

Zhijun Xu

List of Publications by Year in descending order

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69
papers

2,875
citations

236925

25
h-index

168389

53
g-index

69
all docs

69
docs citations

69
times ranked

3672
citing authors

#	ARTICLE	IF	CITATIONS
1	Ubiquitous Interplay Between Charge Ordering and High-Temperature Superconductivity in Cuprates. <i>Science</i> , 2014, 343, 393-396.	12.6	506
2	Fluctuating stripes at the onset of the pseudogap in the high-Tc superconductor Bi ₂ Sr ₂ CaCu ₂ O _{8+x} . <i>Nature</i> , 2010, 468, 677-680.	27.8	210
3	Electronic Origin of the Inhomogeneous Pairing Interaction in the High-T _c Superconductor Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . <i>Science</i> , 2008, 320, 196-201.	12.6	186
4	Proximity-induced high-temperature superconductivity in the topological insulators Bi ₂ Se ₃ and Bi ₂ Te ₃ . <i>Nature Communications</i> , 2012, 3, 1056.	12.8	153
5	Fully gapped topological surface states in Bi ₂ Se ₃ films induced by a d-wave high-temperature superconductor. <i>Nature Physics</i> , 2013, 9, 621-625.	16.7	149
6	Extending Universal Nodal Excitations Optimizes Superconductivity in Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . <i>Science</i> , 2009, 324, 1689-1693.	12.6	107
7	Symmetry protected Josephson supercurrents in three-dimensional topological insulators. <i>Nature Communications</i> , 2013, 4, 1689.	12.8	105
8	Investigation of the Spin-Glass Regime between the Antiferromagnetic and Superconducting Phases in Fe _{1+y} Se _x Te _{1-x} . <i>Journal of the Physical Society of Japan</i> , 2010, 79, 113702.	1.6	96
9	Two-dimensional overdamped fluctuations of the soft perovskite lattice in CsPbBr ₃ . <i>Nature Materials</i> , 2021, 20, 977-983.	27.5	89
10	Imaging nanoscale Fermi-surface variations in an inhomogeneous superconductor. <i>Nature Physics</i> , 2009, 5, 213-216.	16.7	81
11	Unconventional Temperature Enhanced Magnetism in $\text{Fe}_{1.1}\text{Te}$. <i>Physical Review Letters</i> , 2011, 107, 216403.	7.8	79
12	Imaging the Impact of Single Oxygen Atoms on Superconducting Bi _{2+y} Sr _{2δ} CaCu ₂ O _{8+x} . <i>Science</i> , 2012, 337, 320-323.	12.6	79
13	Absolute cross-section normalization of magnetic neutron scattering data. <i>Review of Scientific Instruments</i> , 2013, 84, 083906.	1.3	64
14	Short-range incommensurate magnetic order near the superconducting phase boundary in $\text{Fe}_{1.1}\text{Te}$. <i>Physical Review B</i> , 2009, 80, .	3.2	62
15	Disappearance of static magnetic order and evolution of spin fluctuations in $\text{Fe}_{1.1}\text{Te}$. <i>Physical Review B</i> , 2010, 82, .	3.2	52
16	Effect of magnetic field on the spin resonance in $\text{FeTe}_{0.5}$ seen via inelastic neutron scattering. <i>Physical Review B</i> , 2010, 81, .	3.2	49
17	Strong quantum fluctuations in a quantum spin liquid candidate with a Co-based triangular lattice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14505-14510.	7.1	43
18	Ferro-Orbital Ordering Transition in Iron Telluride Fe_{1-x}Te . <i>Physical Review Letters</i> , 2014, 112, 187202.	7.8	40

