

# Xingye Lu

## List of Publications by Year in descending order

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94  
papers

2,486  
citations

249298

26  
h-index

242451

47  
g-index

99  
all docs

99  
docs citations

99  
times ranked

3335  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge ordering in Ir dimers in the ground state of Ba <sub>5</sub> AlIr <sub>2</sub> O <sub>11</sub> . Physical Review B, 2022, 105, .	1.1	1
2	å...³è”µåææ-™ä,çæ;€åçš,,éžå/4¹æ€šä,åå'CEXå°,ç°;æ•£å°,æžæµ«. Scientia Sinica: Physica, Mechanica Et Astronomica, 2022, , .		
3	Possible Dirac quantum spin liquid in the kagome quantum antiferromagnet <mml:math		

#	ARTICLE	IF	CITATIONS
19	Anisotropic spin fluctuations in detwinned FeSe. Nature Materials, 2019, 18, 709-716.	13.3	60
20	Probing hydrogen bond strength in liquid water by resonant inelastic X-ray scattering. Nature Communications, 2019, 10, 1013.	5.8	53
21	What Triggers Oxygen Loss in Oxygen Redox Cathode Materials?. Chemistry of Materials, 2019, 31, 3293-3300.	3.2	147
22	Electronic localization in CaVO3 films via bandwidth control. Npj Quantum Materials, 2019, 4, .	1.8	16
23	Compatibility of quantitative X-ray spectroscopy with continuous distribution models of water at ambient conditions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4058-4063.	3.3	54
24	Reply to Pettersson et al.: Why X-ray spectral features are compatible to continuous distribution models in ambient water. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17158-17159.	3.3	9
25	Reciprocity between local moments and collective magnetic excitations in the phase diagram of $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$ . Communications Physics, 2019, 2, .	2.0	15
26	Strain-Induced Spin-Nematic State and Nematic Susceptibility Arising from $\text{Fe}$ Clusters in $\text{BaFe}_2\text{As}_{2-x}\text{Ni}_x\text{As}_2$ . Physical Review Letters, 2019, 123, 247205.	2.9	7
27	Direct observation of spin excitation anisotropy in the paramagnetic orthorhombic state of $\text{BaFe}_2\text{As}_{2-x}\text{Ni}_x\text{As}_2$ . Physical Review B, 2018, 97, .	1.1	7
28	Resonant inelastic x-ray scattering studies of magnons and bimagnons in the lightly doped cuprate $\text{La}_2\text{CuO}_4$ . Physical Review B, 2018, 97, .	1.1	22
29	Spin-isotropic continuum of spin excitations in antiferromagnetically ordered $\text{Fe}_{1.07}\text{Te}$ . Physical Review B, 2018, 97, .	1.1	6
30	Oxygen redox chemistry without excess alkali-metal ions in $\text{Na}_{2/3}[\text{Mg}_{0.28}\text{Mn}_{0.72}]\text{O}_2$ . Nature Chemistry, 2018, 10, 288-295.	6.6	414
31	Dispersive magnetic and electronic excitations in iridate perovskites probed by oxygen $K$ -edge resonant inelastic x-ray scattering. Physical Review B, 2018, 97, .	1.1	20
32	Spin Waves in Detwinned $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2018, 121, 067002.	1.1	23
33	Superconducting gap symmetry in the superconductor $\text{BaFe}_{1.9}\text{Ni}_{0.1}\text{As}_2$ . Physical Review B, 2018, 97, .	1.1	5
34	Uniaxial pressure effect on the magnetic ordered moment and transition temperatures in $\text{BaFe}_2\text{As}_2$ .		

