

# Yixi Su

## List of Publications by Year in descending order

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153  
papers

3,377  
citations

168829

31  
h-index

206121

51  
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154  
all docs

154  
docs citations

154  
times ranked

4406  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution from helical to collinear ferromagnetic order of the Eu <sup>2+</sup> spins in RbEu(Fe <sub>1-x</sub> Ni <sub>x</sub> ) <sub>4</sub> As <sub>4</sub> . Physical Review Research, 2022, 4, .	1.3	3
2	Bulk domain Meissner state in the ferromagnetic superconductor $\text{EuFe}_2\text{As}_2$ : Consequence of com. Physical Review B, 2022, 105, .	1.1	1
3	Reentrant Spin Glass and Large Coercive Field Observed in a Spin Integer Dimerized Honeycomb Lattice. Advanced Functional Materials, 2021, 31, .	7.8	2
4	Clamp cells for high pressure neutron scattering at low temperatures and high magnetic fields at Heinz Maier-Leibnitz Zentrum (MLZ). High Pressure Research, 2021, 41, 88-96.	0.4	2
5	Distinct magnetic ground states of $\text{R}_2\text{O}_6$ determined by. Physical Review B, 2021, 103, .	1.1	3
6	Soliton-Mediated Magnetic Reversal in an All-Oxide-Based Synthetic Antiferromagnetic Superlattice. ACS Applied Materials & Interfaces, 2021, 13, 20788-20795.	4.0	3
7	Interplay of Dzyaloshinskii-Moriya and Kitaev interactions for magnonic properties of Heisenberg-Kitaev honeycomb ferromagnets. Physical Review B, 2021, 103, .	1.1	14
8	Magnetic ordering in the Ising antiferromagnetic pyrochlore $\text{Nd}_2\text{ScNbO}_7$ . Journal of Physics Condensed Matter, 2021, 33, 245802.	0.7	9
9	Stacking faults in $\hat{\text{RuCl}}_3$ revealed by local electric polarization. Physical Review B, 2021, 103, .	1.1	11
10	Absence of moment fragmentation in the mixed $\text{B-site}$ pyrochlore $\text{Nd}_2\text{B}_2\text{O}_7$ . Physical Review B, 2021, 103, .	1.1	6
11	Comparison of the temperature- and pressure-dependent behavior of the crystal structure of CrAs. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 594-604.	0.5	2
12	Structural Transformations and Magnetic Properties of Mixed Spinel-Type $\text{NiCr}_{1.7}\text{Fe}_{0.3}\text{O}_4$ Nanoparticles. Physica Status Solidi (B): Basic Research, 2021, 258, 2100284.	0.7	2
13	Topological magnon insulators in two-dimensional van der Waals ferromagnets $\text{CrSiTe}_3$ and $\text{CrGeTe}_3$ : Toward intrinsic gap-tunability. Science Advances, 2021, 7, eabi7532.	4.7	56
14	Magnetic Field Induced Quantum Spin Liquid in the Two Coupled Trillium Lattices of $\text{K}_2\text{Mn}_2\text{O}_7$		