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19	Scanning tunnelling microscopy imaging of symmetry-breaking structural distortion in the bismuth-based cuprate superconductors. Nature Materials, 2012, 11, 585-589.	27.5	39
20	Phase separation in the iron chalcogenide superconductor $\text{Fe}_{1+y}\text{Te}_x\text{Se}_{1-\hat{x}}$. New Journal of Physics, 2011, 13, 053031.	2.9	37
21	Electronic properties of the bulk and surface states of $\text{Fe}_{1+y}\text{Te}_{1-\hat{x}}\text{Se}_x$. Nature Materials, 2021, 20, 1221-1227.	27.5	34
22	Uniaxial linear resistivity of superconducting $\text{La}_{1.905}\text{Ba}_{0.095}\text{CuO}$. Nature Materials, 2014, 13, 177002.	3.2	32
23	Nanoscale Proximity-Induced High-Temperature Superconductivity in $\text{Sr}_2\text{Bi}_2\text{O}_8$. Physical Review Letters, 2014, 113, 177002.	3.2	29
24	Magnetic field induced enhancement of spin-order peak intensity in $\text{La}_{1.875}\text{Sr}_{0.125}\text{CuO}$. Physical Review B, 2008, 78, .	3.2	27
25	Topological Singularity Induced Chiral Kohn Anomaly in a Weyl Semimetal. Physical Review Letters, 2020, 124, 236401.	7.8	27
26	Probing the bulk electronic states of Bi_2Se_3 using nuclear magnetic resonance. Physical Review B, 2017, 96, 080405.	3.2	26
27	Neutron Scattering Evidence for a Periodically Modulated Superconducting Phase in the Underdoped Cuprate $\text{La}_{1.905}\text{Sr}_{0.095}\text{CuO}$. Physical Review Letters, 2014, 113, 177002.	7.8	24
28	Carrier density control of magnetism and Berry phases in doped EuTiO_3 . APL Materials, 2018, 6, .	5.1	24
29	Nanoscale Interplay of Strain and Doping in a High-Temperature Superconductor. Nano Letters, 2014, 14, 6749-6753.	9.1	23
30	Two-component model of the neutron diffuse scattering in the relaxor ferroelectric PZN-4.5%PT. Physical Review B, 2010, 82, .	3.2	22
31	Local-moment magnetism in superconducting $\text{FeTe}_{0.35}\text{Se}_{0.65}$ as seen via inelastic neutron scattering. Physical Review B, 2011, 84, .	3.2	21
32	Thermal evolution of the full three-dimensional magnetic excitations in the multiferroic BiFeO_3 . Physical Review B, 2012, 86, .	3.2	20
33	Temperature-Dependent Transformation of the Magnetic Excitation Spectrum on Approaching Superconductivity in $\text{Fe}_{1+y}\text{Te}_x(\text{Ni/Cu})\text{Te}_{0.5}\text{Se}_{0.5}$. Physical Review Letters, 2012, 109, 227002.	7.8	20
34	A unified form of low-energy nodal electronic interactions in hole-doped cuprate superconductors. Nature Communications, 2019, 10, 5737.	12.8	20
35	Probing the connections between superconductivity, stripe order, and structure in $\text{La}_{1.905}\text{Ba}_{0.095}\text{Cu}$. Nature Materials, 2014, 13, 177002.	3.2	19
36	Correlation-driven electronic reconstruction in $\text{FeTe}_{1-\hat{x}}\text{Se}_x$. Communications Physics, 2022, 5, .	5.3	17

