Zhijun Xu

List of Publications by Year
in descending order

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69	2,875	236925 25	168389 53
papers	citations	h-index	g-index

69	69	69	3672
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Correlation-driven electronic reconstruction in FeTe1âˆ’xSex. Communications Physics, 2022, 5, .	5.3	17
2	Two-dimensional overdamped fluctuations of the soft perovskite lattice in CsPbBr3. Nature Materials, 2021, 20, 977-983.	27.5	89
3	Electronic properties of the bulk and surface states of Fe1+yTe1âˆ’xSex. Nature Materials, 2021, 20, 1221-1227.	27.5	34
4	Electron-phonon coupling and superconductivity in the doped topological crystalline insulator (Pb0.5Sn0.5)1âˆ’xInxTe. Physical Review B, 2020, 102, .	3.2	5
5	Topological Singularity Induced Chiral Kohn Anomaly in a Weyl Semimetal. Physical Review Letters, 2020, 124, 236401.	7.8	27
6	Nonsuperconducting electronic ground state in pressurized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mrow><mml:mn>2.5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Revie	3.2	8
7	Observation of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>C</mml:mi></mml:math> -type short-range antiferromagnetic order in layer spacing expanded FeS. Physical Review Materials, 2020, 4, .	2.4	3
8	Correlating magnetic structure and magnetotransport in semimetal thin films of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Materials, 2020, 4, .	2.4	5
9	Electric field effect on short-range polar order in a relaxor ferroelectric system. Physical Review B, 2019, 100, .	3.2	5
10	Strong quantum fluctuations in a quantum spin liquid candidate with a Co-based triangular lattice. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14505-14510.	7.1	43
11	Comment on â€œGiant electromechanical coupling of relaxor ferroelectrics controlled by polar nanoregion vibrationsâ€• Science Advances, 2019, 5, eaar5066.	10.3	3
12	A unified form of low-energy nodal electronic interactions in hole-doped cuprate superconductors. Nature Communications, 2019, 10, 5737.	12.8	20
13	Strain-Induced Spin-Nematic State and Nematic Susceptibility Arising from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:math> Fe Clusters in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>KFe</mml:mi></mml:mrow><mml:mrow><mml:mn>0.8</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2019, 123, 247205.	7.8	7
14	Carrier density control of magnetism and Berry phases in doped EuTiO3. APL Materials, 2018, 6, .	5.1	24
15	Amplitude mode in the planar triangular antiferromagnet Na0.9MnO2. Nature Communications, 2018, 9, 2188.	12.8	13
16	Coexistence of superconductivity and short-range double-stripe spin correlations in Te-vapor annealed FeTe1âˆ’xSex (xâ‰ˆ0.2). Physical Review B, 2018, 97, .	3.2	8
17	Surprising loss of three-dimensionality in low-energy spin correlations on approaching superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2017, 96, .	3.2	4
18	Andreev reflection without Fermi surface alignment in high-T_cvan der Waals heterostructures. New Journal of Physics, 2017, 19, 043026.	2.9	3

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19	Suppression of the antiferromagnetic order when approaching the superconducting state in a phase-separated crystal of KxFe2âˆ’ySe2. Physical Review B, 2017, 96, .	3.2	2
20	Successive field-induced transitions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></m around room temperature. Physical Review Materials, 2017, 1, .	2.4	12
21	Forbidden phonon: Dynamical signature of bond symmetry breaking in the iron chalcogenides. Physical Review B, 2016, 94, .	3.2	8
22	Thermal evolution of antiferromagnetic correlations and tetrahedral bond angles in superconductingFeTe1âˆ’xSex. Physical Review B, 2016, 93, .	3.2	13
23	Modeling tunneling for the unconventional superconducting proximity effect. Superconductor Science and Technology, 2016, 29, 125006.	3.5	6
24	Copper-substituted iron telluride: A phase diagram. Physical Review B, 2015, 91, .	3.2	6
25	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
26	Low-energy phonons and superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sn</mml:mi><mml:mrow> Physical Review B, 2015, 91, .	3.2	5
27	Substitution of Ni for Fe in superconductingFe0.98Te0.5Se0.5depresses the normal-state conductivity but not the magnetic spectral weight. Physical Review B, 2015, 91, .	3.2	6
28	Neutron inelastic scattering measurements of low-energy phonons in the multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2015, 91, .	3.2	13
29	Evidence for a new excitation at the interface between a high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:ma and a topological insulator. Physical Review B, 2014, 90, .	3.2	9
30	Neutron-Scattering Evidence for a Periodically Modulated Superconducting Phase in the Underdoped Cuprate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mn>1.905</mml:mn></mml:mrow> Physical Review Letters, 2014, 113, 177002.	7.8	24
31	Ferro-Orbital Ordering Transition in Iron Telluride <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow> Physical Review Letters, 2014, 112, 187202.	7.8	40
32	Ubiquitous Interplay Between Charge Ordering and High-Temperature Superconductivity in Cuprates. Science, 2014, 343, 393-396.	12.6	506
33	Nanoscale Interplay of Strain and Doping in a High-Temperature Superconductor. Nano Letters, 2014, 14, 6749-6753.	9.1	23
34	Low-energy magnetic excitations from the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>+</mml:mo><mml:mi>y</mml:mi><mml:mo>âˆ’</m (Ni/Cu) <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mi>z</mml:mi></mml:msub></mml:math> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Te</	3.2	9
35	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, .	3.2	11
36	Fully gapped topological surface states in Bi2Se3 films induced by a d-wave high-temperature superconductor. Nature Physics, 2013, 9, 621-625.	16.7	149

