

# Lei Shan

## 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.

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	One-step synthesis of FeSe <sub>0.45</sub> Te <sub>0.55</sub> single crystals without excess Fe content. <i>AIP Advances</i> , <b>2022</b> , 12, 045227	1.5	0
78	Surface morphology and electronic structure in stoichiometric superconductor CaKFe <sub>4</sub> As <sub>4</sub> probed by scanning tunneling microscopy/spectroscopy. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2021</b> , 64, 1	3.6	0
77	Substitution effect on the superconductivity in Mo <sub>3</sub> Re <sub>x</sub> Al <sub>2</sub> C with $\sqrt{3}\times\sqrt{3}$ structure prepared by microwave method*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 077401	1.2	0
76	Three-Dimensional Charge Density Wave and Surface-Dependent Vortex-Core States in a Kagome Superconductor CsV <sub>3</sub> Sb <sub>5</sub> . <i>Physical Review X</i> , <b>2021</b> , 11,	9.1	40
75	Tip-induced superconductivity commonly existing in the family of transition-metal dipnictides MP <sub>2</sub> . <i>Chinese Physics B</i> , <b>2021</b> , 30, 017304	1.2	1
74	Superconducting Interfaces between Weyl Semimetal and Normal Metal. <i>Advanced Quantum Technologies</i> , <b>2020</b> , 3, 2000020	4.3	2
73	Inelastic Electron Tunneling in 2H-Ta <sub>x</sub> Nb <sub>1-x</sub> Se <sub>2</sub> Evidenced by Scanning Tunneling Spectroscopy. <i>Physical Review Letters</i> , <b>2020</b> , 124, 106403	7.4	1
72	Interfacial Superconductivity on the Topological Semimetal Tungsten Carbide Induced by Metal Deposition. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907970	24	10
71	Two superconducting phases induced at point contacts on the Weyl semimetal TaAs. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	5
70	Pressure-Dependent Point-Contact Spectroscopy of Superconducting PbTaSe <sub>2</sub> Single Crystals. <i>Chinese Physics Letters</i> , <b>2020</b> , 37, 097403	1.8	2
69	Superconductivity at the Normal Metal/Dirac Semimetal Cd <sub>3</sub> As <sub>2</sub> Interface. <i>Chinese Physics Letters</i> , <b>2020</b> , 37, 077401	1.8	2
68	Tip-induced superconductivity on the topological semimetals TaAs <sub>2</sub> and NbAs <sub>2</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
67	Superconductivity induced at a point contact on the topological semimetal tungsten carbide. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	10
66	Distinction between critical current effects and intrinsic anomalies in the point-contact Andreev reflection spectra of unconventional superconductors. <i>Chinese Physics B</i> , <b>2018</b> , 27, 047403	1.2	0
65	Nonlinear uniaxial pressure dependence of the resistivity in Sr <sub>1-x</sub> Ba <sub>x</sub> Fe <sub>1.97</sub> Ni <sub>0.03</sub> As <sub>2</sub> . <i>Chinese Physics B</i> , <b>2018</b> , 27, 087402	1.2	1
64	Superconductivity in LaPd <sub>2</sub> Bi <sub>2</sub> with CaBe <sub>2</sub> Ge <sub>2</sub> -type structure. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2018</b> , 61, 1	3.6	4
63	Superconductivity at 10.4 K in a novel quasi-one-dimensional ternary molybdenum pnictide K <sub>2</sub> Mo <sub>3</sub> As <sub>3</sub> . <i>Science Bulletin</i> , <b>2018</b> , 63, 952-956	10.6	22

