the superconducting energy gap of $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2010, 81, .	1.1	34
59	Transition from Three-Dimensional Anisotropic Spin Excitations to Two-Dimensional Spin Excitations by Electron Doping the FeAs-Based $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2009, 103, 087005.	2.9	36
60	Inelastic Neutron-Scattering Measurements of a Three-Dimensional Spin Resonance in the FeAs-Based $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2009, 102, 107006.	2.9	170
61	Spin waves and magnetic exchange interactions in $\text{CaFe}_2\text{As}_2$ . Nature Physics, 2009, 5, 555-560.	6.5	366
62	Structural and magnetic phase diagram of $\text{CeFeAsO}_{1-x}\text{F}_x$ and its relation to high-temperature superconductivity. Nature Materials, 2008, 7, 953-959.	13.3	706
63	Spin and lattice structures of single-crystalline $\text{SrFe}_2\text{As}_2$ . Physical Review Letters, 2008, 101, 167203.	1.1	184
64	Lattice and magnetic structures of $\text{PrFeAsO}$ and $\text{PrFeAsO}_{0.85}$ . Physical Review B, 2008, 78, .	1.1	133
65	Low-Energy Spin Waves and Magnetic Interactions in $\text{SrFe}_2\text{As}_2$ . Physical Review Letters, 2008, 101, 167203.	2.9	161
66	Doping evolution of antiferromagnetic order and structural distortion in $\text{LaFeAsO}_{1-x}\text{F}_x$ . Physical Review B, 2008, 78, .	1.1	103
67	Crystalline Electric Field as a Probe for Long-Range Antiferromagnetic Order and Superconducting State of $\text{CeFeAsO}_{1-x}\text{F}_x$ . Physical Review B, 2008, 78, .	1.1	56
68	Impact of oxygen annealing on the heat capacity and magnetic resonance of superconducting $\text{Pr}_{0.88}\text{Ce}_{0.12}\text{CuO}_{4-x}$ . Physical Review B, 2008, 78, .	1.1	15
69	Weak-coupling Bardeen-Cooper-Schrieffer superconductivity in the electron-doped cuprate superconductors. Physical Review B, 2008, 77, .	1.1	31
70	Distinction between the normal-state gap and superconducting gap of electron-doped cuprates. Physical Review B, 2008, 78, .	1.1	8
71	Neutron-Spin Resonance in the Optimally Electron-Doped Superconductor $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ . Physical Review Letters, 2007, 99, 017001.	2.9	44
72	Quantum spin correlations through the superconducting-to-normal phase transition in electron-doped superconducting $\text{Pr}_{0.88}\text{LaCe}_{0.12}\text{CuO}_{4-x}$ . Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15259-15263.	3.3	19

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73	Thermal treatment effect of the oxidized $\text{La}_2\text{CuO}_4$ : The access of continuous and discontinuous Tc. <i>Physica C: Superconductivity and Its Applications</i> , 2005, 425, 37-43.	0.6	5
74	Anomalies in low-temperature thermal conductivity of underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ single crystals. <i>Superconductor Science and Technology</i> , 2005, 18, 966-969.	1.8	1
75	Insulator-metal transition and magnetoresistance of $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_y$ induced by tuning the oxygen content. <i>Journal of Applied Physics</i> , 2002, 92, 5391-5394.	1.1	10
76	Electrical transport and magnetic properties of $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ with varying oxygen content. <i>Physical Review B</i> , 2002, 65, .	1.1	39
77	Unified Picture for the Spin Resonance Mode in Cr-Based Spinel Oxides Using Inelastic Neutron Scattering. <i>Neutron News</i> , 0, , 1-2.	0.1	0