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37	Symmetry protected Josephson supercurrents in three-dimensional topological insulators. Nature Communications, 2013, 4, 1689.	12.8	105
38	Absolute cross-section normalization of magnetic neutron scattering data. Review of Scientific Instruments, 2013, 84, 083906.	1.3	64
39	Enhanced low-energy magnetic excitations via suppression of the itinerancy in Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.98</mml:mn><mml:mo>â^’</mml:mo><mml:mi>z</mml:mi></mml:mrow></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 87, .	3.2	14
40	Probing the connections between superconductivity, stripe order, and structure in La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.905</mml:mn></mml:mrow></mml:msub></mml:math>Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.095</mml:mn></mml:mrow></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>.	3.2	19
41	Structure of the oxygen-annealed chalcogenide superconductor Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.905</mml:mn></mml:mrow></mml:msub></mml:math>Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.095</mml:mn></mml:mrow></mml:msub></mml:math>CuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>.	3.2	32
42	Freezing of the local dynamics in the relaxor ferroelectric [Pb(Zn1/3Nb2/3)O3]0.955[PbTiO3]0.045. Physical Review B, 2012, 86, .	3.2	8
43	Hybrid High-Temperature-Superconductorâ€“Semiconductor Tunnel Diode. Physical Review X, 2012, 2, .	8.9	10
44	Structure of the oxygen-annealed chalcogenide superconductor Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.08</mml:mn></mml:mrow></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.55</mml:mn></mml:mrow></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>.	3.2	16
45	Probing the bulk electronic states of Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>using nuclear magnetic resonance. Physical Review B, 2012, 86, .	3.2	12
46	Magnetic order tuned by Cu substitution in Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>z</mml:mi></mml:mrow></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mi>z</mml:mi></mml:mrow></mml:msub></mml:math>Te. Physical Review B, 2012, 86, .	3.2	26
47	Proximity-induced high-temperature superconductivity in the topological insulators Bi2Se3 and Bi2Te3. Nature Communications, 2012, 3, 1056.	12.8	153
48	Thermal evolution of the full three-dimensional magnetic excitations in the multiferroic BiFeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 86, .	3.2	20
49	Temperature-Dependent Transformation of the Magnetic Excitation Spectrum on Approaching Superconductivity inFe1+yâ^’x(Ni/Cu)xTe0.5Se0.5. Physical Review Letters, 2012, 109, 227002.	7.8	20
50	Imaging the Impact of Single Oxygen Atoms on Superconducting Bi _{2+y} Sr _{2â€“y} CaCu ₂ O _{8+x}. Science, 2012, 337, 320-323.	12.6	79
51	Scanning tunnelling microscopy imaging of symmetry-breaking structural distortion in the bismuth-based cuprate superconductors. Nature Materials, 2012, 11, 585-589.	27.5	39
52	Phase separation in the iron chalcogenide superconductor Fe_{1+y}Te_xSe_{1â^’x}. New Journal of Physics, 2011, 13, 053031.	2.9	37
53	Unconventional Temperature Enhanced Magnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Fe</mml:mi><mml:mn>1.1</mml:mn></mml:msub><mml:mi>Te</mml:mi></mml:math>. Physical Review Letters, 2011, 107, 216403.	7.8	79
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55	Optical properties of the iron-chalcogenide superconductor FeTe0.55Se0.45. Journal of Physics and Chemistry of Solids, 2011, 72, 505-510.	4.0	11
56	Local-moment magnetism in superconducting FeTe0.35Se0.65as seen via inelastic neutron scattering. Physical Review B, 2011, 84, .	3.2	21
57	Surface restructuring in sputter-damaged Bi2Sr2CaCu2O8+Î´. Physical Review B, 2011, 84, .	3.2	4
58	Two-component model of the neutron diffuse scattering in the relaxor ferroelectric PZN-4.5%PT. Physical Review B, 2010, 82, .	3.2	22
59	Fluctuating stripes at the onset of the pseudogap in the high-Tc superconductor Bi2Sr2CaCu2O8+x. Nature, 2010, 468, 677-680.	27.8	210
60	Investigation of the Spin-Glass Regime between the Antiferromagnetic and Superconducting Phases in Fe_{1+y}Se_xTe_{1-x}. Journal of the Physical Society of Japan, 2010, 79, 113702.	1.6	96
61	Adsorption of iodine and potassium onBi2Sr2CaCu2O8+Îinvestigated by low-energy alkali-ion scattering. Physical Review B, 2010, 81, .	3.2	9
62	Effect of magnetic field on the spin resonance in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>FeTe</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>seen via inelastic neutron scattering. Physical Review B, 2010, 81, .	3.2	49
63	Disappearance of static magnetic order and evolution of spin fluctuations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Physical Review B, 2010, 82, .	3.2	52
64	Nanoscale Proximity Effect in the High-Temperature Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Ca</mml:mi><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mrow><mml:mn>8</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:math>a Scanning Tunneling Microscope. Physical Review Letters, 2010, 104, 117001.	7.8	29
65	Short-range incommensurate magnetic order near the superconducting phase boundary in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Physical Review B, 2009, 80, .	3.2	62
66	Imaging nanoscale Fermi-surface variations in an inhomogeneous superconductor. Nature Physics, 2009, 5, 213-216.	16.7	81
67	Extending Universal Nodal Excitations Optimizes Superconductivity in Bi ₂ Sr ₂ CaCu ₂ O _{8+Î´}. Science, 2009, 324, 1689-1693.	12.6	107
68	Electronic Origin of the Inhomogeneous Pairing Interaction in the High- T _c Superconductor Bi ₂ Sr ₂ CaCu ₂ O _{8+Î´}. Science, 2008, 320, 196-201.	12.6	186
69	Magnetic field induced enhancement of spin-order peak intensity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>1.875</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Physical Review B, 2008, 78, .	3.2	27