

Xingye Lu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

1,848
citations

24
h-index

40
g-index

99
ext. papers

2,214
ext. citations

5.2
avg, IF

4.24
L-index

#	Paper	IF	Citations
91	Spinon Fermi Surface Spin Liquid in a Triangular Lattice Antiferromagnet NaYbSe ₂ . <i>Physical Review X</i> , 2021 , 11,	9.1	3
90	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	3.9	0
89	Vibrational resonant inelastic X-ray scattering in liquid acetic acid: a ruler for molecular chain lengths. <i>Scientific Reports</i> , 2021 , 11, 4098	4.9	5
88	Excess-iron driven spin glass phase in Fe _{1+y} Te _{1-x} Se _x . <i>Chinese Physics B</i> , 2021 , 30, 087402	1.2	
87	Strong local moment antiferromagnetic spin fluctuations in V-doped LiFeAs. <i>Npj Quantum Materials</i> , 2020 , 5,	5	3
86	Doping evolution of the charge excitations and electron correlations in electron-doped superconducting La _{2-x} Ce _x CuO ₄ . <i>Npj Quantum Materials</i> , 2020 , 5,	5	14
85	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,	3.3	3
84	Versatile Tunability of the Metal Insulator Transition in (TiO ₂) _m /(VO ₂) _m Superlattices. <i>Advanced Functional Materials</i> , 2020 , 30, 2004914	15.6	1
83	In-plane uniaxial pressure-induced out-of-plane antiferromagnetic moment and critical fluctuations in BaFeAs. <i>Nature Communications</i> , 2020 , 11, 5728	17.4	2
82	Spin fluctuation anisotropy as a probe of orbital-selective hole-electron quasiparticle excitations in detwinned Ba(Fe _{1-x} Cox) ₂ As ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	7
81	Doping Dependence of the Second Magnetization Peak, Critical Current Density, and Pinning Mechanism in BaFe _{2-x} NixAs ₂ Pnictide Superconductors. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 179-188	4	6
80	Anisotropic spin fluctuations in detwinned FeSe. <i>Nature Materials</i> , 2019 , 18, 709-716	27	32
79	Probing hydrogen bond strength in liquid water by resonant inelastic X-ray scattering. <i>Nature Communications</i> , 2019 , 10, 1013	17.4	42
78	What Triggers Oxygen Loss in Oxygen Redox Cathode Materials?. <i>Chemistry of Materials</i> , 2019 , 31, 3293-3300	9.0	90
77	Electronic localization in CaVO ₃ films via bandwidth control. <i>Npj Quantum Materials</i> , 2019 , 4,	5	10
76	Plaquette instability competing with bicollinear ground state in detwinned FeTe. <i>Physical Review B</i> , 2019 , 100,	3.3	5
75	Compatibility of quantitative X-ray spectroscopy with continuous distribution models of water at ambient conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 4058-4063	11.5	38

