

Xiangfeng Wang

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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.

66 papers	4,804 citations	32 h-index	67 g-index
67 ext. papers	5,085 ext. citations	5.6 avg, IF	4.74 L-index

#	Paper	IF	Citations
66	Nodeless superconducting gap in A(x)Fe ₂ Se ₂ (A=K,Cs) revealed by angle-resolved photoemission spectroscopy. <i>Nature Materials</i> , 2011 , 10, 273-7	27	382
65	Spin waves and magnetic exchange interactions in CaFe ₂ As ₂ . <i>Nature Physics</i> , 2009 , 5, 555-560	16.2	331
64	Coexistence of the spin-density wave and superconductivity in Ba _{1-x} K _x Fe ₂ As ₂ . <i>Europhysics Letters</i> , 2009 , 85, 17006	1.6	296
63	Superconductivity at 32 K in single-crystalline Rb _x Fe ₂ Se ₂ . <i>Physical Review B</i> , 2011 , 83,	3.3	272
62	Anomalous transport properties and phase diagram of the FeAs-based SmFeAsO _{1-x} F _x superconductors. <i>Physical Review Letters</i> , 2008 , 101, 087001	7.4	251
61	Scanning tunneling spectroscopy and vortex imaging in the iron pnictide superconductor BaFe _{1.8} Co _{0.2} As ₂ . <i>Physical Review Letters</i> , 2009 , 102, 097002	7.4	221
60	Anisotropy in the electrical resistivity and susceptibility of superconducting BaFe ₂ As ₂ single crystals. <i>Physical Review Letters</i> , 2009 , 102, 117005	7.4	210
59	Quantum criticality and nodal superconductivity in the FeAs-based superconductor KFe ₂ As ₂ . <i>Physical Review Letters</i> , 2010 , 104, 087005	7.4	205
58	Common crystalline and magnetic structure of superconducting A ₂ Fe ₄ Se ₅ (A=K,Rb,Cs,Tl) single crystals measured using neutron diffraction. <i>Physical Review Letters</i> , 2011 , 107, 137003	7.4	191
57	Different resistivity response to spin-density wave and superconductivity at 20 K in Ca _{1-x} NaxFe ₂ As ₂ . <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 422201	1.8	163
56	Superconductivity at 5 K in alkali-metal-doped phenanthrene. <i>Nature Communications</i> , 2011 , 2, 507	17.4	158
55	A large iron isotope effect in SmFeAsO(1 - x)F(x) and Ba(1 - x)K(x)Fe(2)As(2). <i>Nature</i> , 2009 , 459, 64-7	50.4	148
54	Electronic structure and unusual exchange splitting in the spin-density-wave state of the BaFe ₂ As ₂ parent compound of iron-based superconductors. <i>Physical Review Letters</i> , 2009 , 102, 107002	7.4	137
53	Structure of vacancy-ordered single-crystalline superconducting potassium iron selenide. <i>Physical Review B</i> , 2011 , 83,	3.3	125
52	Topological RPdBi half-Heusler semimetals: A new family of noncentrosymmetric magnetic superconductors. <i>Science Advances</i> , 2015 , 1, e1500242	14.3	111
51	Coexistence of superconductivity and antiferromagnetism in single crystals A _{0.8} Fe ₂ Se ₂ (A=K, Rb, Cs, Tl/K and Tl/Rb): Evidence from magnetization and resistivity. <i>Europhysics Letters</i> , 2011 , 94, 27008	1.6	109
50	Superconductivity at 56 K in samarium-doped SrFeAsF. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 142203	1.8	100

