

# Ronghua Liu

## List of Publications by Citations

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84  
papers

5,699  
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33  
h-index

75  
g-index

94  
ext. papers

6,078  
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
84	Superconductivity at 43 K in SmFeAsO <sub>1-x</sub> F <sub>x</sub> . <i>Nature</i> , <b>2008</b> , 453, 761-2	50.4	1506
83	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
82	A BCS-like gap in the superconductor SmFeAsO <sub>0.85</sub> F <sub>0.15</sub> . <i>Nature</i> , <b>2008</b> , 453, 1224-7	50.4	276
81	Superconductivity at 32 K in single-crystalline Rb <sub>x</sub> Fe <sub>2</sub> Se <sub>2</sub> . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	272
80	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
79	Coexistence of static magnetism and superconductivity in SmFeAsO(1-x)F(x) as revealed by muon spin rotation. <i>Nature Materials</i> , <b>2009</b> , 8, 310-4	27	245
78	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
77	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
76	Superconductivity at 5 K in alkali-metal-doped phenanthrene. <i>Nature Communications</i> , <b>2011</b> , 2, 507	17.4	158
75	Spectral characteristics of the microwave emission by the spin Hall nano-oscillator. <i>Physical Review Letters</i> , <b>2013</b> , 110, 147601	7.4	149
74	A large iron isotope effect in SmFeAsO(1 - x)F(x) and Ba(1 - x)K(x)Fe(2)As(2). <i>Nature</i> , <b>2009</b> , 459, 64-7	50.4	148
73	Upper critical fields well above 100 T for the superconductor SmFeAsO <sub>0.85</sub> F <sub>0.15</sub> with T <sub>c</sub> =46 K. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	116
72	Coexistence of magnetic fluctuations and superconductivity in the pnictide high temperature superconductor SmFeAsO <sub>1-x</sub> F <sub>x</sub> measured by muon spin rotation. <i>Physical Review Letters</i> , <b>2008</b> , 101, 097010	7.4	111
71	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>	1.6	109
70	Crystal structure and phase transitions across the metal-superconductor boundary in the SmFeAsO <sub>1-x</sub> F <sub>x</sub> (0 ≤ x ≤ 0.20) family. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	107
69	Superconductivity at 56 K in samarium-doped SrFeAsF. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 142203	1.8	100
68	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

67	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
66	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
65	Specific heat of the iron-based high-T <sub>c</sub> superconductor SmO <sub>1-x</sub> F <sub>x</sub> FeAs. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	80
64	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
63	Effect of pressure on the superconducting and spin-density-wave states of SmFeAsO <sub>1-x</sub> F <sub>x</sub> . <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	72
62	Dynamical skyrmion state in a spin current nano-oscillator with perpendicular magnetic anisotropy. <i>Physical Review Letters</i> , <b>2015</b> , 114, 137201	7.4	71
61	Excitation of coherent propagating spin waves by pure spin currents. <i>Nature Communications</i> , <b>2016</b> , 7, 10446	17.4	66
60	Superconductivity in A <sub>1.5</sub> phenanthrene (A=Sr,Ba). <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	53
59	Physical properties of the layered pnictide oxides Na <sub>2</sub> Ti <sub>2</sub> P <sub>2</sub> O (P=As,Sb). <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	51
58	Superconducting energy gap and c-axis plasma frequency of (Nd,Sm)FeAsO <sub>0.82</sub> F <sub>0.18</sub> superconductors from infrared ellipsometry. <i>Physical Review Letters</i> , <b>2008</b> , 101, 097011	7.4	50
57	Structure and Physical Properties of the Layered Pnictide-Oxides: (SrF) <sub>2</sub> Ti <sub>2</sub> P <sub>n</sub> O (P <sub>n</sub> = As, Sb) and (SmO) <sub>2</sub> Ti <sub>2</sub> Sb <sub>2</sub> O. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 1503-1508	9.6	46
56	Control of current-induced spin-orbit effects in a ferromagnetic heterostructure by electric field. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	44
55	Pseudogap and Superconducting Gap in Sm FeAs(O <sub>1-x</sub> F <sub>x</sub> ) Superconductor from Photoemission Spectroscopy. <i>Chinese Physics Letters</i> , <b>2008</b> , 25, 3761-3764	1.8	41
54	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
53	Doping dependence of the pressure response of T <sub>c</sub> in the SmO(1-x)F(x)FeAs superconductors. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 9242-3	16.4	38
52	Heat capacity measurements on FeAs-based compounds: a thermodynamic probe of electronic and magnetic states. <i>New Journal of Physics</i> , <b>2009</b> , 11, 025010	2.9	33
51	Electron spin resonance in EuFe <sub>2-x</sub> CoxAs <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	32
50	Physical reservoir computing using magnetic skyrmion memristor and spin torque nano-oscillator. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 192403	3.4	29