74	Reply to Petterson et al.: Why X-ray spectral features are compatible to continuous distribution models in ambient water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17158-17159	11.5	5
73	Reciprocity between local moments and collective magnetic excitations in the phase diagram of BaFe ₂ (As _{1-x} Px) ₂ . <i>Communications Physics</i> , 2019 , 2,	5.4	6
72	Strain-Induced Spin-Nematic State and Nematic Susceptibility Arising from 2D Fe Clusters in KFe _{{0.8}Ag_{1.2}Te_{2}} . <i>Physical Review Letters</i> , 2019 , 123, 247205	7.4	3
71	Direct observation of spin excitation anisotropy in the paramagnetic orthorhombic state of BaFe _{2-x} NixAs ₂ . <i>Physical Review B</i> , 2018 , 97,	3.3	6
70	Resonant inelastic x-ray scattering studies of magnons and bimagnons in the lightly doped cuprate La _{2-x} SrxCuO ₄ . <i>Physical Review B</i> , 2018 , 97,	3.3	15
69	Spin-isotropic continuum of spin excitations in antiferromagnetically ordered Fe _{1.07} Te. <i>Physical Review B</i> , 2018 , 97,	3.3	6
68	Oxygen redox chemistry without excess alkali-metal ions in Na[MgMn]O. <i>Nature Chemistry</i> , 2018 , 10, 288-295	17.6	281
67	Dispersive magnetic and electronic excitations in iridate perovskites probed by oxygen K-edge resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2018 , 97,	3.3	16
66	Spin Waves in Detwinned BaFe _{{2}As_{2}} . <i>Physical Review Letters</i> , 2018 , 121, 067002	7.4	14
65	Superconducting gap symmetry in the superconductor BaFe _{1.9} Ni _{0.1} As ₂ . <i>Physical Review B</i> , 2018 , 97,	3.3	3
64	Uniaxial pressure effect on the magnetic ordered moment and transition temperatures in BaFe _{2-x} TxAs ₂ (T=Co,Ni). <i>Physical Review B</i> , 2017 , 95,	3.3	20
63	Doping Evolution of Magnetic Order and Magnetic Excitations in (Sr _{{1-x}La_{x}}) _{{3}Ir_{2}O_{7}} . <i>Physical Review Letters</i> , 2017 , 118, 027202	7.4	25
62	Local and collective magnetism of EuFe ₂ As ₂ . <i>Physical Review B</i> , 2017 , 95,	3.3	11
61	Electronic and magnetic excitations in the half-stuffed Cu-O planes of Ba ₂ Cu ₃ O ₄ Cl ₂ measured by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2017 , 96,	3.3	5
60	Damped spin excitations in a doped cuprate superconductor with orbital hybridization. <i>Physical Review B</i> , 2017 , 95,	3.3	10
59	Two-Dimensional Massless Dirac Fermions in Antiferromagnetic AFe _{{2}As_{2}} (A=Ba,Sr). <i>Physical Review Letters</i> , 2017 , 119, 096401	7.4	16
58	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	7.4	20
57	Magnetic fluctuations in BaFe _{2-x} Ni _x As ₂ superconductors. <i>Solid State Communications</i> , 2017 , 267, 48-52	1.6	

56	Spin excitation anisotropy in the paramagnetic tetragonal phase of BaFe ₂ As ₂ . <i>Physical Review B</i> , 2017 , 96,	3-3	9
55	Temperature and polarization dependence of low-energy magnetic fluctuations in nearly optimally doped NaFe _{0.9785} Co _{0.0215} As. <i>Physical Review B</i> , 2017 , 96,	3-3	3
54	Angular-dependent magnetic torque in iron-pnictide BaFe _{2-x} Ni _x As ₂ . <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750005	1.1	
53	Zone plates as imaging analyzers for resonant inelastic x-ray scattering. <i>Optics Express</i> , 2017 , 25, 15624-15634	3-5	8
52	Iron-Based Superconductors. <i>Springer Theses</i> , 2017 , 9-27	0.1	
51	Short-Range Cluster Spin Glass Near Optimal Superconductivity in BaFe _(2-x) Ni _(x) As ₍₂₎ . <i>Springer Theses</i> , 2017 , 67-79	0.1	
50	Magnetic Excitations in Overdoped BaFe _(2-x) Ni _(x) As ₍₂₎ . <i>Springer Theses</i> , 2017 , 101-118	0.1	
49	Nematic Spin Correlations in Detwinned BaFe _(2-x) Ni _(x) As ₍₂₎ . <i>Springer Theses</i> , 2017 , 81-99	0.1	
48	Motivation and Overview. <i>Springer Theses</i> , 2017 , 1-7	0.1	
47	Phase Diagram and Avoided Quantum Criticality in BaFe _(2-x) Ni _(x) As ₍₂₎ . <i>Springer Theses</i> , 2017 , 51-66	0.1	
46	Effect of Nematic Order on the Low-Energy Spin Fluctuations in Detwinned BaFe _{1.935} Ni _{0.065} As _{2} . <i>Physical Review Letters</i> , 2016 , 117, 227003	7-4	19
45	Electronic specific heat in BaFe _{2-x} Ni _x As ₂ . <i>Physical Review B</i> , 2016 , 93,	3-3	4
44	Impact of uniaxial pressure on structural and magnetic phase transitions in electron-doped iron pnictides. <i>Physical Review B</i> , 2016 , 93,	3-3	24
43	Spin anisotropy due to spin-orbit coupling in optimally hole-doped Ba _{0.67} K _{0.33} Fe ₂ As ₂ . <i>Physical Review B</i> , 2016 , 94,	3-3	15
42	Nematic Quantum Critical Fluctuations in BaFe _(2-x) Ni _(x) As ₍₂₎ . <i>Physical Review Letters</i> , 2016 , 117, 157002	7-4	24
41	Nodeless superconductivity in the presence of spin-density wave in pnictide superconductors: The case of BaFe _{2-x} Ni _x As ₂ . <i>Physical Review B</i> , 2015 , 91,	3-3	21
40	Structural and Magnetic Phase Transitions near Optimal Superconductivity in BaFe ₂ (As _(1-x) P _x) ₂ . <i>Physical Review Letters</i> , 2015 , 114, 157002	7-4	42
39	Doping Induced Gap Anisotropy in Iron-Based Superconductors: a Point-Contact Andreev Reflection Study of BaFe _{2-x} Ni _x As ₂ Single Crystals. <i>Chinese Physics Letters</i> , 2015 , 32, 077401	1.8	2

