Shiliang Li

List of Publications by Citations

134 papers	4,317 citations	34 h-index	62 g-index
147 ext. papers	4,766 ext. citations	5 avg, IF	4.82 L-index

#	Paper	IF	Citations
134	Structural and magnetic phase diagram of CeFeAsO(1- x)F(x) and its relation to high-temperature superconductivity. *Nature Materials*, **2008**, 7, 953-9	27	657
133	First-order magnetic and structural phase transitions in Fe1+ySexTe1. *Physical Review B*, **2009**, 79,	3.3	455
132	Spin waves and magnetic exchange interactions in CaFe2As2. *Nature Physics*, **2009**, 5, 555-560	16.2	331
131	Low energy spin waves and magnetic interactions in SrFe2As2. *Physical Review Letters*, **2008**, 101, 167203	7.4	152
130	Materials and Novel Superconductivity in Iron Pnictide Superconductors. *Annual Review of Condensed Matter Physics*, **2011**, 2, 121-140	19.7	141
129	Structural and magnetic phase transitions in Na1FeAs. *Physical Review B*, **2009**, 80,	3.3	132
128	Resonance in the electron-doped high-transition-temperature superconductor Pr0.88LaCe0.12CuO4-delta. *Nature*, **2006**, 442, 59-62	50.4	100
127	Microscopic annealing process and its impact on superconductivity in T structure electron-doped copper oxides. *Nature Materials*, **2007**, 6, 224-9	27	86
126	Suppression of superconducting critical current density by small flux jumps in MgB2 thin films. *Physical Review B*, **2002**, 65,	3.3	78
125	Coexistence and competition of the short-range incommensurate antiferromagnetic order with the superconducting state of BaFe(2-x)Ni(x)As2. *Physical Review Letters*, **2012**, 108, 247002	7.4	76
124	Gapped Spin-1/2 Spinon Excitations in a New Kagome Quantum Spin Liquid Compound Cu 3 Zn(OH) 6 FBr. *Chinese Physics Letters*, **2017**, 34, 077502	1.8	69
123	Electron-doping evolution of the low-energy spin excitations in the iron arsenide superconductor BaFe2NixAs2. *Physical Review B*, **2010**, 81,	3.3	69
122	A distinct bosonic mode in an electron-doped high-transition-temperature superconductor. *Nature*, **2007**, 450, 1058-61	50.4	64
121	Magnetic quantum oscillations in YBa2Cu3O6.61 and YBa2Cu3O6.69 in fields of up to 85 T: patching the hole in the roof of the superconducting dome. *Physical Review Letters*, **2010**, 104, 086403	7.4	59
120	Spin gap and magnetic resonance in superconducting BaFe1.9Ni0.1As2. *Physical Review B*, **2009**, 79,	3.3	59
119	Lattice distortion and magnetic quantum phase transition in CeFeAs(1-x)P(x)O. *Physical Review Letters*, **2010**, 104, 017204	7.4	57
118	Crystalline electric field as a probe for long-range antiferromagnetic order and superconducting state of CeFeAsO(1-x)F(x). *Physical Review Letters*, **2008**, 101, 217002	7.4	54

117	Antiferromagnetic order and superlattice structure in nonsuperconducting and superconducting RbyFe1.6+xSe2. *Physical Review B*, **2011**, 84,	3.3	53
116	High-energy spin excitations in the electron-doped superconductor Pr(0.88)LaCe(0.12)CuO(4-delta) with T(c) = 21 K. *Physical Review Letters*, **2006**, 96, 157001	7.4	50
115	Spin excitation anisotropy as a probe of orbital ordering in the paramagnetic tetragonal phase of superconducting BaFe1.904Ni0.09As2. *Physical Review Letters*, **2013**, 111, 107006	7.4	48
114	Systematic growth of BaFe2 NixAs2large crystals. *Superconductor Science and Technology*, **2011**, 24, 065004	3.1	48