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37	<p>Scattering from incipient stripe order in the high-temperature superconductor $\text{Bi}_2\text{Te}_2\text{O}_7$. Physical Review B, 2012, 86, .</p> <p>Magnetic order tuned by Cu substitution in Fe_{1-x}Te. Physical Review B, 2015, 91, .</p>	3.2	16
38	<p>Neutron inelastic scattering measurements of low-energy phonons in the multiferroic BiFeO_3. Physical Review B, 2015, 91, .</p>	3.2	14
39	<p>Thermal evolution of antiferromagnetic correlations and tetrahedral bond angles in superconducting $\text{FeTe}_{1-x}\text{S}_x$. Physical Review B, 2016, 93, .</p>	3.2	13
40	<p>Amplitude mode in the planar triangular antiferromagnet $\text{Na}_0.9\text{MnO}_2$. Nature Communications, 2018, 9, 2188.</p>	12.8	13
41	<p>Scattering from incipient stripe order in the high-temperature superconductor $\text{Bi}_2\text{Te}_2\text{O}_7$. Physical Review B, 2012, 86, .</p>	3.2	12
42	<p>Successive field-induced transitions in BiFeO_3 around room temperature. Physical Review Materials, 2017, 1, .</p>	3.2	11
43	<p>Optical properties of the iron-chalcogenide superconductor $\text{FeTe}_{0.55}\text{Se}_{0.45}$. Journal of Physics and Chemistry of Solids, 2011, 72, 505-510.</p>	4.0	11
44	<p>Measurement of the spectral line shapes for orbital excitations in the Mott insulator CoO using high-resolution resonant inelastic x-ray scattering. Physical Review B, 2013, 88, .</p>	3.2	11
45	<p>Hybrid High-Temperature-Superconductor "Semiconductor Tunnel Diode". Physical Review X, 2012, 2, .</p>	8.9	10
46	<p>Adsorption of iodine and potassium on $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ investigated by low-energy alkali-ion scattering. Physical Review B, 2010, 81, .</p>	3.2	9
47	<p>Evidence for a new excitation at the interface between a high-T_c superconductor and a low-T_c superconductor. Physical Review B, 2010, 81, .</p>	3.2	9
48	<p>Low-energy magnetic excitations from the $\text{Fe}(\text{Ni}/\text{Cu})\text{S}_2$ system. Physical Review B, 2012, 86, .</p>	3.2	9
49	<p>Freezing of the local dynamics in the relaxor ferroelectric $[\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3]_{0.955}[\text{PbTiO}_3]_{0.045}$. Physical Review B, 2012, 86, .</p>	3.2	8
50	<p>Forbidden phonon: Dynamical signature of bond symmetry breaking in the iron chalcogenides. Physical Review B, 2016, 94, .</p>	3.2	8
51	<p>Coexistence of superconductivity and short-range double-stripe spin correlations in Te-vapor annealed $\text{FeTe}_{1-x}\text{S}_x$ ($x \approx 0.2$). Physical Review B, 2018, 97, .</p>	3.2	8
52	<p>Nonsuperconducting electronic ground state in pressurized BaFe_2S_3 and BaFe_2Te_3. Physical Review B, 2018, 97, .</p>	3.2	8

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55	Spin-induced Spin-Nematic State and Nematic Susceptibility Arising from KFe_2As_2 Fe Clusters in $KFe_{1-x}Ni_xAs_2$ Physical Review Letters, 2019, 123, 247205.	7.8	7
56	Copper-substituted iron telluride: A phase diagram. Physical Review B, 2015, 91, .	3.2	6
57	Substitution of Ni for Fe in superconducting $Fe_{0.98}Te_{0.5}Se_{0.5}$ depresses the normal-state conductivity but not the magnetic spectral weight. Physical Review B, 2015, 91, .	3.2	6
58	Modeling tunneling for the unconventional superconducting proximity effect. Superconductor Science and Technology, 2016, 29, 125006.	3.5	6
59	Low-energy phonons and superconductivity in $Sn_{1-x}Pb_xTe$ Physical Review B, 2015, 91, .	3.2	5
60	Electric field effect on short-range polar order in a relaxor ferroelectric system. Physical Review B, 2019, 100, .	3.2	5
61	Electron-phonon coupling and superconductivity in the doped topological crystalline insulator $(Pb_{0.5}Sn_{0.5})_{1-x}In_xTe$. Physical Review B, 2020, 102, .	3.2	5
62	Surface restructuring in sputter-damaged $Bi_2Sr_2CaCu_2O_{8+\delta}$. Physical Review B, 2011, 84, .	3.2	4
63	Surprising loss of three-dimensionality in low-energy spin correlations on approaching superconductivity in $Fe_{1-x}Co_x$ Physical Review B, 2017, 96, .	3.2	4
64	Phonon coupling to dynamic short-range polar order in a relaxor ferroelectric near the morphotropic phase boundary. Physical Review B, 2015, 92, .	3.2	3
65	Andreev reflection without Fermi surface alignment in high- T_c van der Waals heterostructures. New Journal of Physics, 2017, 19, 043026.	2.9	3
66	Comment on "Giant electromechanical coupling of relaxor ferroelectrics controlled by polar nanoregion vibrations" Science Advances, 2019, 5, eaar5066.	10.3	3
67	Observation of a C -type short-range antiferromagnetic order in layer spacing expanded FeS. Physical Review Materials, 2020, 4, .	2.4	3
68	Correlating magnetic structure and magnetotransport in semimetal thin films of $Eu_{1-x}Gd_x$ Physical Review Materials, 2020, 4, .	3.2	2
69	Suppression of the antiferromagnetic order when approaching the superconducting state in a phase-separated crystal of $K_xFe_2As_{2-y}Se_2$. Physical Review B, 2017, 96, .	3.2	2