

# Xingye Lu

## List of Publications by Year in descending order

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94  
papers

2,486  
citations

218662  
26  
h-index

214788  
47  
g-index

99  
all docs

99  
docs citations

99  
times ranked

2957  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	13.6	414
2	Nematic spin correlations in the tetragonal state of uniaxial-strained $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ . Science, 2014, 345, 657-660.	12.6	167
3	What Triggers Oxygen Loss in Oxygen Redox Cathode Materials?. Chemistry of Materials, 2019, 31, 3293-3300.	6.7	147
4	Doping dependence of spin excitations and its correlations with high-temperature superconductivity in iron pnictides. Nature Communications, 2013, 4, 2874.	12.8	94
5	Coexistence and Competition of the Short-Range Incommensurate Antiferromagnetic Order with the Superconducting State of $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ . Physical Review Letters, 2012, 108, 247002.	7.8	88
6	Avoided Quantum Criticality and Magnetoelastic Coupling in $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ . Physical Review Letters, 2013, 110, 257001.	7.8	68
7	Anisotropic spin fluctuations in detwinned FeSe. Nature Materials, 2019, 18, 709-716.	27.5	60
8	Systematic growth of $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ large crystals. Superconductor Science and Technology, 2011, 24, 065004.	3.5	59
9	Spin Excitation Anisotropy as a Probe of Orbital Ordering in the Paramagnetic Tetragonal Phase of Superconducting $\text{BaFe}_{1.904-x}\text{Ni}_x\text{As}_2$ . Antiferromagnetic order and superlattice structure in nonsuperconducting and superconducting $\text{RbFe}_{1.6-x}\text{Ni}_x\text{As}_2$ . Physical Review B, 2011, 83, 040407.	7.8	56
10	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.	3.2	54
11	Probing hydrogen bond strength in liquid water by resonant inelastic X-ray scattering. Nature Communications, 2019, 10, 1013.	7.1	54
12	Structural and Magnetic Phase Transitions near Optimal Superconductivity in $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ .	12.8	53
13			

#	ARTICLE	IF	CITATIONS
19	Normal-State Hourglass Dispersion of the Spin Excitations in $\text{FeSe}_{1-x}\text{Te}_x$ . Physical Review Letters, 2010, 105, 157002.	7.8	34
20	Uniaxial pressure effect on structural and magnetic phase transitions in $\text{NaFeAs}$ and its comparison with as-grown and annealed $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2013, 87, .	3.2	33
21	Nematic Quantum Critical Fluctuations in $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2016, 117, 157002.	7.8	33
22	Impact of uniaxial pressure on structural and magnetic phase transitions in electron-doped iron pnictides. Physical Review B, 2016, 93, .	3.2	32
23	Doping evolution of the charge excitations and electron correlations in electron-doped superconducting $\text{La}_2\text{CexCuO}_4$ . Npj Quantum Materials, 2020, 5, .	5.2	31
24	Electronic nematic correlations in the stress-free tetragonal state of $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2015, 92, .	3.2	30
25	Doping Evolution of Magnetic Order and Magnetic Excitations in $\text{Sr}_{1-x}\text{Ni}_x\text{As}_2$ . Polarized neutron scattering studies of magnetic excitations in electron-overdoped superconducting $\text{BaFe}_2\text{As}_2$ .	3.2	27
26	Nodeless superconductivity in the presence of spin-density wave in pnictide superconductors: The case of $\text{BaFe}_2\text{As}_2$ .	3.2	27
27	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, .	3.2	27
28	Crossover from Collective to Incoherent Spin Excitations in Superconducting Cuprates Probed by Detuned Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2017, 119, 097001.	7.8	26
29	Electron doping dependence of the anisotropic superconductivity in $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2017, 95, 100501.	3.2	24
30	Uniaxial pressure effect on the magnetic ordered moment and transition temperatures in $\text{BaFe}_2\text{As}_2$ .		