113	Evidence of a spin resonance mode in the iron-based superconductor Ba(0.6)K(0.4)Fe2As2 from scanning tunneling spectroscopy. *Physical Review Letters*, **2012**, 108, 227002	7.4	45
112	Hole doping dependence of the coherence length in La 2 x Sr x CuO 4 thin films. *Europhysics Letters*, **2003**, 64, 790-796	1.6	45
111	Linear temperature dependence of lower critical field in MgB2. *Physical Review B*, **2001**, 64,	3.3	43
110	Structural and Magnetic Phase Transitions near Optimal Superconductivity in BaFe2(As(1-x)Px)2. *Physical Review Letters*, **2015**, 114, 157002	7.4	42
109	Distinguishing s and s++ electron pairing symmetries by neutron spin resonance in superconducting NaFe0.935Co0.045As. *Physical Review B*, **2013**, 88,	3.3	42
108	Electron doping evolution of the anisotropic spin excitations in BaFe2NixAs2. *Physical Review B*, **2012**, 86,	3.3	40
107	Distinct pairing symmetries in Nd1.85Ce0.15CuO4 and La1.89Sr0.11CuO4 single crystals: Evidence from comparative tunneling measurements. *Physical Review B*, **2005**, 72,	3.3	40
106	Neutron-spin resonance in the optimally electron-doped superconductor Nd1.85Ce0.15CuO4-delta. *Physical Review Letters*, **2007**, 99, 017001	7.4	39
105	Flux dynamics and vortex phase diagram of the new superconductor MgB2. *Physica C: Superconductivity and Its Applications*, **2001**, 363, 170-178	1.3	38
104	Evolution of low-energy spin dynamics in the electron-doped high-transition-temperature superconductor Pr0.88LaCe0.12CuO4*Physical Review B*, **2006**, 74,	3.3	36
103	Effects of Al doping on the superconducting and structural properties of MgB2. *Physica C: Superconductivity and Its Applications*, **2003**, 386, 611-615	1.3	36
102	Magnetic relaxation and critical current density of MgB2 thin films. *Physical Review B*, **2001**, 64,	3.3	36
101	Protonation induced high- T c phases in iron-based superconductors evidenced by NMR and magnetization measurements. *Science Bulletin*, **2018**, 63, 11-16	10.6	34
100	Transition from three-dimensional anisotropic spin excitations to two-dimensional spin excitations by electron doping the FeAs-based BaFe1.96Ni0.04As2 superconductor. *Physical Review Letters*, **2009**, 103, 087005	7.4	34

99	Dependence of the specific heat of NaxCoO2·yH2O□D2O on sodium and water concentrations. *Physical Review B*, **2005**, 72,	3.3	31
98	Unified Phase Diagram for Iron-Based Superconductors. *Physical Review Letters*, **2017**, 119, 157001	7.4	29
97	Normal-state hourglass dispersion of the spin excitations in FeSexTe(1-x). *Physical Review Letters*, **2010**, 105, 157002	7.4	29
96	Weak-coupling Bardeen-Cooper-Schrieffer superconductivity in the electron-doped cuprate superconductors. *Physical Review B*, **2008**, 77,	3.3	29
95	Competition between antiferromagnetism and superconductivity in the electron-doped cuprates triggered by oxygen reduction. *Physical Review Letters*, **2007**, 99, 157002	7.4	29
94	Strong-coupling superconductivity in NaFe1−xCoxAs: Validity of Eliashberg theory. *Physical Review B*, **2013**, 87,	3.3	27
93	Strong Quantum Fluctuation of Vortices in Bulk Samples of the New Superconductor MgB 2. *Chinese Physics Letters*, **2001**, 18, 816-819	1.8	25
92	Impact of uniaxial pressure on structural and magnetic phase transitions in electron-doped iron pnictides. *Physical Review B*, **2016**, 93,	3.3	24