- 49 Pressure effect on superconductivity of  $AxFe_2Se_2$  ( $A=K$  and  $Cs$ ). *New Journal of Physics*, **2011**, 13, 033008.9 28
- 48 High-field phase-diagram of Fe arsenide superconductors. *Physica C: Superconductivity and Its Applications*, **2009**, 469, 566-574 1.3 26
- 47 Superconductivity induced by oxygen deficiency in  $La_{0.85}Sr_{0.15}FeAsO_{1-x}$ . *Physical Review B*, **2008**, 78, 104511 3.3 24
- 46 Structure and physical properties of the new layered oxypnictides  $Sr_4Sc_2O_6M_2As_2$  ( $M=Fe$  and  $Co$ ). *Europhysics Letters*, **2009**, 86, 57007 1.6 23
- 45 Determination of superconducting gap of  $SmFeAsFxO_{1-x}$  superconductors by Andreev reflection spectroscopy. *Physica C: Superconductivity and Its Applications*, **2009**, 469, 521-528 1.3 20
- 44 Doping-insensitive density-of-states suppression in polycrystalline iron-based superconductor. *Solid State Communications*, **2008**, 148, 504-507 1.6 17
- 43 Evidence for competing magnetic and superconducting phases in superconducting  $Eu_{1-x}Sr_xFe_{2-y}Co_yAs_2$  single crystals. *Journal of Physics Condensed Matter*, **2010**, 22, 235701 1.8 16
- 42 Structural and magnetic properties of the layered manganese oxichalcogenides  $(LaO)_2Mn_2Se_2O$  and  $(BaF)_2Mn_2Se_2O$ . *Physical Review B*, **2011**, 83, 104511 3.3 15
- 41 Thermoelectric properties of electron- and hole-doped  $BaFe_2As_2$ . *Physical Review B*, **2010**, 81, 104511 3.3 15
- 40 Magnetic-field-induced log-T insulating behavior in the resistivity of fluorine-doped  $SmFeAsO_{1-x}Fx$ . *Physical Review B*, **2009**, 79, 104511 3.3 15
- 39 Magnetic phase diagram of  $Eu_{1-x}La_xFe_2As_2$  single crystals. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 3870-3874 2.8 15
- 38 Evidence for local moments by electron spin resonance study of polycrystalline  $LaFeAsO_{1-x}Fx$  ( $x=0$  and  $0.13$ ). *Physical Review B*, **2009**, 79, 104511 3.3 14
- 37 Isotropic superconductivity in  $LaRu_2P_2$  with the  $ThCr_2Si_2$ -type structure. *Superconductor Science and Technology*, **2010**, 23, 115009 3.1 13
- 36 Common Features in Electronic Structure of the Oxypnictide Superconductors from Photoemission Spectroscopy. *Chinese Physics Letters*, **2008**, 25, 3765-3768 1.8 13
- 35 Interfacial Dzyaloshinskii-Moriya interaction between ferromagnetic insulator and heavy metal. *Applied Physics Letters*, **2020**, 116, 052404 3.4 13
- 34 Intrinsic electron doping in nominal  $\delta$ -doped  $\delta$ -superconducting  $(La,Y)_2CuO_4$  thin films grown by magnetron sputtering. *Applied Physics Letters*, **2007**, 90, 072503 3.4 10
- 33 Controlling the Spectral Characteristics of a Spin-Current Auto-Oscillator with an Electric Field. *Physical Review Applied*, **2017**, 8, 044002 4.3 8
- 32 Dynamical mode coexistence and chaos in a nanogap spin Hall nano-oscillator. *Physical Review B*, **2019**, 100, 104402 3.3 7

