

# Xiangfeng Wang

## 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.

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	Imaging emergent heavy Dirac fermions of a topological Kondo insulator. <i>Nature Physics</i> , <b>2020</b> , 16, 52-56,	6.2	18
65	Electrical detection of the inverse Edelstein effect on the surface of SmB <sub>6</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
64	Observation of two collapsed phases in CaRbFe <sub>4</sub> As <sub>4</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	2
63	Electrical detection of the surface spin polarization of the candidate topological Kondo insulator SmB <sub>6</sub> . <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	7
62	Freezing out of a low-energy bulk spin exciton in SmB <sub>6</sub> . <i>Npj Quantum Materials</i> , <b>2018</b> , 3,	5	7
61	Observation of the Superconducting Proximity Effect in the Surface State of SmB <sub>6</sub> Thin Films. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	10
60	One-dimensional edge state transport in a topological Kondo insulator. <i>Nature Physics</i> , <b>2016</b> , 12, 213-217,	6.2	63
59	Topological RPdBi half-Heusler semimetals: A new family of noncentrosymmetric magnetic superconductors. <i>Science Advances</i> , <b>2015</b> , 1, e1500242	14.3	111
58	High-temperature superconductivity stabilized by electron-hole interband coupling in collapsed tetragonal phase of KFe <sub>2</sub> As <sub>2</sub> under high pressure. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	32
57	Evidence for an s-wave superconducting gap in KxFe <sub>2-y</sub> Se <sub>2</sub> from angle-resolved photoemission. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	68
56	Transport properties and electronic phase diagram of single-crystalline Ca <sub>10</sub> (Pt <sub>3</sub> As <sub>8</sub> )(Fe <sub>1-x</sub> Ptx) <sub>2</sub> As <sub>2</sub> ) <sub>5</sub> . <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	31
55	Phase diagram as a function of doping level and pressure in the Eu <sub>1-x</sub> LaxFe <sub>2</sub> As <sub>2</sub> system. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	11
54	Transport and magnetic properties of La-doped CaFe <sub>2</sub> As <sub>2</sub> . <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	14
53	s-wave superconductivity in barium-doped phenanthrene as revealed by specific-heat measurements. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	8
52	Enhanced superconductivity by rare-earth metal doping in phenanthrene. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 345701	1.8	31
51	Structure of vacancy-ordered single-crystalline superconducting potassium iron selenide. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	125
50	Spin-density-wave transition of Fe <sub>1</sub> zigzag chains and metamagnetic transition of Fe <sub>2</sub> in TaFe <sub>1+y</sub> Te <sub>3</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	7

