

Lei Shan

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79
papers

2,473
citations

27
h-index

49
g-index

84
ext. papers

2,772
ext. citations

4.3
avg, IF

4.32
L-index

#	Paper	IF	Citations
79	Roles of multiband effects and electron-hole asymmetry in the superconductivity and normal-state properties of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physical Review B</i> , 2009 , 80,	3.3	170
78	Critical fields and anisotropy of $\text{NdFeAsO}_{0.82}\text{F}_{0.18}$ single crystals. <i>Applied Physics Letters</i> , 2008 , 93, 032503	3.4	157
77	Low temperature specific heat of the hole-doped $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ single crystals. <i>Physical Review B</i> , 2009 , 79,	3.3	142
76	Observation of a robust zero-energy bound state in iron-based superconductor $\text{Fe}(\text{Te},\text{Se})$. <i>Nature Physics</i> , 2015 , 11, 543-546	16.2	130
75	Flux dynamics and vortex phase diagram in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ single crystals revealed by magnetization and its relaxation. <i>Physical Review B</i> , 2010 , 81,	3.3	118
74	Point-contact spectroscopy of iron-based layered superconductor $\text{LaO}_{0.9}\text{F}_{0.1}\text{FeAs}$. <i>Europhysics Letters</i> , 2008 , 83, 57004	1.6	115
73	Superconductivity and phase diagrams of the 4d- and 5d-metal-doped iron arsenides $\text{SrFe}_2\text{MxAs}_2$ ($\text{M}=\text{Rh},\text{Ir},\text{Pd}$). <i>Physical Review B</i> , 2009 , 80,	3.3	102
72	Observation of ordered vortices with Andreev bound states in $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$. <i>Nature Physics</i> , 2011 , 7, 325-331	16.2	96
71	Evidence for two energy gaps in superconducting $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ single crystals and the breakdown of the Uemura plot. <i>Physical Review Letters</i> , 2008 , 101, 257006	7.4	94
70	Fabrication and superconductivity of Na_xTaS_2 crystals. <i>Physical Review B</i> , 2005 , 72,	3.3	94
69	Anisotropic structure of the order parameter in $\text{FeSe}_{0.45}\text{Te}_{0.55}$ revealed by angle-resolved specific heat. <i>Nature Communications</i> , 2010 , 1, 112	17.4	76
68	Multiple gaps in $\text{SmFeAsO}_{0.9}\text{F}_{0.1}$ revealed by point-contact spectroscopy. <i>Superconductor Science and Technology</i> , 2009 , 22, 015018	3.1	68
67	Transport properties and asymmetric scattering in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ single crystals. <i>Physical Review B</i> , 2011 , 84,	3.3	67
66	Magnetization relaxation and collective vortex pinning in the Fe-based superconductor $\text{SmFeAsO}_{0.9}\text{F}_{0.1}$. <i>Physical Review B</i> , 2008 , 78,	3.3	63
65	s-wave pairing in MgCNi_3 revealed by point contact tunneling. <i>Physical Review B</i> , 2003 , 68,	3.3	59
64	Large anisotropic normal-state magnetoresistance in clean MgB_2 thin films. <i>Physical Review Letters</i> , 2006 , 96, 167003	7.4	55
63	Specific-heat measurement of a residual superconducting state in the normal state of underdoped $\text{Bi}_{2-x}\text{Sr}_{2-x}\text{La}_x\text{CuO}_{6+\delta}$ cuprate superconductors. <i>Physical Review Letters</i> , 2009 , 103, 067002	7.4	47