91	Nematic Quantum Critical Fluctuations in BaFe_{2-x}Ni_{x}As_{2}. *Physical Review Letters*, **2016**, 117, 157002	7.4	24
90	Electron-spin excitation coupling in an electron-doped copper oxide superconductor. *Nature Physics* , **2011**, 7, 719-724	16.2	21
89	Electron doping dependence of the anisotropic superconductivity in BaFe2−xNixAs2. *Physical Review B*, **2015**, 92,	3.3	20
88	Quantum spin excitations through the metal-to-insulator crossover in YBa2Cu3O6+y. *Physical Review B*, **2008**, 77,	3.3	20
87	Possible Superconductivity at 37 K in Graphite-Sulphur Composite. *Chinese Physics Letters*, **2001**, 18, 1648-1650	1.8	20
86	Effect of Zn doping on the antiferromagnetism in kagome Cu4−xZnx(OH)6FBr. *Physical Review B*, **2018**, 98,	3.3	20
85	Effect of Nematic Order on the Low-Energy Spin Fluctuations in Detwinned BaFe_{1.935}Ni_{0.065}As_{2}. *Physical Review Letters*, **2016**, 117, 227003	7.4	19
84	Magnetic fluctuations in n-type high-Tc superconductors reveal breakdown of fermiology: Experiments and Fermi-liquid/RPA calculations. *Physical Review B*, **2007**, 76,	3.3	19
83	Odd and Even Modes of Neutron Spin Resonance in the Bilayer Iron-Based Superconductor CaKFe_{4}As_{4}. *Physical Review Letters*, **2018**, 120, 267003	7.4	18
82	Spin-charge coupling in lightly doped Nd2−xCexCuO4. *Physical Review B*, **2005**, 71,	3.3	18

81	Neutron scattering studies of spin excitations in superconducting Rb0.82Fe1.68Se2. *Physical Review B*, **2012**, 86,	3.3	16
80	From Claringbullite to a New Spin Liquid Candidate Cu 3 Zn(OH) 6 FCl. *Chinese Physics Letters*, **2018**, 36, 017502	1.8	16
79	Impact of oxygen annealing on the heat capacity and magnetic resonance of superconducting Pr0.88LaCe0.12CuO4□*Physical Review B*, **2008**, 78,	3.3	15
78	Quantum spin correlations through the superconducting-to-normal phase transition in electron-doped superconducting Pr0.88LaCe0.12CuO4-delta. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 15259-63	11.5	15
77	Neutron Spin Resonance in the 112-Type Iron-Based Superconductor. *Physical Review Letters*, **2018**, 120, 137001	7.4	14
76	Spin excitations in optimally P-doped BaFe2(As0.7P0.3)2 superconductor. *Physical Review B*, **2016**, 94,	3.3	14
75	Effect of the in-plane magnetic field on the neutron spin resonance in optimally doped FeSe0.4Te0.6 and BaFe1.9Ni0.1As2 superconductors. *Physical Review B*, **2011**, 84,	3.3	14
74	Absence of a true vortex-glass phase above the Bragg glass line in Bi2Sr2CaCu2O8+□*Physica C: Superconductivity and Its Applications*, **2003**, 390, 107-112	1.3	14
73	Crystal growth and phase diagram of 112-type iron pnictide superconductor Ca1□yLayFe1□xNixAs2. *Superconductor Science and Technology*, **2017**, 30, 095002	3.1	13
72	Superconducting fluctuations in isovalently substituted BaFe2(As1□xPx)2: Possible observation of multiband effects. *Physical Review B*, **2015**, 92,	3.3	13
71	Neutron powder diffraction study on the iron-based nitride superconductor ThFeAsN. *Europhysics Letters*, **2017**, 117, 57005	1.6	12
70	Superconductivity in WP single crystals. *Physical Review B*, **2019**, 99,	3.3	12
69	Quantum Phases of SrCu_{2}(BO_{3})_{2} from High-Pressure Thermodynamics. *Physical Review Letters*, **2020**, 124, 206602	7.4	12
68	Electron doping evolution of structural and antiferromagnetic phase transitions in NaFe1□xCoxAs iron pnictides. *Physical Review B*, **2016**, 94,	3.3	12