49	Measurements of the anisotropic in-plane resistivity of underdoped FeAs-based pnictide superconductors. <i>Physical Review Letters</i> , 2011 , 107, 067001	7.4	93
48	The peculiar physical properties and phase diagram of BaFe _{2-x} CoxAs ₂ single crystals. <i>New Journal of Physics</i> , 2009 , 11, 045003	2.9	93
47	Superconductivity and magnetic properties of single crystals of K _{0.75} Fe _{1.66} Se ₂ and Cs _{0.81} Fe _{1.61} Se ₂ . <i>Physical Review B</i> , 2011 , 83,	3.3	92
46	Transport properties and superconductivity in Ba _{1-x} M _x Fe ₂ As ₂ (M=La and K) with double FeAs layers. <i>Europhysics Letters</i> , 2008 , 84, 27010	1.6	73
45	Evidence for an s-wave superconducting gap in KxFe _{2-y} Se ₂ from angle-resolved photoemission. <i>Physical Review B</i> , 2012 , 85,	3.3	68
44	One-dimensional edge state transport in a topological Kondo insulator. <i>Nature Physics</i> , 2016 , 12, 213-217	6.2	63
43	High pressure study of BaFe ₂ As ₂ --the role of hydrostaticity and uniaxial stress. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 052201	1.8	62
42	Superconductivity in A _{1.5} phenanthrene (A=Sr,Ba). <i>Physical Review B</i> , 2011 , 84,	3.3	53
41	Physical properties of the layered pnictide oxides Na ₂ Ti ₂ P ₂ O (P=As,Sb). <i>Physical Review B</i> , 2009 , 80,	3.3	51
40	Structure and physical properties for a new layered pnictide-oxide: BaTi ₂ As ₂ O. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 075702	1.8	45
39	Crystal structure, physical properties and superconductivity in AxFe ₂ Se ₂ single crystals. <i>New Journal of Physics</i> , 2011 , 13, 053011	2.9	39
38	Thermodynamic properties of Ba _{1-x} KxFe ₂ As ₂ and Ca _{1-x} NaxFe ₂ As ₂ . <i>New Journal of Physics</i> , 2008 , 10, 123031	2.9	36
37	Surface and bulk electronic structures of LaFeAsO studied by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2010 , 82,	3.3	35
36	Specific heat in KFe ₂ As ₂ in zero and applied magnetic field. <i>Physical Review B</i> , 2011 , 83,	3.3	33
35	High-temperature superconductivity stabilized by electron-hole interband coupling in collapsed tetragonal phase of KFe ₂ As ₂ under high pressure. <i>Physical Review B</i> , 2015 , 91,	3.3	32
34	Electron spin resonance in EuFe _{2-x} CoxAs ₂ single crystals. <i>Physical Review B</i> , 2010 , 81,	3.3	32
33	2D structure and charge inhomogeneity at the surface of superconducting BaFe _{2-x} CoxAs ₂ (x=0-0.32). <i>Physical Review B</i> , 2010 , 81,	3.3	32
32	Transport properties and electronic phase diagram of single-crystalline Ca ₁₀ (Pt ₃ As ₈)((Fe _{1-x} Ptx) ₂ As ₂) ₅ . <i>Physical Review B</i> , 2012 , 85,	3.3	31

