

Songxue Chi

List of Publications by Year in descending order

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107
papers

3,986
citations

136740

32
h-index

128067

60
g-index

110
all docs

110
docs citations

110
times ranked

5233
citing authors

#	ARTICLE	IF	CITATIONS
1	Incommensurate magnetic orders and topological Hall effect in the square-net centrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>EuGa</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:math> system. Physical Review Materials, 2022, 6, .	0.9	12
2	Canted antiferromagnetic order and spin dynamics in the honeycomb-lattice compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Tb</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2021, 103, <large <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo></mml:mo><mml:mi>1J EIQq1 1 0.784314 rgb1 /Ove	12	15
3	and <mml:math		

#	ARTICLE	IF	CITATIONS
19	Lattice distortion in the spin-orbital entangled state in VO_3 perovskites. Physical Review B, 2019, 100, .	1.1	8
20	Momentum-resolved observations of the phonon instability driving geometric improper ferroelectricity in yttrium manganite. Nature Communications, 2018, 9, 15.	5.8	30
21	f-Electron States in PrPd ₅ Al ₂ . Journal of the Physical Society of Japan, 2018, 87, 094704.	0.7	7
22	Neutron spin resonance as a probe of Fermi surface nesting and superconducting gap symmetry in Ba _{0.67} K _{0.33} (Fe _{1-x} Cox) ₂ As ₂ . Physical Review B, 2018, 98, .	1.1	10
23	Local orthorhombic lattice distortions in the paramagnetic tetragonal phase of superconducting NaFe _{1-x} NixAs. Nature Communications, 2018, 9, 3128.	5.8	20
24	Supersonic propagation of lattice energy by phasons in fersnoite. Nature Communications, 2018, 9, 1823.	5.8	14
25	Dynamic Spin-Lattice Coupling and Nematic Fluctuations in NaFeAs. Physical Review X, 2018, 8, .	2.8	9
26	Coexistence of superconductivity and short-range double-stripe spin correlations in Te-vapor annealed FeTe _{1-x} Sex (x=0.2). Physical Review B, 2018, 97, .	1.1	8
27	Glassy Phonon Heralds a Strain Glass State in a Shape Memory Alloy. Physical Review Letters, 2018, 120, 245701.	2.9	24
28	Itinerant Antiferromagnetism in RuO_2 . Physical Review Letters, 2017, 118, 077201.	2.9	20
29	Phase diagram and neutron spin resonance of superconducting NaFe _{1-x} CuxAs. Physical Review B, 2017, 95, .	1.1	9
30	Magnetic Structure and Quadrupolar Order Parameter Driven by Geometrical Frustration Effect in NdB ₄ . Journal of the Physical Society of Japan, 2017, 86, 044705.	0.7	15
31	Phonon-mediated spin-flipping mechanism in the spin lices DyO_7 and HoO_7 . Physical Review B, 2017, 95, .	1.1	15
32	Manganese-induced magnetic symmetry breaking and its correlation with the metal-insulator transition in bilayered Sr ₃ (Ru _{1-x} Mnx) ₂ O ₇ . Physical Review B, 2017, 95, .	1.1	3
33	Suppression of the antiferromagnetic order when approaching the superconducting state in a phase-separated crystal of KxFe _{2-y} Se ₂ . Physical Review B, 2017, 96, .	1.1	2
34	Competing spin density wave, collinear, and helical magnetism in FeO . Physical Review B, 2017, 95, .	1.1	11
35	A Mott insulator continuously connected to iron pnictide superconductors. Nature Communications, 2016, 7, 13879.	5.8	36
36	Magnetic Precursor of the Pressure-Induced Superconductivity in Fe-Ladder Compounds. Physical Review Letters, 2016, 117, 047003.	2.9	39

