

Bing Lv

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.

105 papers	3,438 citations	26 h-index	57 g-index
111 ext. papers	3,877 ext. citations	5 avg, IF	4.99 L-index

#	Paper	IF	Citations
105	Gate-Tunable Transport in Quasi-One-Dimensional Bi ₂ Te ₃ Field Effect Transistors.. <i>Nano Letters</i> , 2022 , 1, 1-5	11.5	2
104	Determination of the interface band alignment of Mg ₂ Si/4H-SiC heterojunction for potential photodetector application. <i>Surface and Interface Analysis</i> , 2022 , 54, 270-276	1.5	0
103	Interfacial Superconductivity Achieved in Parent AEF ₂ As (AE = Ca, Sr, Ba) by a Simple and Realistic Annealing Route. <i>Nano Letters</i> , 2021 , 21, 2191-2198	11.5	1
102	Elastic constants of cubic boron phosphide and boron arsenide. <i>Physical Review Materials</i> , 2021 , 5, 014101	3.2	3
101	New Verbeekite-type polymorphic phase and rich phase diagram in the PdSe ₂ -Te system. <i>Physical Review B</i> , 2021 , 104, 154401	3.3	9
100	X-ray photoelectron spectroscopy characterization of band offsets of MgO/Mg ₂ Si and SiO ₂ /Mg ₂ Si heterojunctions. <i>Surface and Interface Analysis</i> , 2021 , 53, 852-859	1.5	2
99	The external electric-field-induced Schottky-to-ohmic contact transition in graphene/As ₂ S ₃ interface: A study by the first principles. <i>International Journal of Energy Research</i> , 2021 , 45, 4727-4734	4.5	3
98	Impact of the vertical strain on the Schottky barrier height for graphene/AlN heterojunction: a study by the first-principles method. <i>European Physical Journal B</i> , 2021 , 94, 1	1.2	2
97	Effect of isotope disorder on the Raman spectra of cubic boron arsenide. <i>Physical Review Materials</i> , 2021 , 5, 014101	3.2	2
96	Chemistry in Superconductors. <i>Chemical Reviews</i> , 2021 , 121, 2966-2991	68.1	7
95	Room-Temperature Topological Phase Transition in Quasi-One-Dimensional Material Bi ₄ I ₄ . <i>Physical Review X</i> , 2021 , 11, 011044	9.1	4
94	New layered quaternary BaCu ₆ Sn ₂ As _{4-x} and BaCu ₆ Sn ₂ P _{4-x} phases: crystal growth and physical properties. <i>Journal of Alloys and Compounds</i> , 2021 , 892, 162111	5.7	0
93	The Degradation Mechanism of Mg ₂ Si during Exploitation at High Temperature. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2100425	1.3	2
92	Tunable Schottky Barrier and Interfacial Electronic Properties in Graphene/ZnSe Heterostructures. <i>Frontiers in Chemistry</i> , 2021 , 9, 744977	5	0
91	Enhanced superconductivity in the Se-substituted 1T-PdTe ₂ . <i>Physical Review Materials</i> , 2021 , 5, 014101	3.2	4
90	Canted antiferromagnetism in the quasi-one-dimensional iron chalcogenide BaFe ₂ Se ₄ . <i>Physical Review B</i> , 2020 , 102, 154401	3.3	2
89	Crystal Structure and Electronic Properties of New Compound ZrPtSe. <i>Inorganic Chemistry</i> , 2020 , 59, 8196-8202	5.1	0