49	Strong coupling of Sm and Fe magnetism in SmFeAsO as revealed by magnetic x-ray scattering. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	27
48	Superconductivity at 32 K in single-crystalline RbxFe2PSe2. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	272
47	Common crystalline and magnetic structure of superconducting A2Fe4Se5 (A=K,Rb,Cs,Tl) single crystals measured using neutron diffraction. <i>Physical Review Letters</i> , <b>2011</b> , 107, 137003	7.4	191
46	Nodeless superconducting gap in A(x)Fe2Se2 (A=K,Cs) revealed by angle-resolved photoemission spectroscopy. <i>Nature Materials</i> , <b>2011</b> , 10, 273-7	27	382
45	Superconductivity at 5 K in alkali-metal-doped phenanthrene. <i>Nature Communications</i> , <b>2011</b> , 2, 507	17.4	158
44	As-NMR/NQR study of pressure-induced superconductivity in CaFe2As2. <i>Journal of Physics and Chemistry of Solids</i> , <b>2011</b> , 72, 501-504	3.9	3
43	Electronic structure of SmOFeAs. <i>Journal of Physics and Chemistry of Solids</i> , <b>2011</b> , 72, 460-464	3.9	6
42	Coexistence of superconductivity and antiferromagnetism in single crystals A <sub>0.8</sub> Fe <sub>2</sub> Se <sub>2</sub> (A=K, Rb, Cs, Tl/K and Tl/Rb): Evidence from magnetization and resistivity. <i>Europhysics Letters</i> , <b>2011</b> , 94, 27008 <sup>1.6</sup>	109	
41	Pressure effect on superconductivity of A <sub>x</sub> Fe <sub>2</sub> Se <sub>2</sub> (A= K and Cs). <i>New Journal of Physics</i> , <b>2011</b> , 13, 033008 <sup>2.9</sup>	28	
40	Superconductivity and magnetic properties of single crystals of K <sub>0.75</sub> Fe <sub>1.66</sub> Se <sub>2</sub> and Cs <sub>0.81</sub> Fe <sub>1.61</sub> Se <sub>2</sub> . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	92
39	Quasiparticle interference of C <sub>2</sub> -symmetric surface states in a LaOFeAs parent compound. <i>Physical Review Letters</i> , <b>2011</b> , 106, 087001	7.4	28
38	Measurements of the anisotropic in-plane resistivity of underdoped FeAs-based pnictide superconductors. <i>Physical Review Letters</i> , <b>2011</b> , 107, 067001	7.4	93
37	Specific heat in KFe2As2 in zero and applied magnetic field. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	33
36	Superconductivity in A <sub>1.5</sub> phenanthrene (A=Sr,Ba). <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	53
35	Giant magnetic flux jumps in single crystals of Ba <sub>0.6</sub> K <sub>0.4</sub> Fe2As2. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 182505 <sup>5.4</sup>	3	
34	Crystal structure, physical properties and superconductivity in A <sub>x</sub> Fe <sub>2</sub> Se <sub>2</sub> single crystals. <i>New Journal of Physics</i> , <b>2011</b> , 13, 053011	2.9	39
33	Pressure-induced unconventional superconductivity near a quantum critical point in CaFe2As2. <i>Superconductor Science and Technology</i> , <b>2010</b> , 23, 054004	3.1	26
32	Isotropic superconductivity in LaRu2P2 with the ThCr2Si2-type structure. <i>Superconductor Science and Technology</i> , <b>2010</b> , 23, 115009	3.1	13

31	Electron spin resonance in $\text{EuFe}_2\text{CoAs}_2$ single crystals. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	32
30	$2 \times 2$ structure and charge inhomogeneity at the surface of superconducting $\text{BaFe}_2\text{CoAs}_2$ ( $x=0.32$ ). <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	32
29	Thermoelectric properties of electron- and hole-doped $\text{BaFe}_2\text{As}_2$ . <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	15
28	Structure and physical properties for a new layered pnictide-oxide: $\text{BaTiAsO}$ . <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 075702	1.8	45
27	Evidence for competing magnetic and superconducting phases in superconducting $\text{Eu}_{1-x}\text{Sr}_x\text{Fe}_{2-y}\text{Co}_y\text{As}_2$ single crystals. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 235701	1.8	16
26	Surface and bulk electronic structures of $\text{LaFeAsO}$ studied by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	35
25	Quantum criticality and nodal superconductivity in the FeAs-based superconductor $\text{KFe}_2\text{As}_2$ . <i>Physical Review Letters</i> , <b>2010</b> , 104, 087005	7.4	205
24	Fluctuation conductivity of single-crystalline $\text{BaFe}_{1.8}\text{Co}_{0.2}\text{As}_2$ in the critical region. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 063916	2.5	28
23	High pressure study of $\text{BaFe}_2\text{As}_2$ --the role of hydrostaticity and uniaxial stress. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 052201	1.8	62
22	Two S-wave gap symmetry for single crystals of the superconductor $\text{BaFe}_{1.8}\text{Co}_{0.2}\text{As}_2$ . <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, S506-S507	1.3	5
21	Evidence for local moments by electron spin resonance study of polycrystalline $\text{LaFeAsO}_{1-x}\text{F}_x$ ( $x=0$ and 0.13). <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	14
20	Physical properties of the layered pnictide oxides $\text{Na}_2\text{Ti}_2\text{P}_2\text{O}$ ( $\text{P}=\text{As}, \text{Sb}$ ). <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	51
19	Magnetotransport properties in $\text{K}_{0.50}\text{CoO}_2$ single crystals. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 016004	1.8	1
18	The fluctuation effect of $\text{BaFe}_{1.8}\text{Co}_{0.2}\text{As}_2$ single crystals from reversible magnetization. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 105016	3.1	6
17	Superconductivity in $\text{Ba}_{1-x}\text{Sm}_x\text{FeAs}$ and $\text{Eu}_{1-x}\text{Sm}_x\text{FeAs}$ systems. <i>Science Bulletin</i> , <b>2009</b> , 54, 1872-1875.	5.6	1
16	A large iron isotope effect in $\text{SmFeAsO}_{(1-x)\text{F}(x)}$ and $\text{Ba}_{(1-x)}\text{K}(x)\text{Fe}_2\text{As}_2$ . <i>Nature</i> , <b>2009</b> , 459, 64-7	50.4	148
15	Spin waves and magnetic exchange interactions in $\text{CaFe}_2\text{As}_2$ . <i>Nature Physics</i> , <b>2009</b> , 5, 555-560	16.2	331
14	Magnetic phase diagram of $\text{Eu}_{1-x}\text{La}_x\text{Fe}_2\text{As}_2$ single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 3870-3874	2.8	15

