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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	Superconducting Fe-based compounds (A <sub>1-x</sub> Sr <sub>x</sub> )Fe <sub>2</sub> As <sub>2</sub> with A=K and Cs with transition temperatures up to 37 K. <i>Physical Review Letters</i> , <b>2008</b> , 101, 107007	7.4	635
104	LiFeAs: An intrinsic FeAs-based superconductor with T <sub>c</sub> =18 K. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	633
103	High thermal conductivity in cubic boron arsenide crystals. <i>Science</i> , <b>2018</b> , 361, 579-581	33.3	220
102	Observation of temperature-induced crossover to an orbital-selective Mott phase in A(x)Fe(2-y)Se <sub>2</sub> (A=K, Rb) superconductors. <i>Physical Review Letters</i> , <b>2013</b> , 110, 067003	7.4	158
101	n-type thermoelectric material Mg <sub>2</sub> Sn <sub>0.75</sub> Ge <sub>0.25</sub> for high power generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3269-74	11.5	152
100	Observation of universal strong orbital-dependent correlation effects in iron chalcogenides. <i>Nature Communications</i> , <b>2015</b> , 6, 7777	17.4	110
99	The synthesis and characterization of LiFeAs and NaFeAs. <i>Physica C: Superconductivity and Its Applications</i> , <b>2009</b> , 469, 326-331	1.3	110
98	Unusual superconducting state at 49 K in electron-doped CaFe <sub>2</sub> As <sub>2</sub> at ambient pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 15705-9	11.5	110
97	Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. <i>Science</i> , <b>2020</b> , 367, 555-559	33.3	90
96	Raman-scattering study of K <sub>x</sub> Sr <sub>1-x</sub> Fe <sub>2</sub> As <sub>2</sub> (x=0.0,0.4). <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	78
95	Hole-doped cuprate high temperature superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2015</b> , 514, 290-313	1.3	64
94	Experimental study of the proposed super-thermal-conductor: BAs. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 074105	3.4	52
93	Absence of zero-energy surface bound states in Cu <sub>x</sub> Bi <sub>2</sub> Se <sub>3</sub> studied via Andreev reflection spectroscopy. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	52
92	High Thermal Conductivity in Isotopically Enriched Cubic Boron Phosphide. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805116	15.6	51
91	A <sup>75</sup> S nuclear magnetic resonance study of antiferromagnetic fluctuations in the normal state of LiFeAs. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	48
90	Pressure shift of the superconducting T <sub>c</sub> of LiFeAs. <i>Europhysics Letters</i> , <b>2009</b> , 85, 27005	1.6	47
89	Evidence of quantum criticality in the phase diagram of K <sub>x</sub> Sr <sub>1-x</sub> Fe <sub>2</sub> As <sub>2</sub> from measurements of transport and thermoelectricity. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	43

88	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> , <b>2008</b> , 78,	3:3	42
87	Evidence for multiple gaps in the specific heat of LiFeAs crystals. <i>Physical Review B</i> , <b>2010</b> , 81,	3:3	40
86	Meissner and mesoscopic superconducting states in 1 $\mu$ unit-cell FeSe films. <i>Physical Review B</i> , <b>2014</b> , 90,	3:3	38
85	Seeded growth of boron arsenide single crystals with high thermal conductivity. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 031903	3:4	31
84	The superconductor $KxSr_{1-x}Fe_2As_2$ : normal state and superconducting properties. <i>New Journal of Physics</i> , <b>2009</b> , 11, 025013	2:9	31
83	Disorder-induced bulk superconductivity in ZrTe <sub>3</sub> single crystals via growth control. <i>Physical Review B</i> , <b>2013</b> , 87,	3:3	29
82	Lower critical field, anisotropy, and two-gap features of LiFeAs. <i>Physical Review B</i> , <b>2010</b> , 81,	3:3	28
81	Nanoscale surface element identification and dopant homogeneity in the high- $T_c$ superconductor $PrxCa_{1-x}Fe_2As_2$ . <i>Physical Review B</i> , <b>2013</b> , 87,	3:3	27
80	Anomalous vibrational properties of cubic boron arsenide. <i>Physical Review B</i> , <b>2014</b> , 89,	3:3	26
79	Superconductivity in ternary iron pnictides: $AFe_2As_2$ (A = alkali metal) and LiFeAs. <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, S276-S279	1:3	25
78	New Strategy for Black Phosphorus Crystal Growth through Ternary Clathrate. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 6579-6585	3:5	24
