

Shiliang Li

List of Publications by Year in descending order

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144
papers

5,115
citations

101384

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148
all docs

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docs citations

148
times ranked

3880
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and magnetic phase diagram of $\text{CeFeAsO}_{1-x}\text{F}_x$ and its relation to high-temperature superconductivity. Nature Materials, 2008, 7, 953-959.	13.3	706
2	First-order magnetic and structural phase transitions in Fe_2As_2 . Physical Review B, 2009, 79, .	1.1	488
3	Spin waves and magnetic exchange interactions in CaFe_2As_2 . Nature Physics, 2009, 5, 555-560.	6.5	366
4	Materials and Novel Superconductivity in Iron Pnictide Superconductors. Annual Review of Condensed Matter Physics, 2011, 2, 121-140.	5.2	168
5	Low Energy Spin Waves and Magnetic Interactions in SrFe_2As_2 . Physical Review Letters, 2008, 101, 167203.	2.9	161
6	Structural and magnetic phase transitions in NaFeAs . Physical Review B, 2009, 80, .	1.1	141
7	Resonance in the electron-doped high-transition-temperature superconductor $\text{Pr}_{0.88}\text{La}_{0.12}\text{CuO}_4$. Nature, 2006, 442, 59-62.	13.7	112
8	Gapped Spin-1/2 Spinon Excitations in a New Kagome Quantum Spin Liquid Compound $\text{Cu}_3\text{Zn}(\text{OH})_6\text{FBr}$. Chinese Physics Letters, 2017, 34, 077502.	1.3	98
9	Microscopic annealing process and its impact on superconductivity in TaO_2 -structure electron-doped copper oxides. Nature Materials, 2007, 6, 224-229.	13.3	97
10	Coexistence and Competition of the Short-Range Incommensurate Antiferromagnetic Order with the Superconducting State of BaFe_2As_2 . Physical Review Letters, 2012, 108, 247002.	2.9	88
11	Suppression of superconducting critical current density by small flux jumps in MgB_2 thin films. Physical Review B, 2002, 65, .	1.1	83
12	A distinct bosonic mode in an electron-doped high-transition-temperature superconductor. Nature, 2007, 450, 1058-1061.	13.7	73
13	Electron-doping evolution of the low-energy spin excitations in the iron arsenide superconductor BaFe_2As_2 . Physical Review B, 2009, 79, .	1.1	73
14	Magnetic Quantum Oscillations in $\text{YBaCuO}_{6.61}$ and $\text{YBaCuO}_{6.35}$. Physical Review B, 2009, 79, .	2.9	68
15	Spin gap and magnetic resonance in BaFe_2As_2 . Physical Review B, 2009, 79, .	1.1	63
16	Lattice Distortion and Magnetic Quantum Phase Transition in $\text{CeFeAsO}_{1-x}\text{F}_x$. Physical Review Letters, 2010, 104, 017204.	2.9	63
17	Systematic growth of BaFe_2As_2 large crystals. Superconductor Science and Technology, 2011, 24, 065004.	1.8	59
18	Crystalline Electric Field as a Probe for Long-Range Antiferromagnetic Order and Superconducting State of $\text{CeFeAsO}_{1-x}\text{F}_x$. Physical Review Letters, 2008, 101, 217002.	2.9	56

#	ARTICLE	IF	CITATIONS
19	Spin Excitation Anisotropy as a Probe of Orbital Ordering in the Paramagnetic Tetragonal Phase of Superconducting $\text{BaFe}_{1.904}\text{Ni}_{0.096}\text{As}_2$ http://www.w3.org/1998/Math/MathML display="inline" $\text{BaFe}_{1.904}\text{Ni}_{0.096}\text{As}_2$	2.9	56
20	Antiferromagnetic order and superlattice structure in nonsuperconducting and superconducting RbFe_2As_2 http://www.w3.org/1998/Math/MathML display="inline" RbFe_2As_2	1.1	54
21	Evidence of a Spin Resonance Mode in the Iron-Based Superconductor $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ http://www.w3.org/1998/Math/MathML display="inline" $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$	2.9	53
22	High-Energy Spin Excitations in the Electron-Doped Superconductor $\text{Pr}_{0.88}\text{La}_{0.12}\text{CuO}_4$ with $T_c = 21\text{ K}$ http://www.w3.org/1998/Math/MathML display="inline" $\text{Pr}_{0.88}\text{La}_{0.12}\text{CuO}_4$	2.9	51
23	Structural and Magnetic Phase Transitions near Optimal Superconductivity in BaFe_2As_2 http://www.w3.org/1998/Math/MathML display="inline" BaFe_2As_2		

