

Ronghua Liu

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.

84
papers

5,699
citations

33
h-index

75
g-index

94
ext. papers

6,078
ext. citations

5.5
avg, IF

5.19
L-index

#	Paper	IF	Citations
84	Experiments and SPICE simulations of double MgO-based perpendicular magnetic tunnel junction*. <i>Chinese Physics B</i> , 2021 , 30, 047504	1.2	2
83	Identification of spin-dependent thermoelectric effects in metamagnetic FeRh/heavy-metal bilayers. <i>Applied Physics Letters</i> , 2021 , 118, 142401	3.4	0
82	Spin-Wave Dynamics in an Artificial Kagome Spin Ice. <i>Chinese Physics Letters</i> , 2021 , 38, 047501	1.8	0
81	Maximizing spin-orbit torque efficiency of Ta(O)/Py via modulating oxygen-induced interface orbital hybridization. <i>Applied Physics Letters</i> , 2021 , 118, 032405	3.4	6
80	Magnetic dynamics of two-dimensional itinerant ferromagnet Fe ₃ GeTe ₂ *. <i>Chinese Physics B</i> , 2021 , 30, 097501	1.2	0
79	Controlled vapor growth of 2D magnetic Cr ₂ Se ₃ and its magnetic proximity effect in heterostructures*. <i>Chinese Physics B</i> , 2021 , 30, 097601	1.2	1
78	Controllable excitation of multiple spin wave bullet modes in a spin Hall nano-oscillator based on [Ni/Co]/Pt multilayers. <i>Nanoscale</i> , 2021 , 13, 7838-7843	7.7	2
77	Electrical generation and detection of spin waves in polycrystalline YIG/Pt grown on silicon wafers. <i>Materials Research Express</i> , 2020 , 7, 046105	1.7	0
76	Magnetic Droplet Mode in a Vertical Nanocontact-Based Spin Hall Nano-Oscillator at Oblique Fields. <i>Physical Review Applied</i> , 2020 , 13,	4.3	4
75	Interfacial Dzyaloshinskii-Moriya interaction between ferromagnetic insulator and heavy metal. <i>Applied Physics Letters</i> , 2020 , 116, 052404	3.4	13
74	Field- and Current-Driven Magnetization Reversal and Dynamic Properties of CoFeB-MgO-Based Perpendicular Magnetic Tunnel Junctions. <i>Chinese Physics Letters</i> , 2020 , 37, 117501	1.8	2
73	Recent progress on excitation and manipulation of spin-waves in spin Hall nano-oscillators. <i>Chinese Physics B</i> , 2020 , 29, 117102	1.2	6
72	Mode Structures and Damping of Quantized Spin Waves in Ferromagnetic Nanowires. <i>Chinese Physics Letters</i> , 2020 , 37, 087503	1.8	4
71	Strong interface-induced spin-charge conversion in YIG/Cr heterostructures. <i>Applied Physics Letters</i> , 2020 , 117, 112402	3.4	6
70	Dynamical mode coexistence and chaos in a nanogap spin Hall nano-oscillator. <i>Physical Review B</i> , 2019 , 100,	3.3	7
69	Enhanced spin accumulation in metallic bilayers with opposite spin Hall angles. <i>Physical Review B</i> , 2019 , 99,	3.3	6
68	Observation of topological Hall effect in antiferromagnetic FeRh film. <i>Applied Physics Letters</i> , 2019 , 115, 022404	3.4	2

67	Dynamical Mode Coupling and Coherence in a Spin Hall Nano-Oscillator with Perpendicular Magnetic Anisotropy. <i>Physical Review Applied</i> , 2019 , 11,	4.3	5
66	Physical reservoir computing using magnetic skyrmion memristor and spin torque nano-oscillator. <i>Applied Physics Letters</i> , 2019 , 115, 192403	3.4	29
65	Evidence for negative thermal expansion in the superconducting precursor phase SmFeAsO. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 095601	1.8	2
64	Superconductivity at 43 K in SmFeAsO _{1-x} F _x . <i>Peking University-World Scientific Advanced Physics Series</i> , 2018 , 217-221	0	
63	Controlling the Spectral Characteristics of a Spin-Current Auto-Oscillator with an Electric Field. <i>Physical Review Applied</i> , 2017 , 8,	4.3	8
62	Excitation of coherent propagating spin waves by pure spin currents. <i>Nature Communications</i> , 2016 , 7, 10446	17.4	66
61	Electronic Structure Reconstruction across the Antiferromagnetic Transition in TaFe _{1.23} Te ₃ Spin Ladder. <i>Chinese Physics Letters</i> , 2015 , 32, 027401	1.8	2
60	Dynamical skyrmion state in a spin current nano-oscillator with perpendicular magnetic anisotropy. <i>Physical Review Letters</i> , 2015 , 114, 137201	7.4	71
59	Control of current-induced spin-orbit effects in a ferromagnetic heterostructure by electric field. <i>Physical Review B</i> , 2014 , 89,	3.3	44
58	Fast chirality reversal of the magnetic vortex by electric current. <i>Applied Physics Letters</i> , 2014 , 105, 222405	4.5	5
57	Spectral characteristics of the microwave emission by the spin Hall nano-oscillator. <i>Physical Review Letters</i> , 2013 , 110, 147601	7.4	149
56	Spin-density-wave transition of Fe1 zigzag chains and metamagnetic transition of Fe2 in TaFe _{1+y} Te ₃ . <i>Physical Review B</i> , 2011 , 84,	3.3	7
55	Superconductivity at 32 K in single-crystalline RbxFe ₂ Se ₂ . <i>Physical Review B</i> , 2011 , 83,	3.3	272
54	Structural and magnetic properties of the layered manganese oxychalcogenides (LaO) ₂ Mn ₂ Se ₂ O and (BaF) ₂ Mn ₂ Se ₂ O. <i>Physical Review B</i> , 2011 , 83,	3.3	15
53	Quantum critical point in SmO(1-x)F(x)FeAs and oxygen vacancy induced by high fluorine dopant. <i>Journal of Synchrotron Radiation</i> , 2011 , 18, 723-7	2.4	5
52	Superconductivity at 5 K in alkali-metal-doped phenanthrene. <i>Nature Communications</i> , 2011 , 2, 507	17.4	158
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	Pressure effect on superconductivity of A _x Fe ₂ Se ₂ (A= K and Cs). <i>New Journal of Physics</i> , 2011 , 13, 033008 ^{2.9}		28