77	Evidence for defect-induced superconductivity up to 49 K in $(Ca_{1-x}Rx)Fe_2As_2$ . <i>Physical Review B</i> , <b>2016</b> , 93,	3:3	20
76	Unusual doping dependence of superconductivity in NaFeAs. <i>Physical Review B</i> , <b>2009</b> , 79,	3:3	19
75	Tunable Electronic Properties of Graphene/g-AlN Heterostructure: The Effect of Vacancy and Strain Engineering. <i>Nanomaterials</i> , <b>2019</b> , 9,	5:4	19
74	Superconductivity in the Mn <sub>5</sub> Si <sub>3</sub> -type Zr <sub>5</sub> Sb <sub>3</sub> system. <i>Physical Review B</i> , <b>2013</b> , 88,	3:3	18
73	Interface-induced superconductivity at ~25 K at ambient pressure in undoped CaFe <sub>2</sub> As <sub>2</sub> single crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 12968-12973	11:5	15
72	Chemical doping and high-pressure studies of layered $PdBi_2$ single crystals. <i>Physical Review B</i> , <b>2015</b> , 92,	3:3	15
71	Development of Ti-sheathed MgB <sub>2</sub> wires with high critical current density. <i>Superconductor Science and Technology</i> , <b>2006</b> , 19, 1146-1151	3:1	15

70	Raman scattering study of electron-doped $\text{PrxCa}_{1-x}\text{Fe}_2\text{As}_2$ superconductors. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	14
69	Spacing dependent and cation doping independent superconductivity in intercalated 1T 2D $\text{SnSe}_2$ . <i>2D Materials</i> , <b>2019</b> , 6, 045048	5.9	13
68	Anomalous hysteresis as evidence for a magnetic-field-induced chiral superconducting state in $\text{LiFeAs}$ . <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	13
67	Incommensurate spin-density wave and a multiband superconducting phase in $\text{NaFeAs}$ revealed by nuclear magnetic resonance. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	13
66	MOD multi-layer YBCO films on single-crystal substrate. <i>Superconductor Science and Technology</i> , <b>2008</b> , 21, 045015	3.1	13
65	Surface terminations and layer-resolved tunneling spectroscopy of the 122 iron pnictide superconductors. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	12
64	High-pressure and doping studies of the superconducting antiperovskite $\text{SrPt}_3\text{P}$ . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	12
63	The unusually high $T_c$ in rare-earth-doped single crystalline $\text{CaFe}_2\text{As}_2$ . <i>Philosophical Magazine</i> , <b>2014</b> , 94, 2562-2570	1.6	12
62	Experimental Investigation of the Electronic Structure of $\text{Ca}_{0.83}\text{La}_{0.17}\text{Fe}_2\text{As}_2$ . <i>Chinese Physics Letters</i> , <b>2013</b> , 30, 017402	1.8	11
61	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> , <b>2011</b> , 84,	3.3	10
60	Synthesis, structure, and superconductivity in the new-structure-type compound: $\text{SrPt}_6\text{P}_2$ . <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 1049-54	5.1	9
59	Thermodynamic evidence for pressure-induced bulk superconductivity in the FeAs pnictide superconductor $\text{CaFe}_2\text{As}_2$ . <i>New Journal of Physics</i> , <b>2012</b> , 14, 053034	2.9	9
58	Superconductivity in $\text{R}(\text{O},\text{F})\text{FeAs}$ , $\text{AFe}_2\text{As}_2$ , $(\text{A},\text{A}')\text{Fe}_2\text{As}_2$ , $\text{AFeAs}$ and $\text{LaNFeAs}$ , where R = Rare Earth, A = Alkaline, and A' = Alkaline Earth. <i>Journal of the Physical Society of Japan</i> , <b>2008</b> , 77, 72-77	1.5	9
57	New Verbeekite-type polymorphic phase and rich phase diagram in the $\text{PdSe}_2\text{-Te}_x$ system. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	9
56	Extrapolated Defect Transition Level in Two-Dimensional Materials: The Case of Charged Native Point Defects in Monolayer Hexagonal Boron Nitride. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17055-17061	9.5	8
55	Thermal expansion coefficients of high thermal conducting BAs and BP materials. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 011901	3.4	8
54	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> , <b>2010</b> , 107, 09E145	2.5	8
53	Determination of foreign phases in FeAs based superconducting systems. <i>Hyperfine Interactions</i> , <b>2009</b> , 191, 61-65	0.8	7

52	Two-gap features in the specific heat of (M,K)Fe <sub>2</sub> As <sub>2</sub> (M = Ba, Sr). <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	7