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37	Transition from Three-Dimensional Anisotropic Spin Excitations to Two-Dimensional Spin Excitations by Electron Doping the FeAs-Based $\text{BaFe}_{1.96}\text{Ni}$. Physical Review Letters, 2009, 103, 087005.	2.9	36
38	Spin excitations and spin wave gap in the ferromagnetic Weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	35
39	Normal-State Hourglass Dispersion of the Spin Excitations in $\text{FeSe}_{1-x}\text{Te}_x$. Physical Review Letters, 2010, 105, 157002.	2.9	34
40	Nematic Quantum Critical Fluctuations in BaFe_2As_2 . Physical Review Letters, 2016, 117, 157002.	2.9	33
41	Dependence of the specific heat of $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O} \cdot z\text{D}_2\text{O}$ on sodium and water concentrations. Physical Review B, 2005, 72, .	1.1	32
42	Impact of uniaxial pressure on structural and magnetic phase transitions in electron-doped iron pnictides. Physical Review B, 2016, 93, .	1.1	32
43	Weak-coupling Bardeen-Cooper-Schrieffer superconductivity in the electron-doped cuprate superconductors. Physical Review B, 2008, 77, .	1.1	31
44	Neutron Spin Resonance in a Quasi-Two-Dimensional Iron-Based Superconductor. Physical Review Letters, 2020, 125, 117002.	2.9	31
45	Strong coupling superconductivity in NaFeCoAs . Physical Review B, 2013, 87, .	1.1	30
46	Strong Quantum Fluctuation of Vortices in Bulk Samples of the New Superconductor MgB_2 . Chinese Physics Letters, 2001, 18, 816-819.	1.3	29
47	Competition between Antiferromagnetism and Superconductivity in the Electron-Doped Cuprates Triggered by Oxygen Reduction. Physical Review Letters, 2007, 99, 157002.	2.9	29
48	From Claringbullite to a New Spin Liquid Candidate $\text{Cu}_3\text{Zn}(\text{OH})_6\text{FCl}$. Chinese Physics Letters, 2018, 36, 017502.	1.3	28
49	Odd and Even Modes of Neutron Spin Resonance in the Bilayer Iron-Based Superconductor $\text{CaKFe}_4\text{As}_4$. Physical Review Letters, 2018, 120, 267003.	2.9	28
50	Electron-spin excitation coupling in an electron-doped copper oxide superconductor. Nature Physics, 2011, 7, 719-724.	6.5	25
51	Effect of Zn doping on the antiferromagnetism in kagome Cu_4ZnAs_2 . Physical Review B, 2018, 98, .	1.1	25
52	Electron doping dependence of the anisotropic superconductivity in BaFe_2As_2 . Physical Review B, 2015, 92, .	1.1	24
53	Neutron Spin Resonance in the 112-Type Iron-Based Superconductor. Physical Review Letters, 2018, 120, 137001.	2.9	24
54	Spectroscopic evidence of bilayer splitting and strong interlayer pairing in the superconductor $\text{KCa}_2\text{F}_2\text{As}_2$. Physical Review B, 2020, 101, .	1.2	24