38	Doping evolution of antiferromagnetism and transport properties in nonsuperconducting BaFe ₂ □ _x Ni _x Cr _x As ₂ . <i>Physical Review B</i> , 2015 , 91,	3-3	11
37	Neutron spin resonance as a probe of superconducting gap anisotropy in partially detwinned electron underdoped NaFe _{0.985} Co _{0.015} As. <i>Physical Review B</i> , 2015 , 91,	3-3	6
36	Electronic nematic correlations in the stress-free tetragonal state of BaFe ₂ □NixAs ₂ . <i>Physical Review B</i> , 2015 , 92,	3-3	27
35	Electron doping dependence of the anisotropic superconductivity in BaFe ₂ □NixAs ₂ . <i>Physical Review B</i> , 2015 , 92,	3-3	20
34	Energy dependence of the spin excitation anisotropy in uniaxial-strained BaFe _{1.9} Ni _{0.1} As ₂ . <i>Physical Review B</i> , 2015 , 92,	3-3	16
33	Large increase of the anisotropy factor in the overdoped region of Ba(Fe _{1-x} Ni _x) ₂ As ₂ as probed by fluctuation spectroscopy. <i>Superconductor Science and Technology</i> , 2015 , 28, 075004	3-1	3
32	The effect of Cr impurity to superconductivity in electron-doped BaFe ₂ □NixAs ₂ . <i>Superconductor Science and Technology</i> , 2014 , 27, 115003	3-1	11
31	Superconductivity. Nematic spin correlations in the tetragonal state of uniaxial-strained BaFe _{(2-x)Ni(x)As} . <i>Science</i> , 2014 , 345, 657-60	33-3	144
30	Surface impedance of BaFe ₂ □NixAs ₂ crystals. <i>Solid State Communications</i> , 2014 , 185, 10-13	1-6	2
29	Surface impedance in the antiferromagnetic and superconducting states of underdoped BaFe _{1.93} Ni _{0.07} As ₂ crystals. <i>Solid State Communications</i> , 2014 , 192, 47-50	1-6	1
28	Direct measurement of the temperature dependence of the magnetic penetration depth in Ba(Fe ₁ □Nix) ₂ As ₂ superconductors. <i>Superconductor Science and Technology</i> , 2014 , 27, 055015	3-1	5
27	Short-range cluster spin glass near optimal superconductivity in BaFe ₂ □NixAs ₂ . <i>Physical Review B</i> , 2014 , 90,	3-3	40
26	Avoided quantum criticality and magnetoelastic coupling in BaFe _{(2-x)Ni(x)As} . <i>Physical Review Letters</i> , 2013 , 110, 257001	7-4	57
25	Spin excitation anisotropy as a probe of orbital ordering in the paramagnetic tetragonal phase of superconducting BaFe _{1.904} Ni _{0.096} As ₂ . <i>Physical Review Letters</i> , 2013 , 111, 107006	7-4	48
24	Doping dependence of spin excitations and its correlations with high-temperature superconductivity in iron pnictides. <i>Nature Communications</i> , 2013 , 4, 2874	17-4	82
23	Distinguishing s _B and s ₊₊ electron pairing symmetries by neutron spin resonance in superconducting NaFe _{0.935} Co _{0.045} As. <i>Physical Review B</i> , 2013 , 88,	3-3	42
22	Paramagnetic spin excitations in insulating Rb _{0.8} Fe _{1.6} Se ₂ . <i>Physical Review B</i> , 2013 , 87,	3-3	1
21	Electron doping evolution of the magnetic excitations in BaFe ₂ □NixAs ₂ . <i>Physical Review B</i> , 2013 , 88,	3-3	35

