

# Xuefeng Sun

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Syntheses, Structures, and Magnetic Properties of New Antiferromagnets $\text{Ba}_2\text{M}_3(\text{C}_2\text{O}_4)_3(\text{OH})_3 \cdot 3\text{H}_2\text{O}$ ( $\text{M} = \text{Ni}, \text{Co}$ ) with a Frustrated Spin Hexamer. <i>Crystal Growth and Design</i> , 2022, 22, 2679-2685.		0
2	Evolution of magnetic field induced ordering in the layered quantum Heisenberg triangular-lattice antiferromagnet $\text{Ba}_3\text{CoSb}_2\text{O}_9$ . <i>Physical Review B</i> , 2021, 103, .	3.2	11
3	Survival of itinerant excitations and quantum spin state transitions in $\text{YbMgGaO}_4$ with chemical disorder. <i>Nature Communications</i> , 2021, 12, 4949.	12.8	20
4	Quantum spin state transitions in the spin-1 equilateral triangular lattice antiferromagnet $\text{Na}_2\text{BaCo}(\text{PO}_4)_2$ . <i>Physical Review B</i> , 2021, 104, .		
5	Possible itinerant excitations and quantum spin state transitions in the effective spin-1/2 triangular-lattice antiferromagnet $\text{Na}_2\text{BaCo}(\text{PO}_4)_2$ . <i>Nature Communications</i> , 2020, 11, 4216.	12.8	43
6	Experimental Identification of Electric Dipoles Induced by Magnetic Monopoles in $\text{Tb}_2\text{Ti}_2\text{O}_7$ . <i>Physical Review Letters</i> , 2020, 124, 087601.	7.8	9
7	The unique evolution of transport bands and thermoelectric performance enhancement by extending low-symmetry phase to high temperature in tin selenide. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9345-9351.	5.5	8
8	Absence of long-range order in an XY pyrochlore antiferromagnet $\text{Er}_2\text{AlSbO}_7$ . <i>Physical Review Materials</i> , 2020, 4, .	2.4	3
9	Low-temperature thermal conductivity and magnetic transitions of the kagome-staircase compound $\text{Ni}_3\text{V}_2\text{O}_8$ . <i>Physical Review B</i> , 2019, 99, .	3.2	3
10	Low-temperature anharmonicity and the thermal conductivity of cesium iodide. <i>Physical Review B</i> , 2019, 99, .	3.2	11
11	Frustration-free spatially anisotropic square-lattice antiferromagnet $\text{Ni}_2\text{P}_2\text{O}_{11}$ . <i>Physical Review B</i> , 2019, 99, .	3.2	4
12	Field-Driven Quantum Criticality in the Spinel Magnet $\text{ZnCr}_2\text{O}_4$ . <i>Physical Review Letters</i> , 2018, 120, 147204.	7.8	14
13	Thermal conductivity of $\text{Ca}_3\text{Co}_2\text{O}_6$ single crystals. <i>AIP Advances</i> , 2018, 8, 055811.	1.3	6
14	Low temperature specific heat of $\text{Yb}_2\text{Ti}_2\text{O}_7$ single crystals. <i>AIP Advances</i> , 2018, 8, .	1.3	2
15	Tunable Quantum Spin Liquidity in the $\text{Yb}_6\text{Al}_2\text{O}_{11}$ -Filled Breathing Kagome Lattice. <i>Physical Review Letters</i> , 2018, 120, 227201.		
16	Roles of Oxygen Vacancy in Improper Ferroelectrics. <i>Microscopy and Microanalysis</i> , 2018, 24, 74-75.	0.4	0
17	High-field phase diagram and phase transitions in hexagonal manganite $\text{ErMnO}_3$ . <i>Physical Review B</i> , 2018, 97, .	3.2	6
18	A comparative study of ultra-low-temperature thermal conductivity of multiferroic orthoferrites $\text{RFeO}_3$ ( $\text{R} = \text{Gd}$ and $\text{Dy}$ ). <i>AIP Advances</i> , 2017, 7, .	1.3	5