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55	Effect of Nematic Order on the Low-Energy Spin Fluctuations in Detwinned BaFe_2As_2 . Physical Review Letters, 2016, 117, 227003.	2.9	23
56	Spin-charge coupling in lightly doped $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$. Physical Review B, 2005, 71, .	1.1	21
57	Quantum spin excitations through the metal-to-insulator crossover in BaCu_2O_7 . Physical Review Letters, 2001, 86, 107201.	1.1	21
58	Crystal growth and phase diagram of 112-type iron pnictide superconductor $\text{Ca}_{1-x}\text{La}_x\text{FeAs}_2$. Superconductor Science and Technology, 2017, 30, 095002.		21
59	Superconductivity in WP single crystals. Physical Review B, 2019, 99, .	1.1	21
60	Extreme Suppression of Antiferromagnetic Order and Critical Scaling in a Two-Dimensional Random Quantum Magnet. Physical Review Letters, 2021, 126, 037201.	2.9	21
61	Possible Superconductivity at 37 K in Graphite-Sulphur Composite. Chinese Physics Letters, 2001, 18, 1648-1650.	1.3	20
62	Friedel Oscillations of Vortex Bound States under Extreme Quantum Limit in $\text{KCaFe}_2\text{As}_2$. Physical Review Letters, 2021, 126, 257002.	2.9	20
63	Magnetic fluctuations in high-Tc superconductors reveal breakdown of fermiology: Experiments and Fermi-liquid/RPA calculations. Physical Review B, 2007, 76, .	1.1	19
64	Quantum spin correlations through the superconducting-to-normal phase transition in electron-doped superconducting $\text{Pr}_{0.88}\text{LaCe}_{0.12}\text{CuO}_4$. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15259-15263.	3.3	19
65	Quantum spin correlations through the superconducting-to-normal phase transition in $\text{Fe}_{0.82}\text{Se}_{1.68}$. Physical Review Letters, 2007, 98, 107201.	1.1	18
66	Magnetic relaxation and critical current density of the new superconductor MgB_2 . Superconductor Science and Technology, 2002, 15, 315-319.	1.8	17
67	Effect of the in-plane magnetic field on the neutron spin resonance in optimally doped $\text{FeSe}_{0.4}\text{Te}_{0.6}$ and $\text{BaFe}_{1.9}\text{Ni}_{0.1}\text{As}_2$ superconductors. Physical Review B, 2011, 84, .	1.1	17
68	Possible Dirac quantum spin liquid in the kagome quantum antiferromagnet ZnCl_2 .		

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73	Neutron powder diffraction study on the iron-based nitride superconductor ThFeAsN. Europhysics Letters, 2017, 117, 57005.	0.7	15
74	Ultrafast optical spectroscopy evidence of pseudogap and electron-phonon coupling in an iron-based superconductor KCa ₂ Fe ₄ As ₄ F ₂ . Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	2.0	15
75	Intrinsic percolative superconductivity in heavily overdoped high-temperature superconductors. Europhysics Letters, 2002, 57, 260-266.	0.7	14
76	The effect of Cr impurity to superconductivity in electron-doped BaFe ₂ As ₂ NiAs ₂ . Superconductor Science and Technology, 2014, 27, 115003.	1.8	14
77	Magnetic structures of the magnetoelectric material $F\text{e}^4\text{N}$. Physical Review B, 2017, 96, 020407.	1.1	14
78	Anisotropic magnetoelastic response in the magnetic Weyl semimetal Co ₃ Sn ₂ S ₂ . Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	14
79	Low-temperature transport properties of Nd _{2-x} Ce _x CuO ₄ : Metal-insulator crossover in the overdoped regime. Physical Review B, 2002, 65, .	1.1	13
80	Superconducting fluctuations in isovalently substituted BaFe ₂ (As _{1-x} P _x) ₂ : Possible observation of multiband effects. Physical Review B, 2015, 92, .	1.1	13
81	Electron doping evolution of structural and antiferromagnetic phase transitions in NaFe _{1-x} CoxAs iron pnictides. Physical Review B, 2016, 94, .	1.1	13
82	Spin excitation anisotropy in the optimally isovalent-doped superconductor BaFe ₂ As ₂ . Physical Review B, 2017, 96, 020407.	1.1	13
83	Optical spectroscopy and superconducting gaps in the layered iron-based superconductor KCa ₂ Fe ₄ As ₄ F ₂ . Physical Review B, 2022, 105, 020407.	1.1	13
84	Annealing effect on the electron-doped superconductor Pr _{1-x} Co _x O ₄ . Physical Review B, 2009, 80, .	1.1	12
85	Doping evolution of antiferromagnetism and transport properties in nonsuperconducting BaFe _{2-x} Ni _x Cr _x As ₂ . Physical Review B, 2015, 91, .	1.1	12
86	Magnetic form factor of SrFe ₂ As ₂ : Neutron diffraction measurements. Physical Review B, 2010, 81, .	1.1	11
87	Phase separation, competition, and volume-fraction control in NaFe _{1-x} CoxAs. Physical Review B, 2014, 90, .	1.1	11
88	Magnetic Phase Diagram of Cu _{4-x} Zn _x (OH) ₆ FBr Studied by Neutron-Diffraction and ¹ / ₄ SR Techniques*. Chinese Physics Letters, 2020, 37, 107503.	1.3	11
89	Antiferromagnetism in the kagome-lattice compound Fe^{\pm}Mg . Physical Review B, 2019, 100, .	1.1	10
90	Low-temperature specific-heat studies on two square-kagome antiferromagnets. Physical Review B, 2022, 105, .	1.1	10