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37	Pressure dependence of the magnetic ground states in MnP. Physical Review B, 2016, 93, .	1.1	36
38	Pressure effects on magnetic ground states in cobalt-doped multiferroic $\text{Mn}_{1-x}\text{Co}_x\text{WO}_4$. Physical Review B, 2016, 93, .	1.1	5
39	Electron doping evolution of the neutron spin resonance in $\text{Mn}_{1-x}\text{Fe}_x\text{WO}_4$. Physical Review B, 2016, 93, .		
40	Experimental elucidation of the origin of the $\tilde{\Gamma}$ -double spin resonances in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Physical Review B, 2016, 93, .	1.1	12
41	Transition from Sign-Reversed to Sign-Preserved Cooper-Pairing Symmetry in Sulfur-Doped Iron Selenide Superconductors. Physical Review Letters, 2016, 116, 197004.	2.9	19
42	Lattice vibrations boost demagnetization entropy in a shape-memory alloy. Physical Review B, 2015, 92, .	1.1	19
43	Structure symmetry determination and magnetic evolution in $\text{Sr}_2\text{Ir}_{1-x}\text{R}_x\text{O}_4$. Physical Review B, 2015, 92, .	1.1	42
44	Temperature and composition phase diagram in the iron-based ladder compounds $\text{Ba}_{1-x}\text{Mn}_x\text{O}_2$. Physical Review B, 2015, 91, .		
45	Spin dynamics near a putative antiferromagnetic quantum critical point in Cu-substituted $\text{BaFe}_{1-x}\text{Mn}_x\text{O}_2$: its relation to high-temperature superconductivity. Physical Review B, 2015, 92, .		
46	The effects of $\text{Co}_{3-x}\text{O}_4$ on the structure and unusual magnetism of LaCoO_3 . Journal of Physics Condensed Matter, 2015, 27, 126001. Neutron Scattering Measurements of Spin Excitations in LaFeAsO and LaCoO_3	0.7	9
47	$\text{Ba}_{1-x}\text{Mn}_x\text{O}_2$ with $x=0.953$. Physical Review Letters, 2015, 114, 057001.	2.9	30
48	The unusual magnetism of nanoparticle LaCoO_3 . Journal of Physics Condensed Matter, 2015, 27, 176003.	0.7	13
49	Orbitally driven giant phonon anharmonicity in SnSe . Nature Physics, 2015, 11, 1063-1069.	6.5	539
50	Neutron Diffraction of Ice and Water in Hydrogels. , 2015, , .		3
51	Properties of Ferroelectric Ice. , 2015, , .		0
52	Direct observation of dynamic charge stripes in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$. Nature Communications, 2014, 5, 3467.	5.8	42
53	Development of a compact <i>in situ</i> polarized ^3He neutron spin filter at Oak Ridge National Laboratory. Review of Scientific Instruments, 2014, 85, 075112.	0.6	22
54	Influence of Electron Doping on Magnetic Order in $\text{CeRu}_2\text{Al}_{10}$. Journal of the Physical Society of Japan, 2014, 83, 104707.	0.7	16

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55	Two spatially separated phases in semiconducting $\text{Rb}_{0.8}\text{Fe}_{1.5}\text{S}_2$. <i>Physical Review B</i> , 2014, 90, .	1.1	19
56	High-Pressure Single-Crystal Neutron Scattering Study of Magnetic and Fe Vacancy Orders in $(\text{Ti,Rb})_{2-x}\text{Fe}_4\text{Se}_5$ Superconductor. <i>Chinese Physics Letters</i> , 2014, 31, 127401.	1.3	6
57	Neutron-Scattering Evidence for a Periodically Modulated Superconducting Phase in the Underdoped Cuprate $\text{La}_{1-x}\text{Mg}_x\text{CuO}_2$. <i>Physical Review Letters</i> , 2014, 113, 177005.	2.9	24
58	Magnetoelectric coupling tuned by competing anisotropies in MnNiTiO_3 . <i>Physical Review B</i> , 2014, 90, .	1.1	6
59	Magnetic and structural phase transitions in the spinel compound $\text{Fe}_{1+x}\text{Cr}_2\text{O}_4$. <i>Physical Review B</i> , 2014, 89, .	1.1	15
60	Role of random electric fields in relaxors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1754-1759.	3.3	129
61	Neutron Diffraction of Ice in Hydrogels. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13453-13457.	1.2	3
62	Spin-Chirality-Driven Ferroelectricity on a Perfect Triangular Lattice Antiferromagnet. <i>Physical Review Letters</i> , 2014, 113, 147202.	2.9	23
63	Intertwining of Frustration with Magneto-Elastic Coupling in the Multiferroic LuMnO_3 . <i>Journal of the Physical Society of Japan</i> , 2014, 83, 024601.	0.7	3
64	Magnetic excitations and anomalous spin-wave broadening in multiferroic FeV_2O_4 . <i>Physical Review B</i> , 2014, 89, .	1.1	10
65	Magnetism and phase transitions in LaCoO_3 . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 382203.	0.7	31
66	Polar and Magnetic Layered A-Site and Rock Salt B-Site-Ordered NaNFeWO_6 ($\text{Ln} = \text{La, Nd}$) Perovskites. <i>Inorganic Chemistry</i> , 2013, 52, 12482-12491.	1.9	28
67	Powder neutron diffraction study of HoCoGa_5 . <i>Journal of the Korean Physical Society</i> , 2013, 63, 337-340.	0.3	4
68	Magnetic and crystal structures of $\text{Sr}_2\text{Fe}_2\text{O}_7$. A neutron diffraction study. <i>Physical Review B</i> , 2013, 87, 114407.	1.1	12
69	Uniaxial pressure effect on structural and magnetic phase transitions in NaFeAs and its comparison with as-grown and annealed $\text{BaFe}_2\text{Si}_2\text{O}_7$. <i>Physical Review B</i> , 2013, 87, .	1.1	12
70	In-plane spin excitation anisotropy in the paramagnetic state of NaFeAs . <i>Physical Review B</i> , 2013, 88, .	1.1	34
71	Magnetic phase transition in the low-dimensional compound $\text{BaMn}_2\text{Si}_2\text{O}_7$. <i>Physical Review B</i> , 2013, 87, .	1.1	33
72	Magnetic phase transition in the low-dimensional compound $\text{BaMn}_2\text{Si}_2\text{O}_7$. <i>Physical Review B</i> , 2013, 87, .	1.1	15