51	Chemistry in Superconductors. <i>Chemical Reviews</i> , <b>2021</b> , 121, 2966-2991	68.1	7
50	High-Pressure Resistivity of YFe <sub>2</sub> Si <sub>2</sub> and Magnetic Studies of Y <sub>1-x</sub> Ho <sub>y</sub> Fe <sub>2</sub> Si <sub>2</sub> and YFe <sub>2</sub> (Si <sub>1-x</sub> Ge <sub>x</sub> ) <sub>2</sub> Systems. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2015</b> , 28, 1207-1216	1.5	6
49	Fabrication, Characterization and Study of MOD Multi-Layer YBCO Films. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 3379-3382	1.8	6
48	Negative effects of crystalline-SiC doping on the critical current density in Ti-sheathed MgB <sub>2</sub> (SiC) <sub>y</sub> superconducting wires. <i>Superconductor Science and Technology</i> , <b>2007</b> , 20, 697-703	3.1	6
47	Investigation on the reported superconductivity in intercalated black phosphorus. <i>Materials Today Physics</i> , <b>2018</b> , 4, 7-11	8	5
46	Observation of pseudogaplike feature above T <sub>c</sub> in LiFeAs by ultrafast optical spectroscopy. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	5
45	Magnetic and structural relationship of RFe <sub>2</sub> Si <sub>2</sub> and R(Fe <sub>1-x</sub> M <sub>x</sub> ) <sub>2</sub> Si <sub>2</sub> (x = 0-1) systems (R = La, Y and Lu, M = Ni, Mn and Cu). <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 476002	1.8	4
44	Effects of MgO impurities and micro-cracks on the critical current density of Ti-sheathed MgB <sub>2</sub> wires. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 457, 47-54	1.3	4
43	Superconductivity in the ternary compound SrPt <sub>10</sub> P <sub>4</sub> with complex new structure. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	4
42	Thermal transport properties of novel two-dimensional CSe. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 17833-17841	3.6	4
41	Room-Temperature Topological Phase Transition in Quasi-One-Dimensional Material Bi <sub>4</sub> I <sub>4</sub> . <i>Physical Review X</i> , <b>2021</b> , 11,	9.1	4
40	Enhanced superconductivity in the Se-substituted 1T-PdTe <sub>2</sub> . <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	4
39	Low-temperature microstructural studies on superconducting CaFeAs. <i>Scientific Reports</i> , <b>2019</b> , 9, 6393	4.9	3
38	Superconductivity from site-selective Ru doping studies in Zr <sub>5</sub> Ge <sub>3</sub> compound. <i>New Journal of Physics</i> , <b>2018</b> , 20, 013009	2.9	3
37	<sup>Y</sup> 89 NMR observation of ferromagnetic and antiferromagnetic spin fluctuations in the collapsed tetragonal phase of YFe <sub>2</sub> (Ge,Si) <sub>2</sub> . <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	3
36	Why is the T <sub>c</sub> So High in Fe-Based Pnictide and Chalcogenide Superconductors?. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1684, 16		3
35	The Rise of T <sub>c</sub> : A Promising Paradigm via Interfacial Mechanism. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 449, 012014	0.3	3

34	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> , <b>2011</b> , 83,	3.3	3
33	Native Point Defects in Monolayer Hexagonal Boron Phosphide from First Principles. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 5782-5789	1.9	3
32	Elastic constants of cubic boron phosphide and boron arsenide. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	3
31	Tip-Pressure-Induced Incoherent Energy Gap in $\text{CaFe}_2\text{As}_2$ . <i>Chinese Physics Letters</i> , <b>2016</b> , 33, 067401	1.8	3
30	The external electric-field-induced Schottky-to-ohmic contact transition in graphene/ $\text{As}_2\text{S}_3$ interface: A study by the first principles. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 4727-4734	4.5	3
29	The Role of Crystal Growth Conditions on the Magnetic Properties of $\text{LnFeCoSb}$ ( $\text{Ln} = \text{La}$ and $\text{Ce}$ ). <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 6028-6036	5.1	2
28	Canted antiferromagnetism in the quasi-one-dimensional iron chalcogenide $\text{BaFe}_2\text{Se}_4$ . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
27	Peroxide-Templated Assembly of a Trimetal Neodymium Complex Single-Molecule Magnet. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 10379-10383	5.1	2
26	Possible interface superconductivity in rare-earth-doped $\text{CaFe}_{(2)}\text{As}_{(2)}$ and undoped $\text{CaFe}_{(2)}\text{As}_{(2)}$ . <i>Quantum Studies: Mathematics and Foundations</i> , <b>2018</b> , 5, 103-109	0.6	2
