

Xingye Lu

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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	Oxygen redox chemistry without excess alkali-metal ions in Na[MgMn]O. <i>Nature Chemistry</i> , 2018 , 10, 288-295	17.6	281
90	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
89	What Triggers Oxygen Loss in Oxygen Redox Cathode Materials?. <i>Chemistry of Materials</i> , 2019 , 31, 3293-3300	3.6	90
88	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
87	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
86	Avoided quantum criticality and magnetoelastic coupling in BaFe(2-x)Ni(x)As ₂ . <i>Physical Review Letters</i> , 2013 , 110, 257001	7.4	57
85	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
84	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
83	Systematic growth of BaFe _{2-x} Ni _x As ₂ large crystals. <i>Superconductor Science and Technology</i> , 2011 , 24, 065004	3.1	48
82	Probing hydrogen bond strength in liquid water by resonant inelastic X-ray scattering. <i>Nature Communications</i> , 2019 , 10, 1013	17.4	42
81	Structural and Magnetic Phase Transitions near Optimal Superconductivity in BaFe ₂ (As(1-x)Px) ₂ . <i>Physical Review Letters</i> , 2015 , 114, 157002	7.4	42
80	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
79	Short-range cluster spin glass near optimal superconductivity in BaFe _{2-x} Ni _x As ₂ . <i>Physical Review B</i> , 2014 , 90,	3.3	40
78	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
77	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
76	Electron doping evolution of the magnetic excitations in BaFe _{2-x} Ni _x As ₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	35
75	Anisotropic spin fluctuations in detwinned FeSe. <i>Nature Materials</i> , 2019 , 18, 709-716	27	32

74	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
73	Normal-state hourglass dispersion of the spin excitations in FeSexTe(1-x). <i>Physical Review Letters</i> , 2010 , 105, 157002	7-4	29
72	Electronic nematic correlations in the stress-free tetragonal state of BaFe ₂ NixAs ₂ . <i>Physical Review B</i> , 2015 , 92,	3-3	27
71	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
70	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
69	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
68	Nematic Quantum Critical Fluctuations in BaFe _{2-x} Ni _x As ₂ . <i>Physical Review Letters</i> , 2016 , 117, 157002	7-4	24
67	Nodeless superconductivity in the presence of spin-density wave in pnictide superconductors: The case of BaFe ₂ NixAs ₂ . <i>Physical Review B</i> , 2015 , 91,	3-3	21
66	Uniaxial pressure effect on the magnetic ordered moment and transition temperatures in BaFe ₂ TxAs ₂ (T=Co,Ni). <i>Physical Review B</i> , 2017 , 95,	3-3	20
65	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
64	Electron doping dependence of the anisotropic superconductivity in BaFe ₂ NixAs ₂ . <i>Physical Review B</i> , 2015 , 92,	3-3	20
63	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
62	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
61	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
60	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
59	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
58	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
57	Resonant inelastic x-ray scattering studies of magnons and bimagnons in the lightly doped cuprate La ₂ SrxCuO ₄ . <i>Physical Review B</i> , 2018 , 97,	3-3	15

56	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
55	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
54	Spin Waves in Detwinned BaFe ₂ As ₂ . <i>Physical Review Letters</i> , 2018 , 121, 067002	7-4	14
53	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
52	Local and collective magnetism of EuFe ₂ As ₂ . <i>Physical Review B</i> , 2017 , 95,	3-3	11
51	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
50	The effect of Cr impurity to superconductivity in electron-doped BaFe _{2-x} Ni _x As ₂ . <i>Superconductor Science and Technology</i> , 2014 , 27, 115003	3-1	11
49	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
48	Damped spin excitations in a doped cuprate superconductor with orbital hybridization. <i>Physical Review B</i> , 2017 , 95,	3-3	10
47	Electronic localization in CaVO ₃ films via bandwidth control. <i>Npj Quantum Materials</i> , 2019 , 4,	5	10
46	Spin excitation anisotropy in the paramagnetic tetragonal phase of BaFe ₂ As ₂ . <i>Physical Review B</i> , 2017 , 96,	3-3	9
45	Zone plates as imaging analyzers for resonant inelastic x-ray scattering. <i>Optics Express</i> , 2017 , 25, 15624-15634	3-5	8
44	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
43	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
42	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
41	Doping Dependence of the Second Magnetization Peak, Critical Current Density, and Pinning Mechanism in BaFe _{2-x} Ni _x As ₂ Pnictide Superconductors. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 179-188	4	6
40	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
39	Direct observation of spin excitation anisotropy in the paramagnetic orthorhombic state of BaFe _{2-x} Ni _x As ₂ . <i>Physical Review B</i> , 2018 , 97,	3-3	6