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19	Thermal conductivity of ferrimagnet GdBaMn <sub>2</sub> O <sub>5.0</sub> single crystals. AIP Advances, 2017, 7, 055807.	1.3	0
20	Ferroelectricity of structural origin in the spin-chain compounds Ca <sub>3</sub> Co <sub>2</sub> xMnxO <sub>6</sub> . Physical Review B, 2017, 96, .	3.2	6
21	Atomic Mechanism of Hybridization-Dependent Surface Reconstruction with Tailored Functionality in Hexagonal Multiferroics. ACS Applied Materials & Interfaces, 2017, 9, 27322-27331.	8.0	12
22	Heisenberg antiferromagnet in the two-dimensional limit. Physical Review B, 2017, 95, . Magnetization, specific heat, and thermal conductivity of hexagonal single crystals. Physical Review B, 2017, 96, .	3.2	43
23	Low-temperature heat transport of single crystals. Physical Review B, 2017, 96, .	3.2	43
24	Low-temperature heat transport of single crystals. Physical Review B, 2017, 96, .	3.2	43

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37	Low-temperature thermal conductivity of antiferromagnetic $S=1/2$ chain material $CuCl_2 \cdot 2((CH_3)_2SO)$ . Journal of Applied Physics, 2014, 115, 17E107.	2.5	0
38	Phonon-glass-like behavior of magnetic origin in single-crystal $Tb_2Ti_2O_7$ . Applied Physics Letters, 2013, 102, .	3.2	44
39	Ferroelectric-domain-controlled magnetic anisotropy in $Co_4Fe_4O_{12}/YMnO_3$ multiferroic heterostructure. Applied Physics Letters, 2013, 102, .	3.3	13
40	Low-temperature spin excitations in frustrated $ZnCr_2O_4$ . Physical Review B, 2011, 83, 080407.	3.2	9
41	Low-temperature low-field phases of the pyrochlore quantum magnet $Tb_2Ti_2O_7$ . Physical Review Letters, 2013, 110, 137201.	3.3	33
42	Large magnetic heat transport in a Haldane chain material $Ni(C_3H_7O_2)_2NO_2ClO_4$ . Journal of Applied Physics, 2013, 113, 17B514.	2.5	3
43	Atomic-scale study of topological vortex-like domain pattern in multiferroic hexagonal manganites. Applied Physics Letters, 2013, 103, 032901.	3.3	19
44	Irreversible magnetic-field dependence of low-temperature heat transport of spin-ice compound $Dy_2Ti_2O_7$ . Applied Physics Letters, 2013, 103, 032901.	3.2	19
45	Tunable dielectric properties in Mn-doped $LuFe_2O_4$ system. Journal of Materials Research, 2012, 27, 922-927.	2.6	6
46	Low-temperature heat transport, specific heat, and magnetic properties of the hexagonal $TmMnO_3$ single crystals. Physical Review B, 2012, 86, .	3.2	17
47	Heat transport in the quantum dimerized spin-ice antiferromagnet $BaCo_2V_2O_{10}$ . Physical Review B, 2011, 83, 080407.	3.2	25
48	Paramagnetic ground state with field-induced partial order in $Nd_2Ga_8Si_8O_{22}$ . Physical Review B, 2011, 83, 080407.	3.2	23
49	Temperature dependence of phonon spectra and structural characteristics in multiferroic $LuFe_2O_4$ system. Journal of Raman Spectroscopy, 2011, 42, 1695-1700.	2.5	13
50	Thermal conductivity of pure and Zn-doped $LiCu_2O_4$ . Physical Review B, 2011, 83, 080407.	3.2	6
51	Heat transport of the quasi-one-dimensional alternating spin chain material $(CH_3)_2NH_2CuCl_3$ . Physical Review B, 2011, 84, .	3.2	14
52	Magnetic phase transitions and magnetoelectric coupling of $GdFe_3O_7$ crystals probed by low-temperature heat transport. Physical Review B, 2011, 83, 080407.	3.2	72
53	Heat transport of the quasi-one-dimensional alternating spin chain material $(CH_3)_2NH_2CuCl_3$ . Physical Review B, 2011, 84, .	3.2	20
54	Low-temperature heat transport in the layered spin-dimer compound $Ba_3Mn_2O_8$ . Physical Review B, 2011, 84, .	3.2	11