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91	Modeling and simulation on the magnetization in field-cooling and zero-field-cooling processes. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 316, 293-299.	0.6	9
92	Weak quantum flux creep and strong pinning in the new superconductor MgB ₂ . <i>Chinese Physics B</i> , 2001, 10, 340-342.	1.3	9
93	Dimensional crossover of vortex dynamics induced by Gd substitution on Bi2212 single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 391, 169-177.	0.6	9
94	Phase diagram and neutron spin resonance of superconducting NaFe _{1-x} Cu _x As. <i>Physical Review B</i> , 2017, 95, .	1.1	9
95	Quasi-two-dimensional behavior of 112-type iron-based superconductors. <i>Physical Review B</i> , 2017, 96, .	1.1	9
96	Nonlocal Effects of Low-Energy Excitations in Quantum-Spin-Liquid Candidate Cu ₃ Zn(OH) ₆ FBr. <i>Chinese Physics Letters</i> , 2021, 38, 097501.	1.3	9
97	Distinction between the normal-state gap and superconducting gap of electron-doped cuprates. <i>Physical Review B</i> , 2008, 78, .	1.1	8
98	Vortex-slush state in YBa ₂ Cu ₃ O _{7-δ} thin films. <i>Physical Review B</i> , 2001, 64, .	1.1	7
99	Electronic specific heat in $\text{BaFe}_{1-x}\text{Co}_x\text{As}$. <i>Physical Review B</i> , 2016, 93, .	1.1	7
100	Photoinduced metastable state with modulated Josephson coupling strengths in $\text{Pr}_{1-x}\text{Ce}_x\text{FeAs}$. <i>Physical Review B</i> , 2018, 98, .	1.1	7
101	Doping effects of Cr on the physical properties of $\text{BaFe}_{1-x}\text{Co}_x\text{As}$. <i>Physical Review B</i> , 2018, 98, .	1.1	7
102	Vortex dynamics and phase diagram in the electron-doped cuprate superconductor $\text{Pr}_{1-x}\text{Ce}_x\text{FeAs}$. <i>Physical Review B</i> , 2020, 102, .	1.1	7
103	Vortex dynamics and second magnetization peak in the iron-pnictide superconductor $\text{Ca}_{0.82}\text{La}_{0.18}\text{Fe}_{0.96}\text{Ni}_{0.04}\text{As}_2$. <i>Superconductor Science and Technology</i> , 2021, 34, 115010.	1.8	7
104	Spin-excitation anisotropy in the bilayer iron-based superconductor CaKFe ₄ As ₄ . <i>Physical Review Research</i> , 2020, 2, .	1.3	7
105	Preferred spin excitations in the bilayer iron-based superconductor $\text{CaKFe}_4\text{As}_4$. <i>Chinese Physics Letters</i> , 2022, 128, 137003.	2.9	7
106	Upper Critical Field and Irreversibility Line Determined by Transport Measurement of the New Superconductor MgB ₂ . <i>Chinese Physics Letters</i> , 2001, 18, 823-825.	1.3	6
107	Peak effect due to Josephson vortices in superconducting Pr _{0.88} LaCe _{0.12} CuO ₄ single crystals. <i>Physical Review B</i> , 2007, 75, .	1.1	6
108	Vortex "glass" state in the isovalent optimally doped pnictide superconductor $\text{BaFe}_2(\text{As}_{0.68}\text{P}_{0.32})_2$. <i>Superconductor Science and Technology</i> , 2017, 30, 055003.	1.8	6