13	Electronic structure and unusual exchange splitting in the spin-density-wave state of the BaFe <sub>2</sub> As <sub>2</sub> parent compound of iron-based superconductors. <i>Physical Review Letters</i> , <b>2009</b> , 102, 107002	7.4	137
12	Coexistence of the spin-density wave and superconductivity in Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> . <i>Europhysics Letters</i> , <b>2009</b> , 85, 17006	1.6	296
11	Superconductivity at 56 K in samarium-doped SrFeAsF. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 142203	1.8	100
10	Scanning tunneling spectroscopy and vortex imaging in the iron pnictide superconductor BaFe <sub>1.8</sub> Co <sub>0.2</sub> As <sub>2</sub> . <i>Physical Review Letters</i> , <b>2009</b> , 102, 097002	7.4	221
9	Anisotropy in the electrical resistivity and susceptibility of superconducting BaFe <sub>2</sub> As <sub>2</sub> single crystals. <i>Physical Review Letters</i> , <b>2009</b> , 102, 117005	7.4	210
8	The peculiar physical properties and phase diagram of BaFe <sub>2-x</sub> CoxAs <sub>2</sub> single crystals. <i>New Journal of Physics</i> , <b>2009</b> , 11, 045003	2.9	93
7	Structure and physical properties of the new layered oxypnictides Sr <sub>4</sub> Sc <sub>2</sub> O <sub>6</sub> M <sub>2</sub> As <sub>2</sub> (M=Fe and Co). <i>Europhysics Letters</i> , <b>2009</b> , 86, 57007	1.6	23
6	Anomalous transport properties and phase diagram of the FeAs-based SmFeAsO <sub>1-x</sub> F <sub>x</sub> superconductors. <i>Physical Review Letters</i> , <b>2008</b> , 101, 087001	7.4	251
5	Thermodynamic properties of Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> and Ca <sub>1-x</sub> NaxFe <sub>2</sub> As <sub>2</sub> . <i>New Journal of Physics</i> , <b>2008</b> , 10, 123031	2.9	36
4	Transport properties and superconductivity in Ba <sub>1-x</sub> M <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> (M=La and K) with double FeAs layers. <i>Europhysics Letters</i> , <b>2008</b> , 84, 27010	1.6	73
3	Superconductivity induced by oxygen deficiency in La <sub>0.85</sub> Sr <sub>0.15</sub> FeAsO <sub>1-δ</sub> . <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	24
2	Different resistivity response to spin-density wave and superconductivity at 20 K in Ca <sub>1-x</sub> NaxFe <sub>2</sub> As <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 422201	1.8	163
1	K <sub>2</sub> NiF <sub>4</sub> type La <sub>2-x</sub> SrxCo <sub>0.8</sub> Ni <sub>0.2</sub> O <sub>4</sub> + δ as the cathodes for solid oxide fuel cells. <i>Solid State Ionics</i> , <b>2008</b> , 179, 1450-1453	3.3	31