62	Close relationship between superconductivity and the bosonic mode in Ba _{0.6} K _{0.4} Fe ₂ As ₂ and Na(Fe _{0.975} Co _{0.025})As. <i>Nature Physics</i> , 2013 , 9, 42-48	16.2	45
61	Evidence of a spin resonance mode in the iron-based superconductor Ba(0.6)K(0.4)Fe ₂ As ₂ from scanning tunneling spectroscopy. <i>Physical Review Letters</i> , 2012 , 108, 227002	7.4	45
60	Influence of carbon concentration on the superconductivity in MgC _x Ni ₃ . <i>Physical Review B</i> , 2003 , 68,	3.3	42
59	Distinct pairing symmetries in Nd _{1.85} Ce _{0.15} CuO ₄ and La _{1.89} Sr _{0.11} CuO ₄ single crystals: Evidence from comparative tunneling measurements. <i>Physical Review B</i> , 2005 , 72,	3.3	40
58	Three-Dimensional Charge Density Wave and Surface-Dependent Vortex-Core States in a Kagome Superconductor CsV ₃ Sb ₅ . <i>Physical Review X</i> , 2021 , 11,	9.1	40
57	Physical properties of the noncentrosymmetric superconductor Ru ₇ B ₃ . <i>Physical Review B</i> , 2009 , 79,	3.3	39
56	Weak-coupling d-wave BCS superconductivity and unpaired electrons in overdoped La _{2-x} Sr _x CuO ₄ single crystals. <i>Physical Review B</i> , 2007 , 76,	3.3	39
55	Pseudogap, superconducting energy scale, and Fermi arcs of underdoped cuprate superconductors. <i>Physical Review B</i> , 2005 , 72,	3.3	35
54	Angular dependence of resistivity in the superconducting state of NdFeAsO _{0.82} F _{0.18} single crystals. <i>Superconductor Science and Technology</i> , 2008 , 21, 105018	3.1	34
53	Weak-coupling Bardeen-Cooper-Schrieffer superconductivity in the electron-doped cuprate superconductors. <i>Physical Review B</i> , 2008 , 77,	3.3	29
52	Possible nodeless superconductivity in the noncentrosymmetric superconductor Mg ₁₂ P ₁₉ B ₁₆ . <i>Physical Review B</i> , 2007 , 76,	3.3	27
51	Pressure-induced topological phase transitions and strongly anisotropic magnetoresistance in bulk black phosphorus. <i>Physical Review B</i> , 2017 , 95,	3.3	24
50	Nematic Quantum Critical Fluctuations in BaFe _{2-x} Ni _x As ₂ . <i>Physical Review Letters</i> , 2016 , 117, 157002	7.4	24
49	Evidence of multiple nodeless energy gaps in superconducting Ba _{0.6} K _{0.4} Fe ₂ As ₂ single crystals from scanning tunneling spectroscopy. <i>Physical Review B</i> , 2011 , 83,	3.3	23
48	Bulk evidence for s-wave pairing symmetry in electron-doped infinite-layer cuprate Sr _{0.9} La _{0.1} CuO ₂ . <i>Europhysics Letters</i> , 2005 , 69, 263-269	1.6	22
47	Superconductivity at 10.4 K in a novel quasi-one-dimensional ternary molybdenum pnictide K ₂ Mo ₃ As ₃ . <i>Science Bulletin</i> , 2018 , 63, 952-956	10.6	22
46	Vortex images on Ba _{1-x} K _x Fe ₂ As ₂ observed directly by magnetic force microscopy. <i>Physical Review B</i> , 2012 , 85,	3.3	19
45	Characteristics of the vortex state in MgB ₂ thin films. <i>Physical Review B</i> , 2007 , 76,	3.3	19

44	Magnetic fluctuations in n-type high-Tc superconductors reveal breakdown of fermiology: Experiments and Fermi-liquid/RPA calculations. <i>Physical Review B</i> , 2007 , 76,	3-3	19
43	Normal state transport properties in single crystals of Ba _{1-x} K _x Fe ₂ As ₂ and NdFeAsO _{1-x} F _x . <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 477-484	1-3	18
42	Competition between BCS superconductivity and ferromagnetic spin fluctuations in MgCNi ₃ . <i>Physical Review B</i> , 2005 , 71,	3-3	18
41	Isotropic s-wave pairing symmetry in non-centrosymmetric Re ₃ W revealed by point-contact spectroscopy. <i>Superconductor Science and Technology</i> , 2008 , 21, 075011	3-1	17
40	Reversible magnetization and critical fluctuations in systematically doped YBa ₂ Cu ₃ O _{7-δ} single crystals. <i>Physical Review B</i> , 2006 , 74,	3-3	16
39	Vortex overlapping in a BCS type-II superconductor revealed by Andreev reflection spectroscopy. <i>Physical Review B</i> , 2006 , 73,	3-3	16
38	Electrical resistivity and Andreev reflection spectroscopy of the superconducting oxide spinel LiTi ₂ O ₄ . <i>Physical Review B</i> , 2006 , 73,	3-3	15
37	Annealing effect on the electron-doped superconductor Pr _{0.88} LaCe _{0.12} CuO ₄ . <i>Physical Review B</i> , 2009 , 80,	3-3	11
36	Anisotropic electron-phonon coupling in the spinel oxide superconductor LiTi ₂ O ₄ . <i>Physical Review B</i> , 2017 , 95,	3-3	10
35	Interfacial Superconductivity on the Topological Semimetal Tungsten Carbide Induced by Metal Deposition. <i>Advanced Materials</i> , 2020 , 32, e1907970	24	10
34	Superconductivity induced at a point contact on the topological semimetal tungsten carbide. <i>Physical Review B</i> , 2019 , 100,	3-3	10
33	Distinction between the normal-state gap and superconducting gap of electron-doped cuprates. <i>Physical Review B</i> , 2008 , 78,	3-3	8
32	Competition of superconductivity and charge density wave order in Na _x TaS ₂ single crystals. <i>Science and Technology of Advanced Materials</i> , 2005 , 6, 736-739	7-1	7
31	Specific heat of optimally doped Ba(Fe _{1-x} TM _x) ₂ As ₂ (TM = Co and Ni) single crystals at low temperatures: A multiband fitting. <i>Physical Review B</i> , 2012 , 85,	3-3	6
30	Two superconducting phases induced at point contacts on the Weyl semimetal TaAs. <i>Physical Review B</i> , 2020 , 101,	3-3	5
29	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
28	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,	3-3	5
27	Evidence for s-wave pairing from measurement of the lower critical field in MgCNi ₃ . <i>Physical Review B</i> , 2005 , 71,	3-3	5