88	Extrapolated Defect Transition Level in Two-Dimensional Materials: The Case of Charged Native Point Defects in Monolayer Hexagonal Boron Nitride. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17055-17061	9.5	8
87	Peroxide-Templated Assembly of a Trimetal Neodymium Complex Single-Molecule Magnet. <i>Inorganic Chemistry</i> , 2020 , 59, 10379-10383	5.1	2
86	Doping dependence and high-pressure studies on $\text{Eu}_{1-x}\text{Ca}_x\text{Fe}_2\text{As}_2$ ($0 \leq x \leq 1$). <i>Superconductor Science and Technology</i> , 2020 , 33, 095010	3.1	0
85	Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. <i>Science</i> , 2020 , 367, 555-559	33.3	90
84	Thermal transport properties of novel two-dimensional CSe. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 17833-17841	3.6	4
83	Exploration of n- and p-type doping for two-dimensional gallium nitride: charged defect calculation with first principles. <i>European Physical Journal B</i> , 2020 , 93, 1	1.2	1
82	Novel Polymorphic Phase of BaCu_2As_2 : Impact of Flux for New Phase Formation in Crystal Growth. <i>Crystal Growth and Design</i> , 2020 , 20, 5922-5930	3.5	2
81	Native Point Defects in Monolayer Hexagonal Boron Phosphide from First Principles. <i>Journal of Electronic Materials</i> , 2020 , 49, 5782-5789	1.9	3
80	The External Electric Field-Induced Tunability of the Schottky Barrier Height in Graphene/AlN Interface: A Study by First-Principles. <i>Nanomaterials</i> , 2020 , 10,	5.4	1
79	Synthesis and Structure of a Nonstoichiometric ZrPtSb Compound. <i>Inorganic Chemistry</i> , 2019 , 58, 12017-12024	3.2	1
78	Surface terminations and layer-resolved tunneling spectroscopy of the 122 iron pnictide superconductors. <i>Physical Review B</i> , 2019 , 99,	3.3	12
77	Low-temperature microstructural studies on superconducting CaFeAs . <i>Scientific Reports</i> , 2019 , 9, 6393	4.9	3
76	The Role of Crystal Growth Conditions on the Magnetic Properties of LnFeCoSb ($\text{Ln} = \text{La}$ and Ce). <i>Inorganic Chemistry</i> , 2019 , 58, 6028-6036	5.1	2
75	Thermal expansion coefficients of high thermal conducting BAs and BP materials. <i>Applied Physics Letters</i> , 2019 , 115, 011901	3.4	8
74	Spacing dependent and cation doping independent superconductivity in intercalated 1T 2D SnSe . <i>2D Materials</i> , 2019 , 6, 045048	5.9	13
73	Tunable Electronic Properties of Graphene/g-AlN Heterostructure: The Effect of Vacancy and Strain Engineering. <i>Nanomaterials</i> , 2019 , 9,	5.4	19
72	Interface-Induced and Interface-Enhanced Superconductivity. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 7-15	1.5	1
71	Investigation on the reported superconductivity in intercalated black phosphorus. <i>Materials Today Physics</i> , 2018 , 4, 7-11	8	5

70	Seeded growth of boron arsenide single crystals with high thermal conductivity. <i>Applied Physics Letters</i> , 2018 , 112, 031903	3.4	3 ¹
69	Superconductivity from site-selective Ru doping studies in Zr ₅ Ge ₃ compound. <i>New Journal of Physics</i> , 2018 , 20, 013009	2.9	3
68	Possible interface superconductivity in rare-earth-doped CaFe ₂ As ₂ and undoped CaFe ₂ As ₂ . <i>Quantum Studies: Mathematics and Foundations</i> , 2018 , 5, 103-109	0.6	2
67	CBED Investigations of Boron Monoarsenide Crystals. <i>Microscopy and Microanalysis</i> , 2018 , 24, 30-31	0.5	
66	High Thermal Conductivity in Isotopically Enriched Cubic Boron Phosphide. <i>Advanced Functional Materials</i> , 2018 , 28, 1805116	15.6	5 ¹
65	Superconductivity and phase diagram in a transition metal doped Zr ₅ Ge ₃ compound. <i>Superconductor Science and Technology</i> , 2018 , 31, 085001	3.1	
64	High thermal conductivity in cubic boron arsenide crystals. <i>Science</i> , 2018 , 361, 579-581	33.3	220
63	New Strategy for Black Phosphorus Crystal Growth through Ternary Clathrate. <i>Crystal Growth and Design</i> , 2017 , 17, 6579-6585	3.5	24
62	⁵¹ Y NMR observation of ferromagnetic and antiferromagnetic spin fluctuations in the collapsed tetragonal phase of YFe ₂ (Ge,Si) ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	3
61	Superconductivity in the ternary compound SrPt ₁₀ P ₄ with complex new structure. <i>Physical Review Materials</i> , 2017 , 1,	3.2	4
60	Ultrafast dynamics of quasiparticles and coherent acoustic phonons in slightly underdoped (BaK)Fe ₂ As ₂ . <i>Scientific Reports</i> , 2016 , 6, 25962	4.9	2
59	Evidence for defect-induced superconductivity up to 49 K in (Ca _{1-x} R _x)Fe ₂ As ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	20
58	Interface-induced superconductivity at ~25 K at ambient pressure in undoped CaFe ₂ As ₂ single crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12968-12973	11.5	15
57	Tip-Pressure-Induced Incoherent Energy Gap in CaFe ₂ As ₂ . <i>Chinese Physics Letters</i> , 2016 , 33, 067401	1.8	3
56	n-type thermoelectric material Mg ₂ Sn _{0.75} Ge _{0.25} for high power generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3269-74	11.5	152
55	High-Pressure Resistivity of YFe ₂ Si ₂ and Magnetic Studies of Y _{1-x} Ho _y Fe ₂ Si ₂ and YFe ₂ (Si _{1-x} Ge _x) ₂ Systems. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 1207-1216	1.5	6
54	Hole-doped cuprate high temperature superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2015 , 514, 290-313	1.3	64
53	Experimental study of the proposed super-thermal-conductor: BAs. <i>Applied Physics Letters</i> , 2015 , 106, 074105	3.4	52