#	ARTICLE	IF	CITATIONS
19	Magnetic structures, spin-flop transition, and coupling of Eu and Mn magnetism in the Dirac semimetal $\text{EuMnBi}$ . Physical Review Research, 2020, 2, .	1.8	15
20	Physical properties and magnetic structure of a layered antiferromagnet $\text{PrPd}_{0.82}\text{Bi}_2$ . Chinese Physics B, 2020, 29, 067502.	0.7	0
21	Neutron scattering study of commensurate magnetic ordering in single crystal $\text{CeSb}_2$ . Journal of Physics Condensed Matter, 2020, 32, 405605.	0.7	3
22	Revealing magnetic ground state of a layered cathode material by muon spin relaxation and neutron scattering experiments. Applied Physics Letters, 2019, 114, 203901.	1.5	4
23	Universal critical behavior in the ferromagnetic superconductor $\text{Eu}(\text{Fe}_{0.75}\text{Ru}_{0.25})_2\text{As}_2$ . Physical Review B, 2019, 100, .	1.1	7
24	Plaquette instability competing with bicollinear ground state in detwinned $\text{FeTe}$ . Physical Review B, 2019, 100, .	1.1	7
25	Noncollinear magnetic structure and anisotropic magnetoelastic coupling in cobalt pyrovanadate $\text{Co}_2\text{V}_2\text{O}_7$ . Physical Review B, 2019, 100, .	1.1	12
26	Coexistence of Eu antiferromagnetism and pressure-induced superconductivity in single-crystal $\text{EuFe}_2\text{As}_2$ . Physical Review B, 2019, 100, .	1.1	6
27	Spiral magnetic ordering of the Eu moments in $\text{EuNi}_2$ . Physical Review B, 2019, 99, .	1.1	15
28	Enhancement of Curie- and spin-spiral temperatures with doping Fe in multiferroic $\text{CoCr}_2\text{O}_4$ nanoparticles. Journal of Magnetism and Magnetic Materials, 2019, 488, 165378.	1.0	23
29	Anisotropic exchange Hamiltonian, magnetic phase diagram, and domain inversion of $\text{Nd}_2\text{O}_7$ . Physical Review B, 2019, 99, .	1.1	15
30	Coexistence of Ferromagnetic and Stripe Antiferromagnetic Spin Fluctuations in $\text{SrCo}_2$ . Physical Review Letters, 2019, 122, 117204.	2.9	23
31	Spin reorientation of the Fe moments in $\text{Eu}_{0.5}\text{Fe}_{0.5}$ : Evidence for strong interplay of Eu and Fe magnetism. Physical Review B, 2019, 99, .	1.1	15
32	Intermultiplet transitions and magnetic long-range order in Sm-based pyrochlores. Physical Review B, 2019, 99, .	1.1	9
33	Double-peak specific heat and spin freezing in the spin-2 triangular lattice antiferromagnet $\text{FeAl}_2$ . Physical Review B, 2019, 99, .	1.1	12
34	Spin reorientation in $\text{FeCrAs}$ revealed by single-crystal neutron diffraction. Physical Review B, 2019, 100, .	1.1	2
35	Spin-isotropic continuum of spin excitations in antiferromagnetically ordered $\text{Fe}_{1.07}\text{Te}$ . Physical Review B, 2018, 97, .	1.1	6
36	Fluorine-free water-in-ionomer electrolytes for sustainable lithium-ion batteries. Nature Communications, 2018, 9, 5320.	5.8	71

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37	Uniaxial and hydrostatic pressure effects in $\text{RuCl}_3$ single crystals via thermal-expansion measurements. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 385702.	0.7	15
38	Cation distribution and magnetic properties of Zn-substituted $\text{CoCr}_2\text{O}_4$ nanoparticles. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	27
39	Non-Fermi-liquid to Fermi-liquid transports in iron-pnictide $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ and the electronic correlation strength in superconductors newly probed by the normal-state Hall angle. <i>New Journal of Physics</i> , 2017, 19, 033039.	1.2	1
40	Honeycomb-lattice antiferromagnet $\text{Mn}_2\text{VO}_7$ : a temperature-dependent x-ray diffraction, neutron diffraction and ESR study. <i>Materials Research Express</i> , 2017, 4, 046101.	0.8	8
41	Magnetism of monomer $\text{MnO}$ and heterodimer $\text{FePt@MnO}$ nanoparticles. <i>Physical Review B</i> , 2017, 95, .	1.1	5
42	All-oxide-based synthetic antiferromagnets exhibiting layer-resolved magnetization reversal. <i>Science</i> , 2017, 357, 191-194.	6.0	73
43	Magnetic properties and spin structure of $\text{MnO}$ single crystal and powder. <i>Journal of Physics: Conference Series</i> , 2017, 862, 012027.	0.3	8
44	Hydrostatic pressure effects on the static magnetism in $\text{Eu}(\text{Fe}_{0.925}\text{Co}_{0.075})_2\text{As}_2$ . <i>Scientific Reports</i> , 2017, 7, 3532.	1.6	9
45	Temperature and polarization dependence of low-energy magnetic fluctuations in nearly optimally doped $\text{NaFe}_{0.9785}\text{Co}_{0.0215}\text{As}$ . <i>Physical Review B</i> , 2017, 96, .	1.1	6
46	Absence of magnetism in the superconductor $\text{Ba}_2\text{Fe}_{1-x}\text{Co}_x\text{O}_7$ . <i>Physical Review B</i> , 2017, 96, .	1.1	6
47	Spiral spin-liquid and the emergence of a vortex-like state in $\text{MnSc}_2\text{S}_4$ . <i>Nature Physics</i> , 2017, 13, 157-161.	6.5	88
48	Magnetic excitations in the ground state of $\text{Yb}_2\text{Ti}_2\text{O}_7$ . <i>Physical Review B</i> , 2017, 96, .	1.1	14
49	Orphan Spins in the antiferromagnet $\text{CaFe}_2\text{O}_7$ . <i>Physical Review Letters</i> , 2017, 119, 257204.	2.9	11
50	Simulation and optimization of a new focusing polarizing bender for the diffuse neutrons scattering spectrometer DNS at MLZ. <i>Journal of Physics: Conference Series</i> , 2017, 862, 012018.	0.3	0
51	Phase diagram of $\text{Eu}$ magnetic ordering in $\text{Sr}_2\text{Fe}_2\text{O}_7$ . <i>Physical Review B</i> , 2016, 94, .	1.1	14
52	Size-dependent magnetic transitions in $\text{CoFe}_{0.1}\text{Cr}_{1.9}\text{O}_4$ nanoparticles studied by magnetic and neutron-polarization analysis. <i>Nanotechnology</i> , 2016, 27, 175702.	1.3	15
53	Structure and component dynamics in binary mixtures of poly(2-(dimethylamino)ethyl methacrylate) with water and tetrahydrofuran: A diffraction, calorimetric, and dielectric spectroscopy study. <i>Journal of Chemical Physics</i> , 2016, 144, 154903.	1.2	5
54	Spin anisotropy due to spin-orbit coupling in optimally hole-doped $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{O}_7$ . <i>Physical Review B</i> , 2016, 94, .	1.1	17