26	Normal-state gap in the parent cuprate Pr_2CuO_4 . <i>Physical Review B</i> , 2017 , 96,	3.3	4
25	Electronic specific heat in $\text{BaFe}_2\text{Ni}_x\text{As}_2$. <i>Physical Review B</i> , 2016 , 93,	3.3	4
24	Field and temperature dependence of thermally activated flux flow resistance in $\text{Tl}_2\text{Ba}_2\text{CaCu}_2\text{O}_8$ thin films. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 423, 175-180	1.3	4
23	Superconductivity in thiospinel $\text{Cu}_{1.3}\text{K}_{0.2}\text{Co}_{1.5}\text{S}_4$. <i>Physical Review B</i> , 2005 , 71,	3.3	4
22	Superconductivity in LaPd_2Bi_2 with CaBe_2Ge_2 -type structure. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018 , 61, 1	3.6	4
21	Observation of mode-like features in tunneling spectra of iron-based superconductors. <i>Chinese Physics B</i> , 2015 , 24, 077402	1.2	3
20	Manipulating vortex motion by thermal and Lorentz force in high-temperature superconductors. <i>Physical Review B</i> , 2005 , 72,	3.3	3
19	Tip-induced superconductivity on the topological semimetals TaAs_2 and NbAs_2 . <i>Physical Review B</i> , 2020 , 102,	3.3	3
18	Doping Induced Gap Anisotropy in Iron-Based Superconductors: a Point-Contact Andreev Reflection Study of $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ Single Crystals. <i>Chinese Physics Letters</i> , 2015 , 32, 077401	1.8	2
17	Superconducting Interfaces between Weyl Semimetal and Normal Metal. <i>Advanced Quantum Technologies</i> , 2020 , 3, 2000020	4.3	2
16	Pressure-Dependent Point-Contact Spectroscopy of Superconducting PbTaSe_2 Single Crystals. <i>Chinese Physics Letters</i> , 2020 , 37, 097403	1.8	2
15	Superconductivity at the Normal Metal/Dirac Semimetal Cd_3As_2 Interface. <i>Chinese Physics Letters</i> , 2020 , 37, 077401	1.8	2
14	Transition from tunneling regime to local point contact realized on $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ surface. <i>Chinese Physics B</i> , 2017 , 26, 067402	1.2	1
13	Tunneling spectroscopy of $\text{Al}/\text{AlO}_x/\text{Pb}$ subjected to hydrostatic pressure. <i>Applied Physics Letters</i> , 2015 , 106, 202601	3.4	1
12	Inelastic Electron Tunneling in $2\text{H-Ta}_x\text{Nb}_{1-x}\text{Se}_2$ Evidenced by Scanning Tunneling Spectroscopy. <i>Physical Review Letters</i> , 2020 , 124, 106403	7.4	1
11	Nonlinear uniaxial pressure dependence of the resistivity in $\text{Sr}_{1-x}\text{Ba}_x\text{Fe}_{1.97}\text{Ni}_{0.03}\text{As}_2$. <i>Chinese Physics B</i> , 2018 , 27, 087402	1.2	1
10	Proximity-Induced Superconductivity in New Superstructures on 2H-NbSe_2 Surface *. <i>Chinese Physics Letters</i> , 2017 , 34, 077403	1.8	1
9	Two-dimensional scaling of resistance in flux flow region in $\text{Tl}_2\text{Ba}_2\text{CaCu}_2\text{O}_8$ thin films. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 415, 139-144	1.3	1

8	Tip-induced superconductivity commonly existing in the family of transition-metal dipnictides MP_n . <i>Chinese Physics B</i> , 2021 , 30, 017304	1.2	1
7	Distinction between critical current effects and intrinsic anomalies in the point-contact Andreev reflection spectra of unconventional superconductors. <i>Chinese Physics B</i> , 2018 , 27, 047403	1.2	0
6	Surface morphology and electronic structure in stoichiometric superconductor $CaKFe_4As_4$ probed by scanning tunneling microscopy/spectroscopy. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	0
5	Substitution effect on the superconductivity in $Mo_3Re_xAl_2C$ with $\bar{1}10$ structure prepared by microwave method*. <i>Chinese Physics B</i> , 2021 , 30, 077401	1.2	0
4	Thermally activated flux motion in $MgCNi_3$. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 424, 145-148	1.3	
3	Effect of residual stress on nematic domains in $BaFe_{2-x}Ni_xAs_2$ studied by angular magnetoresistance. <i>Chinese Physics B</i> , 2016 , 25, 057402	1.2	
2	One-step synthesis of $FeSe_{0.45}Te_{0.55}$ single crystals without excess Fe content. <i>AIP Advances</i> , 2022 , 12, 045227	1.5	
1	Bulk superconductivity in one-step grown $Fe(Te,Se)$ crystals free of interstitial iron by minor Mn doping. <i>Science China Materials</i> , 1	7.1	