67	Low-temperature transport properties of Nd2□xCexCuO4+□Metal-insulator crossover in the overdoped regime. *Physical Review B*, **2002**, 65,	3.3	12
66	Intrinsic percolative superconductivity in heavily overdoped high-temperature superconductors. *Europhysics Letters*, **2002**, 57, 260-266	1.6	12
65	Anomalous magnetization transition accompanying the irreversibility line in high-temperature superconductors. *Physical Review B*, **2000**, 62, 716-720	3.3	12
64	Neutron Spin Resonance in a Quasi-Two-Dimensional Iron-Based Superconductor. *Physical Review Letters*, **2020**, 125, 117002	7.4	12

63	Doping evolution of antiferromagnetism and transport properties in nonsuperconducting BaFe2−xNixCrxAs2. *Physical Review B*, **2015**, 91,	3.3	11
62	The effect of Cr impurity to superconductivity in electron-doped BaFe2−xNixAs2. *Superconductor Science and Technology*, **2014**, 27, 115003	3.1	11
61	Spin excitation anisotropy in the optimally isovalent-doped superconductor BaFe2(As0.7P0.3)2. *Physical Review B*, **2017**, 96,	3.3	11
60	Phase separation, competition, and volume-fraction control in NaFe1−xCoxAs. *Physical Review B*, **2014**, 90,	3.3	11
59	Annealing effect on the electron-doped superconductor Pr0.88LaCe0.12CuO4−δ *Physical Review B*, **2009**, 80,	3.3	11
58	Magnetic relaxation and critical current density of the new superconductor MgB2. *Superconductor Science and Technology*, **2002**, 15, 315-319	3.1	11
57	Spectroscopic evidence of bilayer splitting and strong interlayer pairing in the superconductor KCa2Fe4As4F2. *Physical Review B*, **2020**, 101,	3.3	10
56	Magnetic form factor of SrFe2As2: Neutron diffraction measurements. *Physical Review B*, **2010**, 81,	3.3	10
55	Spin excitations and spin wave gap in the ferromagnetic Weyl semimetal Co3Sn2S2. *Science China: Physics, Mechanics and Astronomy*, **2021**, 64, 1	3.6	10
54	Low-temperature crystal and magnetic structures of the magnetoelectric material Fe4Nb2O9. *Physical Review B*, **2019**, 100,	3.3	9
53	Dimensional crossover of vortex dynamics induced by Gd substitution on Bi2212 single crystals. *Physica C: Superconductivity and Its Applications*, **2003**, 391, 169-177	1.3	9
52	Weak quantum flux creep and strong pinning in the new superconductor MgB 2. *Chinese Physics B*, **2001**, 10, 340-342		9
51	Quasi-two-dimensional behavior of 112-type iron-based superconductors. *Physical Review B*, **2017**, 96,	3.3	8
50	Distinction between the normal-state gap and superconducting gap of electron-doped cuprates. *Physical Review B*, **2008**, 78,	3.3	8
49	Modeling and simulation on the magnetization in field-cooling and zero-field-cooling processes. *Physica C: Superconductivity and Its Applications*, **1999**, 316, 293-299	1.3	8
48	Friedel Oscillations of Vortex Bound States under Extreme Quantum Limit in KCa_{2}Fe_{4}As_{4}F_{2}. *Physical Review Letters*, **2021**, 126, 257002	7.4	7
47	Phase diagram and neutron spin resonance of superconducting NaFe1−xCuxAs. *Physical Review B*, **2017**, 95,	3.3	6
46	Upper Critical Field and Irreversibility Line Determined by Transport Measurement of the New Superconductor MgB 2. *Chinese Physics Letters*, **2001**, 18, 823-825	1.8	6

45	Vortex-slush state in YBa2Cu3O7−δ thin films. *Physical Review B*, **2001**, 64,	3.3	6