38	Spin-isotropic continuum of spin excitations in antiferromagnetically ordered Fe _{1.07} Te. <i>Physical Review B</i> , 2018 , 97,	3-3	6
37	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
36	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
35	Plaquette instability competing with bicollinear ground state in detwinned FeTe. <i>Physical Review B</i> , 2019 , 100,	3-3	5
34	Direct measurement of the temperature dependence of the magnetic penetration depth in Ba(Fe _{1-x} Nix) ₂ As ₂ superconductors. <i>Superconductor Science and Technology</i> , 2014 , 27, 055015	3-1	5
33	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
32	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
31	Reply to Pettersson 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
30	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
29	Electronic specific heat in BaFe _{2-x} NixAs ₂ . <i>Physical Review B</i> , 2016 , 93,	3-3	4
28	Elastic anomalies in BaFe _{2-x} NixAs ₂ crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 483, 207-212	1-3	4
27	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
26	Strong local moment antiferromagnetic spin fluctuations in V-doped LiFeAs. <i>Npj Quantum Materials</i> , 2020 , 5,	5	3
25	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
24	Superconducting gap symmetry in the superconductor BaFe _{1.9} Ni _{0.1} As ₂ . <i>Physical Review B</i> , 2018 , 97,	3-3	3
23	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
22	Large increase of the anisotropy factor in the overdoped region of Ba(Fe _{1-x} Nix) ₂ As ₂ as probed by fluctuation spectroscopy. <i>Superconductor Science and Technology</i> , 2015 , 28, 075004	3-1	3
21	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

20	Spinon Fermi Surface Spin Liquid in a Triangular Lattice Antiferromagnet NaYbSe ₂ . <i>Physical Review X</i> , 2021 , 11,	9.1	3
19	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
18	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
17	Surface impedance of BaFe _{2-x} Ni _x As ₂ crystals. <i>Solid State Communications</i> , 2014 , 185, 10-13	1.6	2
16	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
15	Spin-excitation anisotropy in the nematic state of detwinned FeSe		2
14	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
13	Paramagnetic spin excitations in insulating Rb _{0.8} Fe _{1.6} Se ₂ . <i>Physical Review B</i> , 2013 , 87,	3.3	1
12	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
11	Spin-excitation anisotropy in the nematic state of detwinned FeSe. <i>Nature Physics</i> ,	16.2	1
10	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
9	Magnetic fluctuations in BaFe _{2-x} Ni _x As ₂ superconductors. <i>Solid State Communications</i> , 2017 , 267, 48-52	1.6	
8	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	
7	Iron-Based Superconductors. <i>Springer Theses</i> , 2017 , 9-27	0.1	
6	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	
5	Magnetic Excitations in Overdoped BaFe _(2-x) Ni _(x) As ₍₂₎ . <i>Springer Theses</i> , 2017 , 101-118	0.1	
4	Nematic Spin Correlations in Detwinned BaFe _(2-x) Ni _(x) As ₍₂₎ . <i>Springer Theses</i> , 2017 , 81-99	0.1	
3	Motivation and Overview. <i>Springer Theses</i> , 2017 , 1-7	0.1	

2 Phase Diagram and Avoided Quantum Criticality in $\text{BaFe}_{(2-x)}\text{Ni}_x\text{As}_2$. *Springer Theses*, **2017**, 51-66.1

1 Excess-iron driven spin glass phase in $\text{Fe}_{1+y}\text{Te}_{1-x}\text{Se}_x$. *Chinese Physics B*, **2021**, 30, 087402 1.2