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109	Nature of the antiferromagnetic and nematic transitions in $\text{Sr}_{1-x}\text{Ba}_x\text{Fe}_{1.97}\text{Ni}_{0.03}\text{As}_2$. Physical Review B, 2017, 96, .	1.1	6
110	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, .	1.1	6
111	Strong pinning in the hole-doped pnictide superconductor $\text{La}_{0.34}\text{Na}_{0.66}\text{Fe}_2\text{As}_2$. Journal of Applied Physics, 2019, 125, .	1.1	6
112	Superconductivity and spin fluctuations. Frontiers of Physics, 2011, 6, 429-439.	2.4	6
113	Low-energy Ce spin excitations in CeFeAsO and $\text{CeFeAsO}_{0.84}\text{F}_{0.16}$. Frontiers of Physics in China, 2010, 5, 161-165.	1.0	5
114	Long-range two-dimensional superstructure in the superconducting electron-doped cuprate $\text{Pr}_{0.88}\text{LaCe}_{0.12}\text{CuO}_4$. Physical Review B, 2015, 92, .	1.1	5
115	Spin dynamics of edge-sharing spin chains in $\text{SrCa}_{13}\text{Cu}_{24}\text{O}_{41}$. Physical Review B, 2018, 98, .	1.1	5
116	Quantum criticality in $\text{Nd}_{1-x}\text{Fe}_x$ under magnetic field. Physical Review B, 2021, 103, .	1.1	5
117	Evidence for the random singlet phase in the honeycomb iridate SrIr_2O_6 . Physical Review B, 2021, 103, .	1.1	5
118	Single-crystal growth of the iron-based superconductor $\text{La}_{0.34}\text{Na}_{0.66}\text{Fe}_2\text{As}_2$. Superconductor Science and Technology, 2018, 31, 125008.	1.8	4
119	Unconventional Antiferromagnetic Quantum Critical Point in $\text{Ba}(\text{Fe}_{0.97}\text{Cr}_{0.03})_2(\text{As}_{1-x}\text{P}_x)_2$. Physical Review Letters, 2019, 122, 037001.	2.9	4
120	Common (Γ_6 , Γ_8) Band Folding and Surface Reconstruction in FeAs-Based Superconductors. Chinese Physics Letters, 2021, 38, 057404.	1.3	4
121	Local evidence for collective spin excitations in the distorted kagome antiferromagnet Pr_3BWO_9 . Physical Review B, 2021, 104, .	1.1	4
122	Nonlinear uniaxial pressure dependence of T_c in iron-based superconductors. Physical Review Research, 2019, 1, .	1.1	4
123	^{19}F NMR Study of the Bilayer Iron-Based Superconductor $\text{KCa}_2\text{Fe}_4\text{As}_4\text{F}_2$. Chinese Physics Letters, 2019, 36, 127401.	1.3	3
124	Single-crystal growth and magnetic anisotropy in PrFe_2Ga_8 . Journal of Physics Condensed Matter, 2022, 34, 165601.	0.7	3
125	Nonlinear uniaxial pressure dependence of the resistivity in $\text{Sr}_{1-x}\text{Ba}_x\text{Fe}_{1.97}\text{Ni}_{0.03}\text{As}_2$. Chinese Physics B, 2018, 27, 087402.	0.7	2
126	A temperature-modulated dilatometer by using a piezobender-based device. Review of Scientific Instruments, 2020, 91, 123901.	0.6	2