44	Magnetic Phase Diagram of Cu4−x Zn x (OH)6FBr Studied by Neutron-Diffraction and μSR Techniques. *Chinese Physics Letters*, **2020**, 37, 107503	1.8	6
43	Anisotropic magnetoelastic response in the magnetic Weyl semimetal Co3Sn2S2. *Science China: Physics, Mechanics and Astronomy*, **2021**, 64, 1	3.6	6
42	Vortex-glass state in the isovalent optimally doped pnictide superconductor BaFe2(As0.68P0.32)2. *Superconductor Science and Technology*, **2017**, 30, 055003	3.1	5
41	Peak effect due to Josephson vortices in superconducting Pr0.88LaCe0.12CuO4−δ single crystals. *Physical Review B*, **2007**, 75,	3.3	5
40	Single-particle tunneling spectroscopy and superconducting gaps in the layered iron-based superconductor KCa2Fe4As4F2. *Physical Review B*, **2021**, 103,	3.3	5
39	Spin dynamics of edge-sharing spin chains in SrCa13Cu24O41. *Physical Review B*, **2018**, 98,	3.3	5
38	Strong pinning in the hole-doped pnictide superconductor La0.34Na0.66Fe2As2. *Journal of Applied Physics*, **2019**, 125, 123902	2.5	4
37	Electronic specific heat in BaFe2−xNixAs2. *Physical Review B*, **2016**, 93,	3.3	4
36	Antiferromagnetism in the kagome-lattice compound α-Cu3Mg(OH)6Br2. *Physical Review B*, **2019**, 100,	3.3	4
35	Low-energy Ce spin excitations in CeFeAsO and CeFeAsO0.84F0.16. *Frontiers of Physics in China*, **2010**, 5, 161-165		4
34	Superconductivity and spin fluctuations. *Frontiers of Physics*, **2011**, 6, 429-439	3.7	4
33	Extreme Suppression of Antiferromagnetic Order and Critical Scaling in a Two-Dimensional Random Quantum Magnet. *Physical Review Letters*, **2021**, 126, 037201	7.4	4
32	Nature of the antiferromagnetic and nematic transitions in Sr1−xBaxFe1.97Ni0.03As2. *Physical Review B*, **2017**, 96,	3.3	3
31	Unconventional Antiferromagnetic Quantum Critical Point in Ba(Fe_{0.97}Cr_{0.03})_{2}(As_{1-x}P_{x})_{2}. *Physical Review Letters*, **2019**, 122, 037001	7.4	3
30	Long-range two-dimensional superstructure in the superconducting electron-doped cuprate Pr0.88LaCe0.12CuO4. *Physical Review B*, **2015**, 92,	3.3	3
29	Doping effects of Cr on the physical properties of BaFe1.9−xNi0.1CrxAs2. *Physical Review B*, **2018**, 98,	3.3	3
28	Temperature and polarization dependence of low-energy magnetic fluctuations in nearly optimally doped NaFe0.9785Co0.0215As. *Physical Review B*, **2017**, 96,	3.3	3

27	Common (□)Band Folding and Surface Reconstruction in FeAs-Based Superconductors. *Chinese Physics Letters*, **2021**, 38, 057404	1.8	3
26	Photoinduced metastable state with modulated Josephson coupling strengths in Pr0.88LaCe0.12CuO4. *Physical Review B*, **2018**, 98,	3.3	3
25	Spin-excitation anisotropy in the bilayer iron-based superconductor CaKFe4As4. *Physical Review Research*, **2020**, 2,	3.9	2
24	Nonlinear uniaxial pressure dependence of Tc in iron-based superconductors. *Physical Review Research*, **2019**, 1,	3.9	2
23	Vortex dynamics and phase diagram in the electron-doped cuprate superconductor Pr0.87LaCe0.13CuO4. *Physical Review B*, **2020**, 102,	3.3	2
22	19F NMR Study of the Bilayer Iron-Based Superconductor KCa2Fe4As4F2 *. *Chinese Physics Letters*, **2019**, 36, 127401	1.8	2
21	Single-crystal growth of the iron-based superconductor La0.34Na0.66Fe2As2. *Superconductor Science and Technology*, **2018**, 31, 125008	3.1	2
