

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	Orbitally driven giant phonon anharmonicity in SnSe . Nature Physics, 2015, 11, 1063-1069.	6.5	539
2	Direct evidence of a zigzag spin-chain structure in the honeycomb lattice: A neutron and x-ray diffraction investigation of single-crystal NaIrO_2 .	1.1	318
3	Physical Review B, 2012, 85, .		

#	ARTICLE	IF	CITATIONS
19	Effect of magnetic field on the spin resonance in $\text{FeTe}_{0.5}\text{Se}_{0.5}$ seen via inelastic neutron scattering. <i>Physical Review B</i> , 2010, 81, .	1.1	49
20	Extended anharmonic collapse of phonon dispersions in SnS and SnSe. <i>Nature Communications</i> , 2020, 11, 4430.	5.8	46
21	Quantized thermoelectric Hall effect induces giant power factor in a topological semimetal. <i>Nature Communications</i> , 2020, 11, 6167.	5.8	43
22	Neutron Diffraction Investigations of Magnetism in BiFeO_3 Epitaxial Films. <i>Advanced Functional Materials</i> , 2011, 21, 1567-1574.	7.8	42
23	Direct observation of dynamic charge stripes in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$. <i>Nature Communications</i> , 2014, 5, 3467.	5.8	42
24	Structure symmetry determination and magnetic evolution in $\text{Sr}_2\text{Ir}_{1-x}\text{RhxO}_4$. <i>Physical Review B</i> , 2015, 92, .	1.1	42
25	Evolution of the bulk properties, structure, magnetic order, and superconductivity with Ni doping in $\text{CaFe}_{1-x}\text{Ni}_x\text{P}_2$. <i>Physical Review B</i> , 2009, 80, .	1.1	40
26	Magnetic Precursor of the Pressure-Induced Superconductivity in Fe-Ladder Compounds. <i>Physical Review Letters</i> , 2016, 117, 047003.	2.9	39
27	Doping dependence of spin dynamics in electron-doped $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. <i>Physical Review B</i> , 2010, 82, .	1.1	38
28	Magnetic order and spin-hop transitions in the cobalt-doped multiferroic $\text{Mn}_{1-x}\text{Co}_x\text{WO}_4$. <i>Physical Review B</i> , 2010, 82, .	1.1	38
29	A Mott insulator continuously connected to iron pnictide superconductors. <i>Nature Communications</i> , 2016, 7, 13879.	5.8	36
30	Pressure dependence of the magnetic ground states in MnP. <i>Physical Review B</i> , 2016, 93, .	1.1	36
31	In-plane spin excitation anisotropy in the paramagnetic state of NaFeAs. <i>Physical Review B</i> , 2013, 88, .	1.1	34
32	Uniaxial pressure effect on structural and magnetic phase transitions in NaFeAs and its comparison with as-grown and annealed $\text{BaFe}_{1-x}\text{Ni}_x\text{As}_2$. <i>Physical Review B</i> , 2013, 88, .	1.1	33
33	Anharmonic Eigenvectors and Acoustic Phonon Disappearance in Quantum Paraelectric SrTiO_3 . <i>Physical Review Letters</i> , 2020, 124, 145901.	2.9	33
34	Magnetism and phase transitions in LaCoO_3 . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 382203.	0.7	31
35	Magnetic field effect on static antiferromagnetic order and spin excitations in the underdoped iron arsenide superconductor $\text{BaFe}_{1-x}\text{Ni}_x\text{As}_2$. <i>Physical Review B</i> , 2013, 88, .	1.1	30
36	Neutron Scattering Measurements of Spin Excitations in LaFeAsO and $\text{Ba}_{1-x}\text{Fe}_x\text{AsO}$. <i>Physical Review Letters</i> , 2015, 114, 057001.	2.9	30