52	High-pressure and doping studies of the superconducting antiperovskite SrPt ₃ P. <i>Physical Review B</i> , 2015 , 91,	3.3	12
51	Chemical doping and high-pressure studies of layered PdBi ₂ single crystals. <i>Physical Review B</i> , 2015 , 92,	3.3	15
50	Observation of universal strong orbital-dependent correlation effects in iron chalcogenides. <i>Nature Communications</i> , 2015 , 6, 7777	17.4	110
49	Effects of Nickel Doping on the Multiferroic and Magnetic Phases of MnWO ₄ . <i>Integrated Ferroelectrics</i> , 2015 , 166, 17-29	0.8	1
48	Synthesis, structure, and superconductivity in the new-structure-type compound: SrPt ₆ P ₂ . <i>Inorganic Chemistry</i> , 2015 , 54, 1049-54	5.1	9
47	Anomalous vibrational properties of cubic boron arsenide. <i>Physical Review B</i> , 2014 , 89,	3.3	26
46	Observation of pseudogaplike feature above T _c in LiFeAs by ultrafast optical spectroscopy. <i>Physical Review B</i> , 2014 , 90,	3.3	5
45	The unusually high T _c in rare-earth-doped single crystalline CaFe ₂ As ₂ . <i>Philosophical Magazine</i> , 2014 , 94, 2562-2570	1.6	12
44	Meissner and mesoscopic superconducting states in 1 \times unit-cell FeSe films. <i>Physical Review B</i> , 2014 , 90,	3.3	38
43	Magnetic and structural relationship of RFe ₂ Si ₂ and R(Fe(1-x)M(x)) ₂ Si ₂ (x = 0-1) systems (R = La, Y and Lu, M = Ni, Mn and Cu). <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 476002	1.8	4
42	Why is the T _c So High in Fe-Based Pnictide and Chalcogenide Superconductors?. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1684, 16		3
41	Comparison of Pr-doped Ca 122 and Ca 112 Pnictides by Low-field Microwave Absorption Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1684, 10		
40	Observation of temperature-induced crossover to an orbital-selective Mott phase in A(x)Fe(2-y)Se ₂ (A=K, Rb) superconductors. <i>Physical Review Letters</i> , 2013 , 110, 067003	7.4	158
39	Anomalous hysteresis as evidence for a magnetic-field-induced chiral superconducting state in LiFeAs. <i>Physical Review B</i> , 2013 , 87,	3.3	13
38	Superconductivity in the Mn ₅ Si ₃ -type Zr ₅ Sb ₃ system. <i>Physical Review B</i> , 2013 , 88,	3.3	18
37	Experimental Investigation of the Electronic Structure of Ca _{0.83} La _{0.17} Fe ₂ As ₂ . <i>Chinese Physics Letters</i> , 2013 , 30, 017402	1.8	11
36	Nanoscale surface element identification and dopant homogeneity in the high-T _c superconductor Pr _x Ca _{1-x} Fe ₂ As ₂ . <i>Physical Review B</i> , 2013 , 87,	3.3	27
35	The Rise of T _c : A Promising Paradigm via Interfacial Mechanism. <i>Journal of Physics: Conference Series</i> , 2013 , 449, 012014	0.3	3