49	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
48	Measurements of the anisotropic in-plane resistivity of underdoped FeAs-based pnictide superconductors. <i>Physical Review Letters</i> , 2011 , 107, 067001	7-4	93
47	Superconductivity in $A_{1.5}phenanthrene$ ($A=Sr, Ba$). <i>Physical Review B</i> , 2011 , 84,	3-3	53
46	Crystal structure, physical properties and superconductivity in $A_xFe_2Se_2$ single crystals. <i>New Journal of Physics</i> , 2011 , 13, 053011	2-9	39
45	Isotropic superconductivity in $LaRu_2P_2$ with the $ThCr_2Si_2$ -type structure. <i>Superconductor Science and Technology</i> , 2010 , 23, 115009	3-1	13
44	Positron annihilation study in $SmFeAsO$ and $SmFeAsO_{0.82}F_{0.18}$. <i>Applied Physics Letters</i> , 2010 , 96, 052507, 4	3-4	7
43	Electron spin resonance in $EuFe_2Co_xAs_2$ single crystals. <i>Physical Review B</i> , 2010 , 81,	3-3	32
42	Thermoelectric properties of electron- and hole-doped $BaFe_2As_2$. <i>Physical Review B</i> , 2010 , 81,	3-3	15
41	Evidence for competing magnetic and superconducting phases in superconducting $Eu_{1-x}Sr_xFe_{2-y}Co_yAs_2$ single crystals. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 235701	1-8	16
40	Structure and Physical Properties of the Layered Pnictide-Oxides: $(SrF)_{2Ti_2Pn_2O}$ ($Pn = As, Sb$) and $(SmO)_{2Ti_2Sb_2O}$. <i>Chemistry of Materials</i> , 2010 , 22, 1503-1508	9-6	46
39	Spin orientation in spin frustrated system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1579-1582	3	2
38	Evidence for local moments by electron spin resonance study of polycrystalline $LaFeAsO_{1-x}F_x$ ($x=0$ and 0.13). <i>Physical Review B</i> , 2009 , 79,	3-3	14
37	Crystal structure and phase transitions across the metal-superconductor boundary in the $SmFeAsO_{1-x}F_x$ ($0 \leq x \leq 0.20$) family. <i>Physical Review B</i> , 2009 , 79,	3-3	107
36	Magnetic-field-induced log-T insulating behavior in the resistivity of fluorine-doped $SmFeAsO_{1-x}F_x$. <i>Physical Review B</i> , 2009 , 79,	3-3	15
35	Physical properties of the layered pnictide oxides $Na_2Ti_2P_2O$ ($P=As, Sb$). <i>Physical Review B</i> , 2009 , 80,	3-3	51
34	Magnetotransport properties in $K(0.50)CoO(2)$ single crystals. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 016004	1-8	1
33	Transport properties and the large anisotropic magnetoresistance of $Cu(x)NbS(2)$ single crystals. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 275601	1-8	4
32	Superconductivity in $Ba_{1-x}Sm_xFeAs$ and $Eu_{1-x}Sm_xFeAs$ systems. <i>Science Bulletin</i> , 2009 , 54, 1872-1875, 6	5-6	1