20	Nonlinear uniaxial pressure dependence of the resistivity in Sr1□ Ba x Fe1.97Ni0.03As2. *Chinese Physics B*, **2018**, 27, 087402	1.2	1
19	Emergence of the nodal portion of the Fermi surface due to the reduction process in the electron-doped cuprates. *Physica B: Condensed Matter*, **2008**, 403, 1170-1172	2.8	1
18	Nature of the quantum spin correlations through the superconducting□ormal phase transition in electron-doped superconducting Pr0.88LaCe0.12CuO4. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 3096-3099	3.9	1
17	Ultrafast optical spectroscopy evidence of pseudogap and electron-phonon coupling in an iron-based superconductor KCa2Fe4As4F2. *Science China: Physics, Mechanics and Astronomy*, **2022**, 65, 1	3.6	1
16	Nonlocal Effects of Low-Energy Excitations in Quantum-Spin-Liquid Candidate Cu3Zn(OH)6FBr. *Chinese Physics Letters*, **2021**, 38, 097501	1.8	1
15	A temperature-modulated dilatometer by using a piezobender-based device. *Review of Scientific Instruments*, **2020**, 91, 123901	1.7	1
14	Evidence for the random singlet phase in the honeycomb iridate SrIr2O6. *Physical Review B*, **2021**, 103,	3.3	1
13	Growth of Single Crystal and Effects of Electron Doping in Filled Skutterudite Compound PrFe4P12. *Advanced Materials Research*, **2013**, 807-809, 2793-2796	0.5	0
12	Observation of a Ubiquitous (□)-Type Nematic Superconducting Order in the Whole Superconducting Dome of Ultra-Thin BaFe2□ Ni x As2 Single Crystals. *Chinese Physics Letters*, **2021**, 38, 097401	1.8	0
11	Neutron Powder Diffraction Study on the Non-Superconducting Phases of ThFeAsN1□ O x (x = 0.15, 0.6) Iron Pnictide*. *Chinese Physics Letters*, **2019**, 36, 107403	1.8	0
10	Vortex dynamics and second magnetization peak in the iron-pnictide superconductor Ca0.82La0.18Fe0.96Ni0.04As2. *Superconductor Science and Technology*, **2021**, 34, 115010	3.1	0

9	Preferred Spin Excitations in the Bilayer Iron-Based Superconductor CaK(Fe_{0.96}Ni_{0.04})_{4}As_{4} with Spin-Vortex Crystal Order.. *Physical Review Letters*, **2022**, 128, 137003	7.4	0
8	Direct measurement of the temperature dependence of the in-plane magnetic penetration depth in optimally doped BaFe 2 (As1 P x) 2 single crystals. *Physica C: Superconductivity and Its Applications*, **2017**, 533, 59-62	1.3	
7	Evolution of spin excitations in electron-doped Pr0.88LaCe0.12CuO4 *Physica C: Superconductivity and Its Applications*, **2007**, 460-462, 52-55	1.3	
6	Revisit the electronic phase diagram of high temperature superconductors: macroscopic phase separation in heavily overdoped regime. *Physica C: Superconductivity and Its Applications*, **2001**, 364-365, 558-561	1.3	
5	Novel magnetic flux penetration in overdoped La2 SrxCuO4single crystals: macroscopic phase separation in a heavily overdoped regime. *Superconductor Science and Technology*, **2002**, 15, 334-338	3.1	
4	Nematic fluctuations in iron-based superconductors studied by resistivity change under uniaxial pressure. *Wuli Xuebao/Acta Physica Sinica*, **2018**, 67, 127401	0.6	
3	Antiferromagnetic Spin Fluctuations in the Fe-Based Superconductors **2012**, 243-274		
2	Effect of residual stress on nematic domains in BaFe 2 x Ni x As 2 studied by angular magnetoresistance. *Chinese Physics B*, **2016**, 25, 057402	1.2	
1	Excess-iron driven spin glass phase in Fe1 + y Te1 x Se x *. *Chinese Physics B*, **2021**, 30, 087402	1.2	