34	Absence of zero-energy surface bound states in $\text{Cu}_x\text{Bi}_2\text{Se}_3$ studied via Andreev reflection spectroscopy. <i>Physical Review B</i> , 2013 , 88,	3.3	52
33	Disorder-induced bulk superconductivity in ZrTe_3 single crystals via growth control. <i>Physical Review B</i> , 2013 , 87,	3.3	29
32	Thermodynamic evidence for pressure-induced bulk superconductivity in the FeAs pnictide superconductor CaFe_2As_2 . <i>New Journal of Physics</i> , 2012 , 14, 053034	2.9	9
31	Two-gap features in the specific heat of $(\text{M},\text{K})\text{Fe}_2\text{As}_2$ ($\text{M} = \text{Ba}, \text{Sr}$). <i>Physical Review B</i> , 2011 , 84,	3.3	7
30	Electronic band structure of SrCu_4As_2 and KCu_4As_2 : Metals with diversely doped CuAs layers. <i>Physical Review B</i> , 2011 , 84,	3.3	2
29	Carrier contribution to the specific heat coefficient of $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. <i>Physical Review B</i> , 2011 , 83,	3.3	3
28	Incommensurate spin-density wave and a multiband superconducting phase in Na_xFeAs revealed by nuclear magnetic resonance. <i>Physical Review B</i> , 2011 , 84,	3.3	13
27	Raman scattering study of electron-doped $\text{Pr}_x\text{Ca}_{1-x}\text{Fe}_2\text{As}_2$ superconductors. <i>Physical Review B</i> , 2011 , 84,	3.3	14
26	Doping dependence of phase-separation morphology in $(\text{Sr},\text{K})\text{Fe}_2\text{As}_2$. <i>Physical Review B</i> , 2011 , 83,	3.3	2
25	High-pressure study of superconducting and nonsuperconducting single crystals of the same nominal composition $\text{Rb}_{0.8}\text{Fe}_2\text{Se}_2$. <i>Physical Review B</i> , 2011 , 84,	3.3	10
24	Unusual superconducting state at 49 K in electron-doped CaFe_2As_2 at ambient pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15705-9	11.5	110
23	^{75}As nuclear magnetic resonance study of antiferromagnetic fluctuations in the normal state of LiFeAs . <i>Physical Review B</i> , 2010 , 81,	3.3	48
22	Lower critical field, anisotropy, and two-gap features of LiFeAs . <i>Physical Review B</i> , 2010 , 81,	3.3	28
21	Evidence for multiple gaps in the specific heat of LiFeAs crystals. <i>Physical Review B</i> , 2010 , 81,	3.3	40
20	Critical scaling of transport properties in the phase diagram of iron pnictide superconductors $\text{KxSr}_{1-x}\text{Fe}_2\text{As}_2$ and $\text{KxBa}_{1-x}\text{Fe}_2\text{As}_2$. <i>Journal of Applied Physics</i> , 2010 , 107, 09E145	2.5	8
19	Superconductivity in ternary iron pnictides: AFe_2As_2 ($\text{A} = \text{alkali metal}$) and LiFeAs . <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S276-S279	1.3	25
18	Unusual doping dependence of superconductivity in Na_yFeAs . <i>Physical Review B</i> , 2009 , 79,	3.3	19
17	Evidence of quantum criticality in the phase diagram of $\text{KxSr}_{1-x}\text{Fe}_2\text{As}_2$ from measurements of transport and thermoelectricity. <i>Physical Review B</i> , 2009 , 79,	3.3	43

16	Fabrication, Characterization and Study of MOD Multi-Layer YBCO Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 3379-3382	1.8	6
15	The superconductor $KxSr_{1-x}Fe_2As_2$: normal state and superconducting properties. <i>New Journal of Physics</i> , 2009 , 11, 025013	2.9	31
14	The synthesis and characterization of $LiFeAs$ and $NaFeAs$. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 326-331	1.3	110
13	Determination of foreign phases in $FeAs$ based superconducting systems. <i>Hyperfine Interactions</i> , 2009 , 191, 61-65	0.8	7
12	Pressure shift of the superconducting T_c of $LiFeAs$. <i>Europhysics Letters</i> , 2009 , 85, 27005	1.6	47
11	In-Field J_c Enhancement on Ti-Sheathed MgB_2 Wires Doped With TiC Nanoparticles. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 2760-2762	1.8	2
10	Determination of foreign phases in $FeAs$ based superconducting systems 2009 , 391-395		
9	$LiFeAs$: An intrinsic $FeAs$ -based superconductor with $T_c=18$ K. <i>Physical Review B</i> , 2008 , 78,	3.3	633
8	Superconducting Fe-based compounds $(A_{1-x}Sr_x)Fe_2As_2$ with $A=K$ and Cs with transition temperatures up to 37 K. <i>Physical Review Letters</i> , 2008 , 101, 107007	7.4	635
7	MOD multi-layer YBCO films on single-crystal substrate. <i>Superconductor Science and Technology</i> , 2008 , 21, 045015	3.1	13
6	Raman-scattering study of $KxSr_{1-x}Fe_2As_2$ ($x=0.0,0.4$). <i>Physical Review B</i> , 2008 , 78,	3.3	78
5	Pressure-induced shift of T_c in $KxSr_{1-x}Fe_2As_2$ ($x=0.2,0.4,0.7$): Analogy to the high- T_c cuprate superconductors. <i>Physical Review B</i> , 2008 , 78,	3.3	42
4	Superconductivity in $R(O,F)FeAs$, AFe_2As_2 , $(A,A')Fe_2As_2$, $AFeAs$ and $LaNFeAs$, where R = Rare Earth, A = Alkaline, and A' = Alkaline Earth. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 72-77	1.5	9
3	Effects of MgO impurities and micro-cracks on the critical current density of Ti-sheathed MgB_2 wires. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 457, 47-54	1.3	4
2	Negative effects of crystalline-SiC doping on the critical current density in Ti-sheathed $MgB_2(SiC)$ superconducting wires. <i>Superconductor Science and Technology</i> , 2007 , 20, 697-703	3.1	6
1	Development of Ti-sheathed MgB_2 wires with high critical current density. <i>Superconductor Science and Technology</i> , 2006 , 19, 1146-1151	3.1	15