31	Spin-density-wave transition of Fe1 zigzag chains and metamagnetic transition of Fe2 in TaFe <sub>1+y</sub> Te <sub>3</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	7
30	Enhanced spin accumulation in metallic bilayers with opposite spin Hall angles. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	6
29	Doping dependent nonlinear Hall effect in SmFeAsO(1-x)F(x). <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 412201	1.8	6
28	Recent progress on excitation and manipulation of spin-waves in spin Hall nano-oscillators. <i>Chinese Physics B</i> , <b>2020</b> , 29, 117102	1.2	6
27	Strong interface-induced spin-charge conversion in YIG/Cr heterostructures. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 112402	3.4	6
26	Maximizing spin-orbit torque efficiency of Ta(O)/Py via modulating oxygen-induced interface orbital hybridization. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 032405	3.4	6
25	Dynamical Mode Coupling and Coherence in a Spin Hall Nano-Oscillator with Perpendicular Magnetic Anisotropy. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	5
24	Fast chirality reversal of the magnetic vortex by electric current. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 222405	3.4	5
23	Quantum critical point in SmO(1-x)F(x)FeAs and oxygen vacancy induced by high fluorine dopant. <i>Journal of Synchrotron Radiation</i> , <b>2011</b> , 18, 723-7	2.4	5
22	Magnetic Droplet Mode in a Vertical Nanocontact-Based Spin Hall Nano-Oscillator at Oblique Fields. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	4
21	Transport properties and the large anisotropic magnetoresistance of Cu(x)NbS(2) single crystals. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 275601	1.8	4
20	Mode Structures and Damping of Quantized Spin Waves in Ferromagnetic Nanowires. <i>Chinese Physics Letters</i> , <b>2020</b> , 37, 087503	1.8	4
19	The origin of superconductivity in nominally $\delta$ -doped $\text{La}_{2-x}\text{Y}_x\text{CuO}_4$ films. <i>Superconductor Science and Technology</i> , <b>2008</b> , 21, 065005	3.1	3
18	Electronic Structure Reconstruction across the Antiferromagnetic Transition in TaFe <sub>1.23</sub> Te <sub>3</sub> Spin Ladder. <i>Chinese Physics Letters</i> , <b>2015</b> , 32, 027401	1.8	2
17	Evidence for negative thermal expansion in the superconducting precursor phase SmFeAsO. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 095601	1.8	2
16	Observation of topological Hall effect in antiferromagnetic FeRh film. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 022404	3.4	2
15	Spin orientation in spin frustrated system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 1579-1582	3	2
14	Metastable T <sub>2</sub> -phase in bulk La <sub>2-x</sub> Ln <sub>x</sub> CuO <sub>4</sub> (Ln=Sm and Y). <i>Physica C: Superconductivity and Its Applications</i> , <b>2008</b> , 468, 2197-2200	1.3	2

13	Field- and Current-Driven Magnetization Reversal and Dynamic Properties of CoFeB-MgO-Based Perpendicular Magnetic Tunnel Junctions. <i>Chinese Physics Letters</i> , <b>2020</b> , 37, 117501	1.8	2
12	Experiments and SPICE simulations of double MgO-based perpendicular magnetic tunnel junction*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 047504	1.2	2
11	Controllable excitation of multiple spin wave bullet modes in a spin Hall nano-oscillator based on [Ni/Co]/Pt multilayers. <i>Nanoscale</i> , <b>2021</b> , 13, 7838-7843	7.7	2
10	Magnetotransport properties in K(0.50)CoO(2) single crystals. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 016004	1.8	1
9	Superconductivity in Ba <sub>1-x</sub> Sm <sub>x</sub> FFeAs and Eu <sub>1-x</sub> Sm <sub>x</sub> FFeAs systems. <i>Science Bulletin</i> , <b>2009</b> , 54, 1872-1875	5.6	1
8	Controlled vapor growth of 2D magnetic Cr <sub>2</sub> Se <sub>3</sub> and its magnetic proximity effect in heterostructures*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 097601	1.2	1
7	Electrical generation and detection of spin waves in polycrystalline YIG/Pt grown on silicon wafers. <i>Materials Research Express</i> , <b>2020</b> , 7, 046105	1.7	0
6	Identification of spin-dependent thermoelectric effects in metamagnetic FeRh/heavy-metal bilayers. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 142401	3.4	0
5	Spin-Wave Dynamics in an Artificial Kagome Spin Ice. <i>Chinese Physics Letters</i> , <b>2021</b> , 38, 047501	1.8	0
4	Magnetic dynamics of two-dimensional itinerant ferromagnet Fe <sub>3</sub> GeTe <sub>2</sub> *. <i>Chinese Physics B</i> , <b>2021</b> , 30, 097501	1.2	0
3	Positron annihilation study in SmFeAsO and SmFeAsO <sub>0.82</sub> F <sub>0.18</sub> . <i>Applied Physics Letters</i> , <b>2010</b> , 96, 052503	3.4	0
2	Nominally Undoped Superconducting T <sub>g</sub> -La <sub>1.8</sub> Sm <sub>0.2</sub> CuO <sub>4</sub> films. <i>Superconductor Science and Technology</i> , <b>2008</b> , 21, 032003	3.1	0
1	Superconductivity at 43 K in SmFeAsO <sub>1-x</sub> F <sub>x</sub> . <i>Peking University-World Scientific Advanced Physics Series</i> , <b>2018</b> , 217-221	0	0