31	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
30	Coexistence of static magnetism and superconductivity in SmFeAsO(1-x)F(x) as revealed by muon spin rotation. <i>Nature Materials</i> , 2009 , 8, 310-4	27	245
29	High-field phase-diagram of Fe arsenide superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 566-574	1.3	26
28	Determination of superconducting gap of SmFeAsFxO1-x superconductors by Andreev reflection spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 521-528	1.3	20
27	Magnetic phase diagram of Eu1-xLaxFe2As2 single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 3870-3874	2.8	15
26	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
25	Superconductivity at 56K in samarium-doped SrFeAsF. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 142203	1.8	100
24	Anisotropy in the electrical resistivity and susceptibility of superconducting BaFe2As2 single crystals. <i>Physical Review Letters</i> , 2009 , 102, 117005	7.4	210
23	Heat capacity measurements on FeAs-based compounds: a thermodynamic probe of electronic and magnetic states. <i>New Journal of Physics</i> , 2009 , 11, 025010	2.9	33
22	The peculiar physical properties and phase diagram of BaFe2-xCoxAs2 single crystals. <i>New Journal of Physics</i> , 2009 , 11, 045003	2.9	93
21	Doping dependent nonlinear Hall effect in SmFeAsO(1-x)F(x). <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 412201	1.8	6
20	Structure and physical properties of the new layered oxypnictides Sr 4 Sc 2 O 6 M 2 As 2 (M=Fe and Co). <i>Europhysics Letters</i> , 2009 , 86, 57007	1.6	23
19	Superconductivity at 43 K in SmFeAsO1-xFx. <i>Nature</i> , 2008 , 453, 761-2	50.4	1506
18	A BCS-like gap in the superconductor SmFeAsO0.85F0.15. <i>Nature</i> , 2008 , 453, 1224-7	50.4	276
17	Coexistence of magnetic fluctuations and superconductivity in the pnictide high temperature superconductor SmFeAsO1-xFx measured by muon spin rotation. <i>Physical Review Letters</i> , 2008 , 101, 097010	7.4	111
16	Anomalous transport properties and phase diagram of the FeAs-based SmFeAsO1-xFx superconductors. <i>Physical Review Letters</i> , 2008 , 101, 087001	7.4	251
15	Upper critical fields well above 100 T for the superconductor SmFeAsO0.85F0.15 with Tc=46 K. <i>Physical Review B</i> , 2008 , 78,	3.3	116
14	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

13	Doping dependence of the pressure response of T_c in the $\text{SmO}(1-x)\text{F}(x)\text{FeAs}$ superconductors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9242-3	16.4	38
12	Common Features in Electronic Structure of the Oxypnictide Superconductors from Photoemission Spectroscopy. <i>Chinese Physics Letters</i> , 2008 , 25, 3765-3768	1.8	13
11	Pseudogap and Superconducting Gap in $\text{Sm FeAs}(\text{O} 1-x \text{ F } x)$ Superconductor from Photoemission Spectroscopy. <i>Chinese Physics Letters</i> , 2008 , 25, 3761-3764	1.8	41
10	The origin of superconductivity in nominally δ -doped $\text{La}_{2-x}\text{Y}_x\text{CuO}_4$ films. <i>Superconductor Science and Technology</i> , 2008 , 21, 065005	3.1	3
9	Effect of pressure on the superconducting and spin-density-wave states of $\text{SmFeAsO}_{1-x}\text{F}_x$. <i>Physical Review B</i> , 2008 , 78,	3.3	72
8	Specific heat of the iron-based high- T_c superconductor $\text{SmO}_{1-x}\text{F}_x\text{FeAs}$. <i>Physical Review B</i> , 2008 , 77,	3.3	80
7	Superconducting energy gap and c-axis plasma frequency of $(\text{Nd},\text{Sm})\text{FeAsO}_{0.82}\text{F}_{0.18}$ superconductors from infrared ellipsometry. <i>Physical Review Letters</i> , 2008 , 101, 097011	7.4	50
6	Superconductivity induced by oxygen deficiency in $\text{La}_{0.85}\text{Sr}_{0.15}\text{FeAsO}_1$ <i>Physical Review B</i> , 2008 , 78,	3.3	24
5	Nominally δ -doped superconducting T_c - $\text{La}_{1.8}\text{Sm}_{0.2}\text{CuO}_4$ films. <i>Superconductor Science and Technology</i> , 2008 , 21, 032003	3.1	
4	Different resistivity response to spin-density wave and superconductivity at 20 K in $\text{Ca}_{1-x}\text{Na}_x\text{Fe}_2\text{As}_2$. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 422201	1.8	163
3	Metastable T_c -phase in bulk $\text{La}_{2-x}\text{Ln}_x\text{CuO}_4$ ($\text{Ln}=\text{Sm}$ and Y). <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 2197-2200	1.3	2
2	Doping-insensitive density-of-states suppression in polycrystalline iron-based superconductor. <i>Solid State Communications</i> , 2008 , 148, 504-507	1.6	17
1	Intrinsic electron doping in nominal δ -doped superconducting $(\text{La},\text{Y})_2\text{CuO}_4$ thin films grown by magnetron sputtering. <i>Applied Physics Letters</i> , 2007 , 90, 072503	3.4	10