#	ARTICLE	IF	CITATIONS
37	scattering studies of spin excitations in superconducting $RbFe_{1-x}Fe_xAs_2$ . Physical Review B, 2015, 92, .	3.2	18
38	Energy dependence of the spin excitation anisotropy in uniaxial-strained $BaFe_{1.9}Ni_{0.1}As_2$ . Physical Review B, 2015, 92, .	3.2	18
39	Local and collective magnetism of $EuFe_2As_2$ . Physical Review B, 2017, 95, .	3.2	18
40	Effect of the in-plane magnetic field on the neutron spin resonance in optimally doped $FeSe_{0.4}Te_{0.6}$ and $BaFe_{1.9}Ni_{0.1}As_2$ superconductors. Physical Review B, 2011, 84, .	3.2	17
41	Spin anisotropy due to spin-orbit coupling in optimally hole-doped $BaKFe_{1-x}As_2$ . Physical Review B, 2016, 94, .	3.2	17
42	Possible Dirac quantum spin liquid in the kagome quantum antiferromagnet $\chi Cu_3Cl_2(OH)_6$ .		

#	ARTICLE	IF	CITATIONS
55	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.	7.1	9
56	Scaling of the physical properties in Ba(Fe,Ni)2As2 single crystals: Evidence for quantum fluctuations. Physical Review B, 2012, 85, .	3.2	8
57	In-plane uniaxial pressure-induced out-of-plane antiferromagnetic moment and critical fluctuations in BaFe2As2. Nature Communications, 2020, 11, 5728.	12.8	8
58	Effect of temperature on the La1-xCaxMnO3/SrTiO3:Nb (x=0-0.75) heterojunctions. Applied Physics Letters, 2010, 97, 022502.	3.3	7
59	Electronic specific heat in $\text{BaFe}_{1-x}\text{Ni}_x\text{As}_2$ . Physical Review B, 2016, 93, .	3.2	7
60	Direct observation of spin excitation anisotropy in the paramagnetic orthorhombic state of $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ . Physical Review B, 2018, 97, .	3.2	7
61	Plaquette instability competing with bicollinear ground state in detwinned FeTe. Physical Review B, 2019, 100, .	3.2	7
62	Strain-Induced Spin-Nematic State and Nematic Susceptibility Arising from $\text{Fe}_2\text{As}_2$ Clusters in $\text{BaFe}_{1-x}\text{Ni}_x\text{As}_2$ . Physical Review Letters, 2019, 123, 247205.	7.8	7
63	Vibrational resonant inelastic X-ray scattering in liquid acetic acid: a ruler for molecular chain lengths. Scientific Reports, 2021, 11, 4098.	3.3	7
64	Electron-boson coupling and two superconducting gaps in optimally electron-doped $\text{BaFe}_{1.9}\text{Ni}_{0.1}\text{As}_2$ single crystals. Physical Review B, 2012, 86, .	3.2	6
65	Critical and Gaussian conductivity fluctuations in a $\text{BaFe}_{1.9}\text{Ni}_{0.1}\text{As}_2$ superconductor. Superconductor Science and Technology, 2013, 26, 125019.	3.5	6
66	Direct measurement of the temperature dependence of the magnetic penetration depth in $\text{Ba}(\text{Fe}_{1-x}\text{Ni}_x)_2\text{As}_2$ superconductors. Superconductor Science and Technology, 2014, 27, 055015.	3.5	6
67	Neutron spin resonance as a probe of superconducting gap anisotropy in partially detwinned electron underdoped $\text{NaFe}_{0.985}\text{Co}_{0.015}\text{As}$ . Physical Review B, 2015, 91, .	3.2	6
68	Temperature and polarization dependence of low-energy magnetic fluctuations in nearly optimally doped $\text{NaFe}_{0.9785}\text{Co}_{0.0215}\text{As}$ . Physical Review B, 2017, 96, .	3.2	6
69	Spin-isotropic continuum of spin excitations in antiferromagnetically ordered $\text{Fe}_{1.07}\text{Te}$ . Physical Review B, 2018, 97, .	3.2	6
70	Elastic anomalies in $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ crystals. Physica C: Superconductivity and Its Applications, 2012, 483, 207-212.	1.2	5
71	Electronic and magnetic excitations in the half-stuffed Cu-O planes of $\text{Ba}_{1-x}\text{Cu}_x\text{Fe}_{1-x}\text{As}_2$ measured by resonant inelastic x-ray scattering. Physical Review B, 2017, 96, .	3.2	5
72	Superconducting gap symmetry in the superconductor $\text{BaFe}_{1.9}\text{Ni}_{0.1}\text{As}_2$ . Physical Review B, 2018, 97, .	3.2	5