62	Pressure-induced topological phase transitions and strongly anisotropic magnetoresistance in bulk black phosphorus. <i>Physical Review B</i> , <b>2017</b> , 95,	3-3	24
61	Anisotropic electron-phonon coupling in the spinel oxide superconductor LiTi <sub>2</sub> O <sub>4</sub> . <i>Physical Review B</i> , <b>2017</b> , 95,	3-3	10
60	Transition from tunneling regime to local point contact realized on Ba <sub>0.6</sub> K <sub>0.4</sub> Fe <sub>2</sub> As <sub>2</sub> surface. <i>Chinese Physics B</i> , <b>2017</b> , 26, 067402	1.2	1
59	Normal-state gap in the parent cuprate Pr <sub>2</sub> CuO <sub>4</sub> . <i>Physical Review B</i> , <b>2017</b> , 96,	3-3	4
58	Proximity-Induced Superconductivity in New Superstructures on 2H-NbSe <sub>2</sub> Surface *. <i>Chinese Physics Letters</i> , <b>2017</b> , 34, 077403	1.8	1
57	Electronic specific heat in BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	4
56	Effect of residual stress on nematic domains in BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> studied by angular magnetoresistance. <i>Chinese Physics B</i> , <b>2016</b> , 25, 057402	1.2	
55	Nematic Quantum Critical Fluctuations in BaFe <sub>{2-x}Ni_{x}As_{2}</sub> . <i>Physical Review Letters</i> , <b>2016</b> , 117, 157002	7-4	24
54	Observation of a robust zero-energy bound state in iron-based superconductor Fe(Te,Se). <i>Nature Physics</i> , <b>2015</b> , 11, 543-546	16.2	130
53	Doping Induced Gap Anisotropy in Iron-Based Superconductors: a Point-Contact Andreev Reflection Study of BaFe <sub>2-x</sub> Ni <sub>x</sub> As <sub>2</sub> Single Crystals. <i>Chinese Physics Letters</i> , <b>2015</b> , 32, 077401	1.8	2
52	Observation of mode-like features in tunneling spectra of iron-based superconductors. <i>Chinese Physics B</i> , <b>2015</b> , 24, 077402	1.2	3
51	Tunneling spectroscopy of Al/AlO <sub>x</sub> /Pb subjected to hydrostatic pressure. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 202601	3-4	1
50	Close relationship between superconductivity and the bosonic mode in Ba <sub>0.6</sub> K <sub>0.4</sub> Fe <sub>2</sub> As <sub>2</sub> and Na(Fe <sub>0.975</sub> Co <sub>0.025</sub> )As. <i>Nature Physics</i> , <b>2013</b> , 9, 42-48	16.2	45
49	Evidence of a spin resonance mode in the iron-based superconductor Ba <sub>(0.6)</sub> K <sub>(0.4)</sub> Fe <sub>2</sub> As <sub>2</sub> from scanning tunneling spectroscopy. <i>Physical Review Letters</i> , <b>2012</b> , 108, 227002	7-4	45
48	Electron-boson coupling and two superconducting gaps in optimally electron-doped BaFe <sub>1.9</sub> Ni <sub>0.1</sub> As <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2012</b> , 86,	3-3	5
47	Vortex images on Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> observed directly by magnetic force microscopy. <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	19
46	Specific heat of optimally doped Ba(Fe <sub>1-x</sub> TM <sub>x</sub> ) <sub>2</sub> As <sub>2</sub> (TM = Co and Ni) single crystals at low temperatures: A multiband fitting. <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	6
45	Observation of ordered vortices with Andreev bound states in Ba <sub>0.6</sub> K <sub>0.4</sub> Fe <sub>2</sub> As <sub>2</sub> . <i>Nature Physics</i> , <b>2011</b> , 7, 325-331	16.2	96

44	Transport properties and asymmetric scattering in Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2011</b> , 84,	3-3	67
43	Evidence of multiple nodeless energy gaps in superconducting Ba <sub>0.6</sub> K <sub>0.4</sub> Fe <sub>2</sub> As <sub>2</sub> single crystals from scanning tunneling spectroscopy. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	23
42	Anisotropic structure of the order parameter in FeSe(0.45)Te(0.55) revealed by angle-resolved specific heat. <i>Nature Communications</i> , <b>2010</b> , 1, 112	17.4	76
41	Flux dynamics and vortex phase diagram in Ba(Fe <sub>1-x</sub> Cox) <sub>2</sub> As <sub>2</sub> single crystals revealed by magnetization and its relaxation. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	118
40	Superconductivity and phase diagrams of the 4d- and 5d-metal-doped iron arsenides SrFe <sub>2-x</sub> M <sub>x</sub> As <sub>2</sub> (M=Rh,Ir,Pd). <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	102
39	Roles of multiband effects and electron-hole asymmetry in the superconductivity and normal-state properties of Ba(Fe <sub>1-x</sub> Cox) <sub>2</sub> As <sub>2</sub> . <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	170
38	Low temperature specific heat of the hole-doped Ba <sub>0.6</sub> K <sub>0.4</sub> Fe <sub>2</sub> As <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	142
37	Physical properties of the noncentrosymmetric superconductor Ru <sub>7</sub> B <sub>3</sub> . <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	39
36	Annealing effect on the electron-doped superconductor Pr <sub>0.88</sub> LaCe <sub>0.12</sub> CuO <sub>4-δ</sub> . <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	11
35	Specific-heat measurement of a residual superconducting state in the normal state of underdoped Bi <sub>2-x</sub> Sr <sub>x</sub> La <sub>1-x</sub> CuO <sub>6+δ</sub> cuprate superconductors. <i>Physical Review Letters</i> , <b>2009</b> , 103, 067002	7.4	47
34	Normal state transport properties in single crystals of Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> and NdFeAsO <sub>1-x</sub> F <sub>x</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2009</b> , 469, 477-484	1-3	18
33	Multiple gaps in SmFeAsO <sub>0.9</sub> F <sub>0.1</sub> revealed by point-contact spectroscopy. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 015018	3-1	68
32	Point-contact spectroscopy of iron-based layered superconductor LaO <sub>0.9</sub> F <sub>0.1</sub> FeAs. <i>Europhysics Letters</i> , <b>2008</b> , 83, 57004	1.6	115
31	Magnetization relaxation and collective vortex pinning in the Fe-based superconductor SmFeAsO <sub>0.9</sub> F <sub>0.1</sub> . <i>Physical Review B</i> , <b>2008</b> , 78,	3-3	63
30	Angular dependence of resistivity in the superconducting state of NdFeAsO <sub>0.82</sub> F <sub>0.18</sub> single crystals. <i>Superconductor Science and Technology</i> , <b>2008</b> , 21, 105018	3-1	34
29	Isotropic s-wave pairing symmetry in non-centrosymmetric Re <sub>3</sub> W revealed by point-contact spectroscopy. <i>Superconductor Science and Technology</i> , <b>2008</b> , 21, 075011	3-1	17
28	Critical fields and anisotropy of NdFeAsO <sub>0.82</sub> F <sub>0.18</sub> single crystals. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 032503	3-4	157
27	Evidence for two energy gaps in superconducting Ba <sub>0.6</sub> K <sub>0.4</sub> Fe <sub>2</sub> As <sub>2</sub> single crystals and the breakdown of the Uemura plot. <i>Physical Review Letters</i> , <b>2008</b> , 101, 257006	7.4	94