20	Uniaxial pressure effect on structural and magnetic phase transitions in NaFeAs and its comparison with as-grown and annealed BaFe ₂ As ₂ . <i>Physical Review B</i> , 2013 , 87,	3-3	30
19	Vortex dynamics as a function of field orientation in BaFe _{1.9} Ni _{0.1} As ₂ . <i>Superconductor Science and Technology</i> , 2013 , 26, 025006	3-1	7
18	Measurements of the fluctuation-induced in-plane magnetoconductivity at high reduced temperatures and magnetic fields in the iron arsenide BaFe _{2-x} Ni _x As ₂ . <i>Superconductor Science and Technology</i> , 2013 , 26, 055004	3-1	11
17	Critical and Gaussian conductivity fluctuations in a BaFe _{1.9} Ni _{0.1} As ₂ superconductor. <i>Superconductor Science and Technology</i> , 2013 , 26, 125019	3-1	3
16	Coexistence and competition of the short-range incommensurate antiferromagnetic order with the superconducting state of BaFe _(2-x) Ni _(x) As ₂ . <i>Physical Review Letters</i> , 2012 , 108, 247002	7-4	76
15	Polarized neutron scattering studies of magnetic excitations in electron-overdoped superconducting BaFe _{1.85} Ni _{0.15} As ₂ . <i>Physical Review B</i> , 2012 , 85,	3-3	25
14	Electron doping evolution of the anisotropic spin excitations in BaFe _{2-x} Ni _x As ₂ . <i>Physical Review B</i> , 2012 , 86,	3-3	40
13	Elastic anomalies in BaFe _{2-x} Ni _x As ₂ crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 483, 207-212	1-3	4
12	Electron-boson coupling and two superconducting gaps in optimally electron-doped BaFe _{1.9} Ni _{0.1} As ₂ single crystals. <i>Physical Review B</i> , 2012 , 86,	3-3	5
11	Neutron scattering studies of spin excitations in superconducting Rb _{0.82} Fe _{1.68} Se ₂ . <i>Physical Review B</i> , 2012 , 86,	3-3	16
10	Scaling of the physical properties in Ba(Fe,Ni) ₂ As ₂ single crystals: Evidence for quantum fluctuations. <i>Physical Review B</i> , 2012 , 85,	3-3	7
9	Systematic growth of BaFe _{2-x} Ni _x As ₂ large crystals. <i>Superconductor Science and Technology</i> , 2011 , 24, 065004	3-1	48
8	Buffer-layer-enhanced magnetic field effect in La _{0.5} Ca _{0.5} MnO ₃ /LaMnO ₃ /SrTiO ₃ :Nb heterojunctions. <i>Journal of Applied Physics</i> , 2011 , 109, 07C729	2-5	4
7	Fishtail and vortex dynamics in the Ni-doped iron pnictide BaFe _{1.82} Ni _{0.18} As ₂ . <i>Physical Review B</i> , 2011 , 84,	3-3	20
6	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. <i>Physical Review B</i> , 2011 , 84,	3-3	14
5	Antiferromagnetic order and superlattice structure in nonsuperconducting and superconducting RbFe _{1.6+x} Se ₂ . <i>Physical Review B</i> , 2011 , 84,	3-3	53
4	Normal-state hourglass dispersion of the spin excitations in FeSe _x Te _(1-x) . <i>Physical Review Letters</i> , 2010 , 105, 157002	7-4	29
3	Effect of temperature on the La _{1-x} Ca _x MnO ₃ /SrTiO ₃ :Nb (x=0.75) heterojunctions. <i>Applied Physics Letters</i> , 2010 , 97, 022502	3-4	5

2 Spin-excitation anisotropy in the nematic state of detwinned FeSe 2

1 Spin-excitation anisotropy in the nematic state of detwinned FeSe. *Nature Physics*, 16.2 1