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37	Momentum-resolved observations of the phonon instability driving geometric improper ferroelectricity in yttrium manganite. Nature Communications, 2018, 9, 15.	5.8	30
38	Polar and Magnetic Layered A-Site and Rock Salt B-Site-Ordered NaLnFeWO ₆ (Ln = La, Nd) Perovskites. Inorganic Chemistry, 2013, 52, 12482-12491.	1.9	28
39	Field-dependent ordered phases and Kondo phenomena in the filled skutterudite compound PrOs ₄ As ₁₂ . Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6783-6789.	3.3	27
40	Topological Singularity Induced Chiral Kohn Anomaly in a Weyl Semimetal. Physical Review Letters, 2020, 124, 236401.	2.9	27
41	Single-layer E -type antiferromagnetism in Mn-substituted Sr ₃ RuMnO ₁₀ . Physical Review Letters, 2014, 113, 177002.	1.1	26
42	Neutron-Scattering Evidence for a Periodically Modulated Superconducting Phase in the Underdoped Cuprate La _{1-x} Y _x FeAs ₂ . Physical Review Letters, 2014, 113, 177002.	2.9	24
43	Glassy Phonon Heralds a Strain Glass State in a Shape Memory Alloy. Physical Review Letters, 2018, 120, 245701.	2.9	24
44	Spin-Chirality-Driven Ferroelectricity on a Perfect Triangular Lattice Antiferromagnet. Physical Review Letters, 2014, 113, 147202.	2.9	23
45	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
46	Local-moment magnetism in superconducting FeTe _{0.35} Se _{0.65} as seen via inelastic neutron scattering. Physical Review B, 2011, 84, .	1.1	21
47	Local orthorhombic lattice distortions in the paramagnetic tetragonal phase of superconducting NaFe _{1-x} Ni _x As. Nature Communications, 2018, 9, 3128.	5.8	20
48	Two spatially separated phases in semiconducting Rb _{0.8} Fe _{1.5} S ₂ . Physical Review B, 2014, 90, .	1.1	19
49	Lattice vibrations boost demagnetization entropy in a shape-memory alloy. Physical Review B, 2015, 92, .	1.1	19
50	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
51	Effect of antiferromagnetic spin correlations on lattice distortion and charge ordering in Pr _{0.5} Ca _{1.5} MnO ₄ . Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10796-10801.	3.3	17
52	Temperature and composition phase diagram in the iron-based ladder compounds Ba _{1-x} Bi _x Fe ₂ As ₂ . Physical Review B, 2015, 91, .	1.1	17
53	Giant isotope effect on phonon dispersion and thermal conductivity in methylammonium lead iodide. Science Advances, 2020, 6, eaaz1842.	4.7	17
54	Magnetic and structural properties of Ca(Fe _{1-x} Cox) ₂ P ₂ and Ca(Ni _{1-x} Cox) ₂ P ₂ . Physical Review B, 2010, 81, .	1.1	16

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55	Influence of Electron Doping on Magnetic Order in CeRu ₂ Al ₁₀ . Journal of the Physical Society of Japan, 2014, 83, 104707.	0.7	16
56	Impact of oxygen annealing on the heat capacity and magnetic resonance of superconducting $\text{PrO}_{0.88}$. Physical Review B, 2008, 78, .	1.1	15
57	Antiferromagnetic critical fluctuations in BaFe_2 . Physical Review B, 2010, 82, .	1.1	15
58	Common origin of the two types of magnetic fluctuations in iron chalcogenides. Physical Review B, 2011, 84, .	1.1	15
59	Magnetic phase transition in the low-dimensional compound $\text{BaMn}_2\text{SiO}_7$. Physical Review B, 2014, 89, .	1.1	15
60	Magnetic and structural phase transitions in the spinel compound $\text{Fe}_{1+x}\text{Cr}_2\text{O}_4$. Physical Review B, 2014, 89, .	1.1	15
61	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
62	Phonon-mediated spin-flipping mechanism in the spin ices Dy_2O_7 and Ho_2O_7 . Physical Review B, 2017, 95, .	1.1	15
63	Flat-band magnetism and helical magnetic order in Ni-doped SrCo_2As_2 . Physical Review B, 2019, 100, .	1.1	15
64	Competing spin density wave, collinear, and helical magnetism in Fe_3O_7 . Physical Review B, 2017, 95, .	1.1	15
65	Supersonic propagation of lattice energy by phasons in fersnoite. Nature Communications, 2018, 9, 1823.	5.8	14
66	Magnetic field tuning of antiferromagnetic Yb_3Pt_4 . Physical Review B, 2011, 84, .	1.1	13
67	A magnetoelectric multiglass state in multiferroic YbFe_2O_4 . Journal of Applied Physics, 2012, 111, 07D902.	1.1	13
68	The unusual magnetism of nanoparticle LaCoO_3 . Journal of Physics Condensed Matter, 2015, 27, 176003.	0.7	13
69	High-temperature short-range order in Mn_3RhSi . Communications Materials, 2020, 1, .	2.9	13
70	Neutron scattering study of spin dynamics in superconducting $(\text{Tl,Rb})_2\text{FeSe}_4$. Physical Review B, 2011, 84, .	1.1	12
71	Experimental elucidation of the origin of the \tilde{A} 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
72	Incommensurate magnetic orders and topological Hall effect in the square-net centrosymmetric EuGa_2 system. Physical Review Materials, 2022, 6, .	0.9	12