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73	Anisotropic magnetic excitations of a frustrated bilinear-biquadratic spin model: Implications for spin waves of detwinned iron pnictides. <i>Physical Review B</i> , 2020, 101, .	3.2	5
74	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. <i>Journal of Applied Physics</i> , 2011, 109, 07C729.	2.5	4
75	Versatile Tunability of the Metal Insulator Transition in (TiO <sub>2</sub> ) <sub>m</sub> (VO <sub>2</sub> ) <sub>m</sub> Superlattices. <i>Advanced Functional Materials</i> , 2020, 30, 2004914.	14.9	4
76	Strong local moment antiferromagnetic spin fluctuations in V-doped LiFeAs. <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	4
77	Large increase of the anisotropy factor in the overdoped region of Ba(Fe <sub>1-x</sub> Ni <sub>x</sub> ) <sub>2</sub> As <sub>2</sub> as probed by fluctuation spectroscopy. <i>Superconductor Science and Technology</i> , 2015, 28, 075004.	3.5	3
78	Doping Induced Gap Anisotropy in Iron-Based Superconductors: a Point-Contact Andreev Reflection Study of BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> Single Crystals. <i>Chinese Physics Letters</i> , 2015, 32, 077401.	3.3	3
79	Spin dynamics in NaFeAs and $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{NaFe} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.53$ probed by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2021, 103, .	3.0	3
80	Surface impedance of BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> crystals. <i>Solid State Communications</i> , 2014, 185, 10-13.	1.9	2
81	Magnetoresistivity and filamentary superconductivity in nickel-doped BaFe <sub>2-x</sub> As <sub>2</sub> . <i>Chinese Physics B</i> , 2016, 25, 047401.	1.4	2
82	Hydrogen bond effects in multimode nuclear dynamics of acetic acid observed via resonant x-ray scattering. <i>Journal of Chemical Physics</i> , 2021, 154, 214304.	3.0	2
83	Cuts through the manifold of molecular H <sub>2</sub> O potential energy surfaces in liquid water at ambient conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	2
84	Paramagnetic spin excitations in insulating Rb <sub>0.8</sub> Fe <sub>1.6</sub> Se <sub>2</sub> . <i>Physical Review B</i> , 2013, 87, .	3.2	1
85	Surface impedance in the antiferromagnetic and superconducting states of underdoped BaFe <sub>1.93</sub> Ni <sub>0.07</sub> As <sub>2</sub> crystals. <i>Solid State Communications</i> , 2014, 192, 47-50.	1.9	1
86	Excess-iron driven spin glass phase in Fe <sub>1+y</sub> Te <sub>1-x</sub> Se <sub>x</sub> . <i>Chinese Physics B</i> , 2021, 30, 087402.	1.4	1
87	Charge ordering in Ir dimers in the ground state of Ba <sub>5</sub> AlIr <sub>2</sub> O <sub>11</sub> . <i>Physical Review B</i> , 2022, 105, .	3.2	1
88	Quantum spin Hall effect in the topological material $\text{Ba}_5\text{AlIr}_2\text{O}_{11}$ . <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2022, .	3.2	1
89	Magnetic fluctuations in BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> superconductors. <i>Solid State Communications</i> , 2017, 267, 48-52.	1.9	0
90	Angular-dependent magnetic torque in iron-pnictide BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> . <i>International Journal of Modern Physics B</i> , 2017, 31, 1750005.	2.0	0

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91	Iron-Based Superconductors. Springer Theses, 2017, , 9-27.	0.1	0
92	Nematic Spin Correlations in Detwinned BaFe $_{2-x}$ Ni $_x$ As $_2$ . Springer Theses, 2017, , 81-99.	0.1	0
93	Motivation and Overview. Springer Theses, 2017, , 1-7.	0.1	0
94	Phase Diagram and Avoided Quantum Criticality in BaFe $_{2-x}$ Ni $_x$ As $_2$ . Springer Theses, 2017, , 51-66.	0.1	0