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37	Electronic and magnetic excitations in the half-stuffed Cu-O planes of $\text{Ba}_{1-x}\text{O}_{4-x}\text{Cl}_2$ measured by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2017, 96, .		
38	Damped spin excitations in a doped cuprate superconductor with orbital hybridization. <i>Physical Review B</i> , 2017, 95, .	1.1	16
39	Two-Dimensional Massless Dirac Fermions in Antiferromagnetic $\text{A}_x\text{Fe}_{2-x}\text{Mn}_2\text{O}_7$ . <i>Physical Review Letters</i> , 2017, 119, 096401.	2.9	20
40	Crossover from Collective to Incoherent Spin Excitations in Superconducting Cuprates Probed by Detuned Resonant Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 2017, 119, 097001.	2.9	26
41	Magnetic fluctuations in $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ superconductors. <i>Solid State Communications</i> , 2017, 267, 48-52.	0.9	0
42	Spin excitation anisotropy in the paramagnetic tetragonal phase of $\text{BaFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2017, 96, .	1.1	10
43	Temperature and polarization dependence of low-energy magnetic fluctuations in nearly optimally doped $\text{NaFe}_{0.9785}\text{Co}_{0.0215}\text{As}$ . <i>Physical Review B</i> , 2017, 96, .	1.1	6
44	Angular-dependent magnetic torque in iron-pnictide $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ . <i>International Journal of Modern Physics B</i> , 2017, 31, 1750005.	1.0	0
45	Zone plates as imaging analyzers for resonant inelastic x-ray scattering. <i>Optics Express</i> , 2017, 25, 15624.	1.7	10
46	Iron-Based Superconductors. Springer Theses, 2017, , 9-27.	0.0	0
47	Nematic Spin Correlations in Detwinned $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ . Springer Theses, 2017, , 81-99.	0.0	0
48	Motivation and Overview. Springer Theses, 2017, , 1-7.	0.0	0
49	Phase Diagram and Avoided Quantum Criticality in $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ . Springer Theses, 2017, , 51-66.	0.0	0
50	Magneto-resistivity and filamentary superconductivity in nickel-doped $\text{BaFe}_2\text{As}$ . <i>Chinese Physics B</i> , 2016, 25, 047401.	0.7	2
51	Spin anisotropy due to spin-orbit coupling in optimally hole-doped $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ . <i>Physical Review B</i> , 2016, 94, .	1.1	17
52	Nematic Quantum Critical Fluctuations in $\text{BaFe}_2\text{As}_2$ . <i>Physical Review Letters</i> , 2016, 117, 157002.	2.9	33
53	Effect of Nematic Order on the Low-Energy Spin Fluctuations in Detwinned $\text{BaFe}_2\text{As}_2$ . <i>Physical Review Letters</i> , 2016, 117, 227003.	2.9	23
54	Electronic specific heat in $\text{BaFe}_2\text{As}_2$ . <i>Physical Review B</i> , 2016, 93, .	1.1	17

#	ARTICLE	IF	CITATIONS
55	Impact of uniaxial pressure on structural and magnetic phase transitions in electron-doped iron pnictides. Physical Review B, 2016, 93, .	1.1	32
56	Electronic nematic correlations in the stress-free tetragonal state of $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2015, 92, .	1.1	30
57	Origin of the anisotropic superconductivity in $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2015, 92, .	1.1	24
58	Energy dependence of the spin excitation anisotropy in uniaxial-strained $\text{BaFe}_{1.9}\text{Ni}_{0.1}\text{As}_2$ . Physical Review B, 2015, 92, .	1.1	18
59	Large increase of the anisotropy factor in the overdoped region of $\text{Ba}(\text{Fe}_{1-x}\text{Ni}_x)_2\text{As}_2$ as probed by fluctuation spectroscopy. Superconductor Science and Technology, 2015, 28, 075004.	1.8	3
60	Nodeless superconductivity in the presence of spin-density wave in pnictide superconductors: The case of $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ . Physical Review B, 2015, 91, .	1.1	27
61	Structural and Magnetic Phase Transitions near Optimal Superconductivity in $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2015, 91, .		