- 31 Enhanced superconductivity by rare-earth metal doping in phenanthrene. *Journal of Physics Condensed Matter*, **2012**, 24, 345701 1.8 31
- 30 K₂NiF₄ type La₂□_xSr_xCo_{0.8}Ni_{0.2}O₄ + □ as the cathodes for solid oxide fuel cells. *Solid State Ionics*, **2008**, 179, 1450-1453 3.3 31
- 29 Fluctuation conductivity of single-crystalline BaFe_{1.8}Co_{0.2}As₂ in the critical region. *Journal of Applied Physics*, **2010**, 108, 063916 2.5 28
- 28 Pressure effect on superconductivity of A_xFe₂Se₂ (A= K and Cs). *New Journal of Physics*, **2011**, 13, 033008 2.9 28
- 27 Quasiparticle interference of C₂-symmetric surface states in a LaOFeAs parent compound. *Physical Review Letters*, **2011**, 106, 087001 7.4 28
- 26 Strong coupling of Sm and Fe magnetism in SmFeAsO as revealed by magnetic x-ray scattering. *Physical Review B*, **2011**, 84, 3.3 27
- 25 Pressure-induced unconventional superconductivity near a quantum critical point in CaFe₂As₂. *Superconductor Science and Technology*, **2010**, 23, 054004 3.1 26
- 24 Superconductivity induced by oxygen deficiency in La_{0.85}Sr_{0.15}FeAsO_{1-□} *Physical Review B*, **2008**, 78, 3.3 24
- 23 Structure and physical properties of the new layered oxypnictides Sr₄Sc₂O₆M₂As₂ (M=Fe and Co). *Europhysics Letters*, **2009**, 86, 57007 1.6 23
- 22 Imaging emergent heavy Dirac fermions of a topological Kondo insulator. *Nature Physics*, **2020**, 16, 52-56 6.2 18
- 21 Evidence for competing magnetic and superconducting phases in superconducting Eu_{1-x}Sr_xFe_{2-y}Co_yAs₂ single crystals. *Journal of Physics Condensed Matter*, **2010**, 22, 235701 1.8 16
- 20 Thermoelectric properties of electron- and hole-doped BaFe₂As₂. *Physical Review B*, **2010**, 81, 3.3 15
- 19 Magnetic phase diagram of Eu_{1-x}La_xFe₂As₂ single crystals. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 3870-3874 2.8 15
- 18 Evidence for local moments by electron spin resonance study of polycrystalline LaFeAsO_{1-□}F_x (x=0 and 0.13). *Physical Review B*, **2009**, 79, 3.3 14
- 17 Transport and magnetic properties of La-doped CaFe₂As₂. *Physical Review B*, **2012**, 85, 3.3 14
- 16 Isotropic superconductivity in LaRu₂P₂ with the ThCr₂Si₂-type structure. *Superconductor Science and Technology*, **2010**, 23, 115009 3.1 13
- 15 Phase diagram as a function of doping level and pressure in the Eu_{1-□}La_xFe₂As₂ system. *Physical Review B*, **2012**, 85, 3.3 11
- 14 Observation of the Superconducting Proximity Effect in the Surface State of SmB₆ Thin Films. *Physical Review X*, **2016**, 6, 9.1 10

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| 13 | s-wave superconductivity in barium-doped phenanthrene as revealed by specific-heat measurements. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 8 |
| 12 | Electrical detection of the surface spin polarization of the candidate topological Kondo insulator SmB6. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 7 |
| 11 | Spin-density-wave transition of Fe1 zigzag chains and metamagnetic transition of Fe2 in TaFe1+yTe3. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 7 |
| 10 | Freezing out of a low-energy bulk spin exciton in SmB6. <i>Npj Quantum Materials</i> , 2018 , 3, | 5 | 7 |
| 9 | The fluctuation effect of BaFe1.8Co0.2As2 single crystals from reversible magnetization. <i>Superconductor Science and Technology</i> , 2009 , 22, 105016 | 3.1 | 6 |
| 8 | Electronic structure of SmOFeAs. <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 460-464 | 3.9 | 6 |
| 7 | Two S-wave gap symmetry for single crystals of the superconductor BaFe1.8Co0.2As2. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S506-S507 | 1.3 | 5 |
| 6 | As-NMR/NQR study of pressure-induced superconductivity in CaFe2As2. <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 501-504 | 3.9 | 3 |
| 5 | Giant magnetic flux jumps in single crystals of Ba0.6K0.4Fe2As2. <i>Applied Physics Letters</i> , 2011 , 98, 182505 | 3.4 | 3 |
| 4 | Electrical detection of the inverse Edelstein effect on the surface of SmB6. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 3 |
| 3 | Observation of two collapsed phases in CaRbFe4As4. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 2 |
| 2 | Magnetotransport properties in K(0.50)CoO(2) single crystals. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 016004 | 1.8 | 1 |
| 1 | Superconductivity in Ba1-xSm x FFeAs and Eu1-xSm x FFeAs systems. <i>Science Bulletin</i> , 2009 , 54, 1872-1875 | 5.6 | 1 |