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73	Block magnetism coupled with local distortion in the iron-based spin-ladder compound $\text{BaFe}_3\text{Ru}_2\text{O}_{10}$. Physical Review B, 2012, 85, .	1.1	26
74	Direct evidence of a zigzag-spin-chain structure in the honeycomb lattice: A neutron and x-ray diffraction investigation of single-crystal Na_2IrO_4 . Physical Review B, 2012, 85, .	1.1	79
75	Double-Focusing Thermal Triple-Axis Spectrometer at the NCNR. Journal of Research of the National Institute of Standards and Technology, 2012, 117, 60.	1.1	38
76	A magnetolectric multiglass state in multiferroic YbFe_2O_4 . Journal of Applied Physics, 2012, 111, 07D902.	1.1	318
77	Structure and magnetic properties of the pyrochlore iridate $\text{Y}_2\text{Ir}_2\text{O}_7$. Physical Review B, 2012, 85, .	0.4	107
78	Magnetic field effect on static antiferromagnetic order and spin excitations in the underdoped iron arsenide superconductor BaFe_2As_2 . Physical Review B, 2012, 85, .	1.1	13
79	Conducting $\text{Ni}_3\text{V}_2\text{O}_{10}$. Physical Review B, 2012, 85, .	1.1	91
80	Structure and magnetic properties of the pyrochlore iridate $\text{Y}_2\text{Ir}_2\text{O}_7$. Physical Review B, 2012, 85, .	1.1	30
81	Conducting $\text{Ni}_3\text{V}_2\text{O}_{10}$. Physical Review B, 2012, 85, .		

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91	Nitrogen contamination in elastic neutron scattering. Measurement Science and Technology, 2011, 22, 047001.	1.4	2
92	Electron-doping evolution of the low-energy spin excitations in the iron arsenide superconductor BaFe_2As_2 . Physical Review B, 2010, 81, .	1.1	73
93	Antiferromagnetic critical pressure in URu_2Si_2 under hydrostatic conditions. Physical Review B, 2010, 82, .	1.1	5
94	Effect of magnetic field on the spin resonance in $\text{FeTe}_{0.5}\text{Se}_{0.5}$ seen via inelastic neutron scattering. Physical Review B, 2010, 81, .	1.1	49
95	Doping dependence of spin dynamics in electron-doped BaFe_2As_2 . Physical Review B, 2010, 82, .	1.1	38
96	Disappearance of static magnetic order and evolution of spin fluctuations in $\text{Fe}_x\text{Co}_{1-x}\text{P}_2$. Physical Review B, 2010, 82, .	1.1	52
97	Magnetic and structural properties of $\text{Ca}(\text{Fe}_{1-x}\text{Co}_x)_2\text{P}_2$ and $\text{Ca}(\text{Ni}_{1-x}\text{Co}_x)_2\text{P}_2$. Physical Review B, 2010, 81, .	1.1	16
98	Antiferromagnetic critical fluctuations in BaFe_2As_2 . Physical Review B, 2010, 82, .	1.1	15
99	Inelastic Neutron-Scattering Measurements of a Three-Dimensional Spin Resonance in the FeAs-Based BaFe_2As_2 . Physical Review Letters, 2009, 102, 107006.	2.9	170
100	Evolution of the bulk properties, structure, magnetic order, and superconductivity with Ni doping in CaFe_2As_2 . Physical Review B, 2009, 80, .	1.1	40
101	Electronic Self-Organization in the Single-Layer Manganite $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_4$. Physical Review Letters, 2009, 103, 167202.	2.9	10
102	Inelastic neutron scattering study of crystal field levels in $\text{PrOs}_4\text{As}_{12}$. Physical Review B, 2008, 77, .	1.1	3
103	Crystalline Electric Field as a Probe for Long-range Antiferromagnetic Order and Superconducting State of $\text{CeFeAsO}_{1-x}\text{F}_x$. Physical Review Letters, 2008, 101, 217002.	1.1	56
104	Impact of oxygen annealing on the heat capacity and magnetic resonance of superconducting $\text{Pr}_{0.88}\text{La}_{0.12}\text{CuO}_4$. Physical Review B, 2008, 78, .	1.1	15
105	Effect of antiferromagnetic spin correlations on lattice distortion and charge ordering in $\text{Pr}_{0.5}\text{Ca}_{1.5}\text{MnO}_4$. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10796-10801.	3.3	17
106	Resonance in the electron-doped high-transition-temperature superconductor $\text{Pr}_{0.88}\text{La}_{0.12}\text{CuO}_4$. Nature, 2006, 442, 59-62.	18.7	112
107	Field-dependent ordered phases and Kondo phenomena in the filled skutterudite compound $\text{PrOs}_4\text{As}_{12}$. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6783-6789.	3.3	27