#	ARTICLE	IF	CITATIONS
73	Doping dependence of spin excitations and its correlations with high-temperature superconductivity in iron pnictides. Nature Communications, 2013, 4, 2874. Distinguishing $\langle \mathbf{m}_i \cdot \mathbf{s}_i \rangle$ and $\langle \mathbf{A}_i \cdot \mathbf{s}_i \rangle$ pairing symmetries by neutron spin resonance in superconducting NaFeAs. Physical	5.8	94
74	Paramagnetic spin excitations in insulating Rb <sub>0.8</sub> Fe <sub>1.6</sub> Se <sub>2</sub> . Physical Review B, 2013, 87, . Electron doping evolution of the magnetic excitations in BaFe <sub>2</sub> As <sub>2</sub> with as-grown and annealed BaFe <sub>2</sub> As <sub>2</sub> and its comparison with as-grown and annealed BaFe <sub>2</sub> As <sub>2</sub> .	1.1	1
75	Vortex dynamics as a function of field orientation in BaFe <sub>1.9</sub> Ni <sub>0.1</sub> As <sub>2</sub> . Superconductor Science and Technology, 2013, 26, 025006.	1.1	42
76	Measurements of the fluctuation-induced in-plane magnetoconductivity at high reduced temperatures and magnetic fields in the iron arsenide BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> . Superconductor Science and Technology, 2013, 26, 055004.	1.1	33
77	Critical and Gaussian conductivity fluctuations in a BaFe <sub>1.9</sub> Ni <sub>0.1</sub> As <sub>2</sub> superconductor. Superconductor Science and Technology, 2013, 26, 125019.	1.8	9
78	Electron-boson coupling and two superconducting gaps in optimally electron-doped BaFe <sub>1.9</sub> Ni <sub>0.1</sub> As <sub>2</sub> single crystals. Physical Review B, 2012, 86, . Neutron scattering studies of spin excitations in superconducting RbNiFeAs.	1.8	13
79	Scaling of the physical properties in Ba(Fe,Ni) <sub>2</sub> As <sub>2</sub> single crystals: Evidence for quantum fluctuations. Physical Review B, 2012, 85, .	1.1	6
80	Coexistence and Competition of the Short-Range Incommensurate Antiferromagnetic Order with the Superconducting State of BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> . Physical Review Letters, 2012, 108, 247002.	1.1	18
81	Electron doping evolution of the anisotropic spin excitations in BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> crystals. Physica C: Superconductivity and Its Applications, 2012, 483, 207-212.	1.1	8
82	Fishtail and vortex dynamics in the Ni-doped iron pnictide BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> large crystals. Superconductor Science and Technology, 2011, 24, 065004.	2.9	88
83	Buffer-layer-enhanced magnetic field effect in La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> /LaMnO <sub>3</sub> /SrTiO <sub>3</sub> :Nb heterojunctions. Journal of Applied Physics, 2011, 109, 07C729.	1.1	27
84	Systematic growth of BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> large crystals. Superconductor Science and Technology, 2011, 24, 065004.	1.1	45
85		0.6	5
86		1.1	21
87		1.8	59
88		1.1	4

#	ARTICLE	IF	CITATIONS
91	Effect of the in-plane magnetic field on the neutron spin resonance in optimally doped FeSe <sub>0.4</sub> Te <sub>0.6</sub> and BaFe <sub>1.9</sub> Ni <sub>0.1</sub> As <sub>2</sub> superconductors. Physical Review B, 2011, 84, . Antiferromagnetic order and superlattice structure in nonsuperconducting and superconducting Rb	1.1	17
92	$\text{Fe}_{1-y}\text{Se}_{1.6}$ display="inline"><math>\text{Fe}_{1-y}\text{Se}_{1.6}</math> Normal-State Hourglass Dispersion of the Spin Excitations in FeSe <sub>1-x</sub> Te <sub>x</sub> . Physical Review Letters, 2010, 105, 157002.	1.1	54
93	Normal-State Hourglass Dispersion of the Spin Excitations in FeSe <sub>1-x</sub> Te <sub>x</sub> . Physical Review Letters, 2010, 105, 157002.	2.9	34
94	Effect of temperature on the La <sub>1-x</sub> CaxMnO <sub>3</sub> /SrTiO <sub>3</sub> :Nb (x=0~0.75) heterojunctions. Applied Physics Letters, 2010, 97, 022502.	1.5	7