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55	Magnetic structures and magnetoelastic coupling of Fe-doped hexagonal manganites $n < \mathbf{F} < \mathbf{e} < \mathbf{x}$	1.1	20
56	Magnetic structures of the Eu and Cr moments in $\mathbf{EuCr} < \mathbf{2} < \mathbf{As}$	1.1	12
57	Neutron diffraction study. Physical Review B, 2016, 94, . Magnetic polarization of Ir in underdoped nonsuperconducting $\mathbf{Eu} < \mathbf{Fe} < \mathbf{Ir} < \mathbf{2As} < \mathbf{2}$ . Physical Review B, 2016, 93, .	1.1	7
58	Spin-wave and electromagnon dispersions in multiferroic $\mathbf{MnWO} < \mathbf{4}$ as observed by neutron spectroscopy: Isotropic Heisenberg exchange versus anisotropic Dzyaloshinskii-Moriya interaction. Physical Review B, 2016, 93, .	1.1	8
59	Revisiting the ground state of $\mathbf{CaFe} < \mathbf{2} < \mathbf{O}$	2.9	25
60	Comparison to the conventional antiferromagnet $\mathbf{CoAl} < \mathbf{2} < \mathbf{O}$	1.1	21
61	Field-induced self-assembly of iron oxide nanoparticles investigated using small-angle neutron scattering. Nanoscale, 2016, 8, 18541-18550.	2.8	36
62	Dispersible cobalt chromite nanoparticles: facile synthesis and size driven collapse of magnetism. RSC Advances, 2016, 6, 107659-107668.	1.7	5
63	SANS study of vortex lattice structural transition in optimally doped $\mathbf{Ba} < \mathbf{1-xKx} < \mathbf{Fe} < \mathbf{2As} < \mathbf{2}$ . Journal of Physics Condensed Matter, 2016, 28, 425701.	0.7	7
64	Magnetic ground state of superconducting		

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73	Approaching the true ground state of frustrated $A$ -site spinels: A combined magnetization and polarized neutron scattering study. Physical Review B, 2014, 89, .	1.1	24
74	Anisotropic neutron spin resonance in underdoped superconducting $\text{NaFe}_1\text{Co}_x\text{As}_{2-x}$ magnetic structure of $\text{FeAs}$ . Physical Review B, 2014, 90, .		
75	in superconducting		

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91	Competing Ferri- and Antiferromagnetic Phases in Geometrically Frustrated $\text{LuFe}_2\text{O}_7$ . Physical Review B, 2011, 83, . Helical spin waves, magnetic order, and fluctuations in the langasite compound $\text{Ba}_2\text{Bi}_2\text{O}_7$ . Physical Review B, 2011, 83, .	2.9	55
92	Strong coupling of Sm and Fe magnetism in $\text{SmFeAsO}$ as revealed by magnetic x-ray scattering. Physical Review B, 2011, 84, .	1.1	36
93	High quality $\text{TbMnO}_3$ films deposited on $\text{YAlO}_3$ . Journal of Alloys and Compounds, 2011, 509, 5061-5063.	1.1	33
94	Antiferromagnetic order in $\text{MnO}$ spherical nanoparticles. Physical Review B, 2011, 83, .	2.8	10
95	Physical properties, crystal and magnetic structure of layered $\text{Fe}_{1.11}\text{Te}_{1-x}\text{Se}_x$ superconductors. European Physical Journal B, 2011, 82, 113-121.	1.1	17
96	$\text{EuFe}_2\text{As}_2$ : Magnetic Structure and Local Charge Distribution Anisotropies as Seen by Resonant X-ray Scattering. Journal of Superconductivity and Novel Magnetism, 2011, 24, 705-709.	0.6	7
97	The temperature evolution of the magnetic correlations in pure and diluted spin ice $\text{Ho}_2\text{Ti}_2\text{O}_7$ . Physica B: Condensed Matter, 2011, 406, 2393-2396.	0.8	4
98	Spatial inhomogeneity in $\text{RFeAsO}_{1-x}\text{F}_x$ ( $\text{R}=\text{Pr}, \text{Nd}$ ) determined from rare-earth crystal-field excitations. Physical Review B, 2011, 83, .	1.3	2
99		1.1	11