25	Ultrafast dynamics of quasiparticles and coherent acoustic phonons in slightly underdoped $(\text{BaK})\text{Fe}_2\text{As}_2$ . <i>Scientific Reports</i> , <b>2016</b> , 6, 25962	4.9	2
24	Electronic band structure of $\text{SrCu}_4\text{As}_2$ and $\text{KCu}_4\text{As}_2$ : Metals with diversely doped CuAs layers. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	2
23	Doping dependence of phase-separation morphology in $(\text{Sr},\text{K})\text{Fe}_2\text{As}_2$ . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	2
22	In-Field $J_{\text{C}}$ Enhancement on Ti-Sheathed $\text{MgB}_2$ Wires Doped With TiC Nanoparticles. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 2760-2762	1.8	2
21	Gate-Tunable Transport in Quasi-One-Dimensional Bil Field Effect Transistors.. <i>Nano Letters</i> , <b>2022</b> , ,	11.5	2
20	Novel Polymorphic Phase of $\text{BaCu}_2\text{As}_2$ : Impact of Flux for New Phase Formation in Crystal Growth. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 5922-5930	3.5	2
19	X-ray photoelectron spectroscopy characterization of band offsets of $\text{MgO}/\text{Mg}_2\text{Si}$ and $\text{SiO}_2/\text{Mg}_2\text{Si}$ heterojunctions. <i>Surface and Interface Analysis</i> , <b>2021</b> , 53, 852-859	1.5	2
18	Impact of the vertical strain on the Schottky barrier height for graphene/ $\text{AlN}$ heterojunction: a study by the first-principles method. <i>European Physical Journal B</i> , <b>2021</b> , 94, 1	1.2	2
17	Effect of isotope disorder on the Raman spectra of cubic boron arsenide. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	2

16	The Degradation Mechanism of Mg <sub>2</sub> Si during Exploitation at High Temperature. <i>Physica Status Solidi (B): Basic Research</i> , <b>2021</b> , 258, 2100425	1.3	2
15	Synthesis and Structure of a Nonstoichiometric ZrPtSb Compound. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 12017-12024	5.1	1
14	Effects of Nickel Doping on the Multiferroic and Magnetic Phases of MnWO <sub>4</sub> . <i>Integrated Ferroelectrics</i> , <b>2015</b> , 166, 17-29	0.8	1
13	Exploration of n- and p-type doping for two-dimensional gallium nitride: charged defect calculation with first principles. <i>European Physical Journal B</i> , <b>2020</b> , 93, 1	1.2	1
12	The External Electric Field-Induced Tunability of the Schottky Barrier Height in Graphene/AlN Interface: A Study by First-Principles. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	1
11	Interfacial Superconductivity Achieved in Parent AEF <sub>2</sub> As (AE = Ca, Sr, Ba) by a Simple and Realistic Annealing Route. <i>Nano Letters</i> , <b>2021</b> , 21, 2191-2198	11.5	1
10	Interface-Induced and Interface-Enhanced Superconductivity. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2019</b> , 32, 7-15	1.5	1
9	Doping dependence and high-pressure studies on Eu <sub>x</sub> Ca <sub>1-x</sub> Fe <sub>2</sub> As <sub>2</sub> (0 ≤ x ≤ 1). <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 095010	3.1	0
8	Determination of the interface band alignment of Mg <sub>2</sub> Si/4H-SiC heterojunction for potential photodetector application. <i>Surface and Interface Analysis</i> , <b>2022</b> , 54, 270-276	1.5	0
7	Crystal Structure and Electronic Properties of New Compound ZrPtSe. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 8196-8202	5.1	
6	CBED Investigations of Boron Monoarsenide Crystals. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 30-31	0.5	
5	Comparison of Pr-doped Ca <sub>122</sub> and Ca <sub>112</sub> Pnictides by Low-field Microwave Absorption Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1684, 10		
4	Determination of foreign phases in FeAs based superconducting systems <b>2009</b> , 391-395		
3	Superconductivity and phase diagram in a transition metal doped Zr <sub>5</sub> Ge <sub>3</sub> compound. <i>Superconductor Science and Technology</i> , <b>2018</b> , 31, 085001	3.1	
2	New layered quaternary BaCu <sub>6</sub> Sn <sub>2</sub> As <sub>4-x</sub> and BaCu <sub>6</sub> Sn <sub>2</sub> P <sub>4-x</sub> phases: crystal growth and physical properties. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 892, 162111	5.7	
1	Tunable Schottky Barrier and Interfacial Electronic Properties in Graphene/ZnSe Heterostructures. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 744977	5	