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73	Electron doping evolution of the neutron spin resonance in NaFe_2As_2 . Physical Review B, 2016, 93, .		
74	Low-temperature anharmonicity and the thermal conductivity of cesium iodide. Physical Review B, 2019, 99, .	1.1	11
75	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
76	Magnetic excitations and anomalous spin-wave broadening in multiferroic FeV_2O_4 . Physical Review B, 2014, 89, .	1.1	10
77	Neutron spin resonance as a probe of Fermi surface nesting and superconducting gap symmetry in $\text{Ba}_{0.67}\text{K}_{0.33}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Physical Review B, 2018, 98, .	1.1	10
78	Spin-liquid-like state in pure and Mn-doped TbInO_3 with a nearly triangular lattice. Physical Review B, 2019, 100, .		
79	Response of Acoustic Phonons to Charge and Orbital Order in the 50% Doped Bilayer Manganite $\text{LaSr}_2\text{Mn}_2\text{O}_7$. Physical Review Letters, 2011, 107, 207202.	2.9	9
80	Spin dynamics near a putative antiferromagnetic quantum critical point in Cu-substituted BaFe_2As_2 and its relation to high-temperature superconductivity. Physical Review B, 2015, 92, .		
81	The effects of Co_3O_4 on the structure and unusual magnetism of LaCoO_3 . Journal of Physics Condensed Matter, 2015, 27, 126001.	0.7	9
82	Phase diagram and neutron spin resonance of superconducting $\text{NaFe}_{1-x}\text{Cu}_x\text{As}$. Physical Review B, 2017, 95, .	1.1	9
83	Dynamic Spin-Lattice Coupling and Nematic Fluctuations in NaFeAs . Physical Review X, 2018, 8, .	2.8	9
84	Coupling of field-induced spin fluctuations and spin-density wave in intermetallic CeAg_2Ge_2 . Physical Review B, 2011, 84, .	1.1	8
85	Coexistence of superconductivity and short-range double-stripe spin correlations in Te-vapor annealed $\text{FeTe}_{1-x}\text{Se}_x$ ($x \leq 0.2$). Physical Review B, 2018, 97, .	1.1	8
86	Anomalous magnetic behavior of $\text{Ba}_{2-x}\text{CoO}_4$ with isolated CoO_4 tetrahedra. Physical Review B, 2019, 99, .	1.1	8
87	Lattice distortion in the spin-orbital entangled state in RVO_3 perovskites. Physical Review B, 2019, 100, .	1.1	6
88	f-Electron States in PrPd_5Al_2 . Journal of the Physical Society of Japan, 2018, 87, 094704.	0.7	7
89	High-Pressure Single-Crystal Neutron Scattering Study of Magnetic and Fe Vacancy Orders in $(\text{Tl,Rb})_2\text{Fe}_4\text{Se}_5$ Superconductor. Chinese Physics Letters, 2014, 31, 127401.	1.3	6
90	Magnetoelectric coupling tuned by competing anisotropies in $\text{MnNi}_2\text{TiO}_6$. Physical Review B, 2014, 90, .	1.1	6

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91	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
92	Canted antiferromagnetic order and spin dynamics in the honeycomb-lattice compound TbMn_2O_7 . Physical Review B, 2021, 103, .	1.1	2
93	HfFeGa_2 and HfMnGa_2 : Transition-metal-based itinerant ferromagnets with low Curie temperatures. Physical Review B, 2011, 83, .	1.1	4
94	Powder neutron diffraction study of HoCoGa_5 . Journal of the Korean Physical Society, 2013, 63, 337-340.	0.3	4
95	Coexistence of Soft Modes and Dynamic Ti Disorder in Cubic BaTiO_3 Studied by Inelastic Neutron Scattering. Journal of the Physical Society of Japan, 2020, 89, 054601.	0.7	4
96	Inelastic neutron scattering study of crystal field levels in $\text{PrOs}_4\text{As}_{12}$. Physical Review B, 2008, 77, .	1.1	3
97	Neutron Diffraction of Ice in Hydrogels. Journal of Physical Chemistry B, 2014, 118, 13453-13457.	1.2	3
98	Intertwining of Frustration with Magneto-Elastic Coupling in the Multiferroic LuMnO_3 . Journal of the Physical Society of Japan, 2014, 83, 024601.	0.7	3
99	Manganese-induced magnetic symmetry breaking and its correlation with the metal-insulator transition in bilayered $\text{Sr}_3(\text{Ru}_{1-x}\text{Mn}_x)_2\text{O}_7$. Physical Review B, 2017, 95, .	1.1	3
100	Neutron Diffraction of Ice and Water in Hydrogels. , 2015, , .		3
101	Nitrogen contamination in elastic neutron scattering. Measurement Science and Technology, 2011, 22, 047001.	1.4	2
102	Suppression of the antiferromagnetic order when approaching the superconducting state in a phase-separated crystal of $\text{KxFe}_2\text{ySe}_2$. Physical Review B, 2017, 96, .	1.1	2
103	Competition of three-dimensional magnetic phases in Ca_2O_4 : A structural perspective. Physical Review B, 2020, 102, .	1.1	2
104	Anisotropic effect of a magnetic field on the neutron spin resonance in FeSe. Physical Review B, 2020, 101, .	1.1	2
105	and Ca_2O_4		