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127	Neutron diffraction and linear Gr $\frac{1}{4}$ neisen parameter studies of magnetism in NdFe ₂ Ca ₈ . Physical Review B, 2022, 105, .	1.1	2
128	Nematic Fluctuations in the Non-Superconducting Iron Pnictide BaFe _{1.9} $\hat{~}$ xNi _{0.1} CrxAs ₂ . Frontiers in Physics, 0, 10, .	1.0	2
129	Tracking the nematicity in cuprate superconductors: a resistivity study under uniaxial pressure. Journal of Physics Condensed Matter, 2022, 34, 334001.	0.7	2
130	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.	1.3	1
131	Nature of the quantum spin correlations through the superconducting $\hat{~}$ normal phase transition in electron-doped superconducting Pr _{0.88} LaCe _{0.12} CuO ₄ . Journal of Physics and Chemistry of Solids, 2008, 69, 3096-3099.	1.9	1
132	Evidence for multiple nodeless gaps and electron-mode coupling from scanning tunneling spectroscopy in the iron-based superconductor Ba _{0.6} K _{0.4} Fe ₂ As ₂ . AIP Conference Proceedings, 2012, , .	0.3	1
133	Growth of Single Crystal and Effects of Electron Doping in Filled Skutterudite Compound PrFe ₄ P ₁₂ . Advanced Materials Research, 2013, 807-809, 2793-2796.	0.3	1
134	Effects of Co Substitution on the Magnetic Excitation in Heavy Fermion Compound PrFe ₄ P ₁₂ . , 2014, , .		1
135	Neutron Powder Diffraction Study on the Non-Superconducting Phases of ThFeAsN ₁ $\hat{~}$ x O x (x = 0.15,) Tj ETQq1 1 0,784314,rgBT /O	1.3	1
136	Excess-iron driven spin glass phase in Fe _{1 + y} Te ₁ $\hat{~}$ x Se x *. Chinese Physics B, 2021, 30, 087402.	0.7	1
137	Observation of a Ubiquitous (İ€, İ€)-Type Nematic Superconducting Order in the Whole Superconducting Dome of Ultra-Thin BaFe ₂ $\hat{~}$ x Ni x As ₂ Single Crystals. Chinese Physics Letters, 2021, 38, 097401.	1.3	1
138	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.	0.6	0
139	Novel magnetic flux penetration in overdoped La ₂ $\hat{~}$ xSrxCuO ₄ single crystals: macroscopic phase separation in a heavily overdoped regime. Superconductor Science and Technology, 2002, 15, 334-338.	1.8	0
140	Evolution of spin excitations in electron-doped Pr _{0.88} LaCe _{0.12} CuO ₄ $\hat{~}$ İ. Physica C: Superconductivity and Its Applications, 2007, 460-462, 52-55.	0.6	0
141	Effect of residual stress on nematic domains in BaFe ₂ $\hat{~}$ x Ni x As ₂ studied by angular magnetoresistance. Chinese Physics B, 2016, 25, 057402.	0.7	0
142	Direct measurement of the temperature dependence of the in-plane magnetic penetration depth in optimally doped BaFe ₂ (As ₁ $\hat{~}$ xP x) ₂ single crystals. Physica C: Superconductivity and Its Applications, 2017, 533, 59-62.	0.6	0
143	Antiferromagnetic Spin Fluctuations in the Fe-Based Superconductors. , 2012, , 243-274.		0
144	Nematic fluctuations in iron-based superconductors studied by resistivity change under uniaxial pressure. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 127401.	0.2	0