26	Weak-coupling Bardeen-Cooper-Schrieffer superconductivity in the electron-doped cuprate superconductors. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	29
25	Distinction between the normal-state gap and superconducting gap of electron-doped cuprates. <i>Physical Review B</i> , <b>2008</b> , 78,	3-3	8
24	$\mu$ characteristics of the vortex state in MgB2 thin films. <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	19
23	Peak effect due to Josephson vortices in superconducting Pr <sub>0.88</sub> LaCe <sub>0.12</sub> CuO <sub>4</sub> single crystals. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	5
22	Possible nodeless superconductivity in the noncentrosymmetric superconductor Mg <sub>12</sub> P <sub>19</sub> B <sub>16</sub> . <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	27
21	Weak-coupling d-wave BCS superconductivity and unpaired electrons in overdoped La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> single crystals. <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	39
20	Magnetic fluctuations in n-type high-T <sub>c</sub> superconductors reveal breakdown of fermiology: Experiments and Fermi-liquid/RPA calculations. <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	19
19	Large anisotropic normal-state magnetoresistance in clean MgB2 thin films. <i>Physical Review Letters</i> , <b>2006</b> , 96, 167003	7-4	55
18	Reversible magnetization and critical fluctuations in systematically doped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> single crystals. <i>Physical Review B</i> , <b>2006</b> , 74,	3-3	16
17	Electrical resistivity and Andreev reflection spectroscopy of the superconducting oxide spinel LiTi <sub>2</sub> O <sub>4</sub> . <i>Physical Review B</i> , <b>2006</b> , 73,	3-3	15
16	Vortex overlapping in a BCS type-II superconductor revealed by Andreev reflection spectroscopy. <i>Physical Review B</i> , <b>2006</b> , 73,	3-3	16
15	Fabrication and superconductivity of Na <sub>x</sub> Ta <sub>5</sub> S <sub>2</sub> crystals. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	94
14	Field and temperature dependence of thermally activated flux flow resistance in Tl <sub>2</sub> Ba <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> thin films. <i>Physica C: Superconductivity and Its Applications</i> , <b>2005</b> , 423, 175-180	1-3	4
13	Thermally activated flux motion in MgCNi <sub>3</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2005</b> , 424, 145-148	1-3	
12	Competition of superconductivity and charge density wave order in Na <sub>x</sub> Ta <sub>5</sub> S <sub>2</sub> single crystals. <i>Science and Technology of Advanced Materials</i> , <b>2005</b> , 6, 736-739	7-1	7
11	Bulk evidence for s-wave pairing symmetry in electron-doped infinite-layer cuprate Sr <sub>0.9</sub> La <sub>0.1</sub> CuO <sub>2</sub> . <i>Europhysics Letters</i> , <b>2005</b> , 69, 263-269	1-6	22
10	Pseudogap, superconducting energy scale, and Fermi arcs of underdoped cuprate superconductors. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	35
9	Manipulating vortex motion by thermal and Lorentz force in high-temperature superconductors. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	3

8	Competition between BCS superconductivity and ferromagnetic spin fluctuations in MgCNi <sub>3</sub> . <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	18
7	Superconductivity in thiospinel Cu <sub>1.3</sub> K <sub>0.2</sub> Co <sub>1.5</sub> S <sub>4</sub> . <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	4
6	Distinct pairing symmetries in Nd <sub>1.85</sub> Ce <sub>0.15</sub> CuO <sub>4</sub> and La <sub>1.89</sub> Sr <sub>0.11</sub> CuO <sub>4</sub> single crystals: Evidence from comparative tunneling measurements. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	40
5	Evidence for s-wave pairing from measurement of the lower critical field in MgCNi <sub>3</sub> . <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	5
4	Two-dimensional scaling of resistance in flux flow region in Tl <sub>2</sub> Ba <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> thin films. <i>Physica C: Superconductivity and Its Applications</i> , <b>2004</b> , 415, 139-144	1-3	1
3	s-wave pairing in MgCNi <sub>3</sub> revealed by point contact tunneling. <i>Physical Review B</i> , <b>2003</b> , 68,	3-3	59
2	Influence of carbon concentration on the superconductivity in MgC <sub>x</sub> Ni <sub>3</sub> . <i>Physical Review B</i> , <b>2003</b> , 68,	3-3	42
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	