100

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109	Antiferromagnetic spin correlations in MnO nanoparticles. Journal of Magnetism and Magnetic Materials, 2010, 322, 3333-3336.	1.0	15
110	Magnetization distribution in the tetragonal phase of $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2010, 82, .	2.1	8
111	Neutron diffraction investigation of the crystal and magnetic structures in $\text{KCrF}_3$ . Physical Review B, 2010, 82, .	3.1	21
112	Structural transitions and relaxation processes during the epitaxial growth of ultrathin $\text{CaF}_2$ on Si(111). Physical Review B, 2010, 82, .	2.1	13
113	Neutron diffraction study of phase transitions and thermal expansion of $\text{SrFeAsF}$ . Physical Review B, 2010, 81, .	1.1	20
114	Field-induced spin reorientation and giant spin-lattice coupling in $\text{EuFe}_2\text{As}_2$ . Physical Review B, 2010, 81, .	2.1	51
115	Magnetic correlations in the spin ice $\text{Ho}_2\text{Ti}_2\text{O}_7$ as revealed by neutron polarization analysis. Physical Review B, 2010, 82, .	1.1	24
116	Non-stoichiometry and the magnetic structure of $\text{Sr}_2\text{CrO}_3\text{FeAs}$ . Europhysics Letters, 2010, 89, 37006.	0.7	25
117	An approach to the magnetic ground state of the molecular magnet $\{\text{Mo}_{72}\text{Fe}_{30}\}$ . New Journal of Physics, 2010, 12, 083044.	1.2	12
118	Magnetic lattice dynamics of the oxygen-free FeAs pnictides: how sensitive are phonons to magnetic ordering?. Journal of Physics Condensed Matter, 2010, 22, 315701.	0.7	24
119	Diffuse neutron scattering study of magnetic correlations in half-doped $\text{La}_{0.5}\text{FeAs}$ . Physical Review B, 2010, 81, .	1.1	13
120	Possible magnetic order and suppression of superconductivity by V doping in $\text{Sr}_2\text{VAs}_2$ . Physical Review B, 2010, 82, .	2.1	22
121	Antiferromagnetic ordering and structural phase transition in $\text{Ba}_2\text{Sn}$ . Physical Review B, 2009, 79, .	2.1	102
122	Magnetic order in the $\text{CaFe}_2\text{As}_2$ . Physical Review B, 2009, 79, .	1	





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145	Critical Fluctuations and Quenched Disordered Two-Dimensional Charge Stripes in $\text{La}_{5/3}\text{Sr}_{1/3}\text{NiO}_4$ . Physical Review Letters, 2000, 84, 3911-3914.	2.9	47
146	Low-Temperature Structure of Indium Quantum Chains on Silicon. Physical Review Letters, 2000, 85, 4916-4919.	2.9	98
147	SYNCHROTRON X-RAY SCATTERING STUDIES OF CHARGE AND SPIN STRIPES IN MANGANITES. , 2000, , .		1
148	Charge ordering and the related structural phase transition in single-crystal $(\text{Bi}_{0.24}\text{Ca}_{0.76})\text{MnO}_3$ . Physical Review B, 1999, 59, 11687-11692.	1.1	13
149	X-ray scattering studies of charge stripes in manganites and nickelates. , 1999, , .		0
150	Study of local structure of $\text{YNi}_2\text{B}_2\text{C}$ superconductor by EXAFS. Physica C: Superconductivity and Its Applications, 1997, 282-287, 725-726.	0.6	1
151	Study of local structure changes of $\text{HBCCO}$ superconductor with EXAFS. Physica C: Superconductivity and Its Applications, 1997, 282-287, 913-914.	0.6	0
152	DNS: Diffuse scattering neutron time-of-flight spectrometer. Journal of Large-scale Research Facilities JLSRF, 0, 1, A27.	0.0	33
153	Topology Meets Correlation: Neutron Scattering from Correlated Topological Materials. Neutron News, 0, , 1-3.	0.1	0