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55	Large magnetothermal conductivity of $\text{HoMnO}_3$ crystals and its relation to the magnetic-field-induced transitions of magnetic structure. <i>Physical Review B</i> , 2010, 82, .	3.2	54
56	Intrinsic Josephson junction characteristics in the stripe-ordered $\text{La}_{1.6}\text{Nd}_{0.4}\text{SrxCuO}_4$ bulk single crystals. <i>Journal of Applied Physics</i> , 2010, 108, 123903.	2.5	0
57	Deviation from the Wiedemann-Franz law induced by nonmagnetic impurities in overdoped $\text{La}_{2-x}\text{Ce}_x\text{CuO}_4$ . <i>Physical Review B</i> , 2009, 80, .	3.2	10
58	Comment on "Low-temperature phonon thermal conductivity of single-crystalline $\text{Nd}_2\text{Ce}_2\text{CuO}_7$ : Effects of sample size and surface roughness". <i>Physical Review B</i> , 2009, 79, .	3.2	14
59	Large magnetothermal conductivity in $\text{NiCl}_2\text{ET}$ . <i>Physical Review Letters</i> , 2009, 103, 077201.	7.8	51
60	Large magnetothermal conductivity in $\text{Gd}_2\text{Co}_5\text{O}_{12}$ single crystals. <i>Physical Review B</i> , 2008, 77, .	3.2	25
61	Doping dependence of phonon and quasiparticle heat transport of pure and Dy-doped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ single crystals. <i>Physical Review B</i> , 2008, 77, .	3.2	14
62	Spin-glass state of individual magnetic vortices in $\text{YBa}_2\text{Cu}_3\text{O}_y$ and $\text{La}_{2-x}\text{SrxCuO}_4$ below the metal-to-insulator crossover. <i>Physical Review B</i> , 2007, 76, .	3.2	29
63	Electronic Inhomogeneity and Breakdown of the Universal Thermal Conductivity of Cuprate Superconductors. <i>Physical Review Letters</i> , 2006, 96, 017008.	7.8	42
64	Large magnetothermal effect and spin-phonon coupling in a parent insulating cuprate $\text{Pr}_{1.3}\text{La}_{0.7}\text{CuO}_4$ . <i>Physical Review B</i> , 2005, 72, .	3.2	22
65	Low-temperature nodal-quasiparticle transport in lightly doped $\text{YBa}_2\text{Cu}_3\text{O}_y$ near the edge of the superconducting doping regime. <i>Physical Review B</i> , 2005, 72, .	3.2	32
66	Thermal Conductivity of $\text{Pr}_{1.3}\text{La}_{0.7}\text{Ce}_x\text{CuO}_4$ Single Crystals and Signatures of Stripes in an Electron-Doped Cuprate. <i>Physical Review Letters</i> , 2004, 92, 047001.	7.8	36
67	Quantum Phase Transitions in the Cuprate Superconductor $\text{Bi}_2\text{Sr}_2\text{La}_x\text{CuO}_{6+\delta}$ . <i>Physical Review Letters</i> , 2004, 92, 247004.	7.8	46
68	Metal-to-Insulator Crossover in $\text{YBa}_2\text{Cu}_3\text{O}_y$ Probed by Low-Temperature Quasiparticle Heat Transport. <i>Physical Review Letters</i> , 2004, 93, 107001.	7.8	67
69	Magnetic-Field-Induced Localization of Quasiparticles in Underdoped $\text{La}_{2-x}\text{SrxCuO}_4$ Single Crystals. <i>Physical Review Letters</i> , 2003, 90, 117004.	7.8	53
70	Thermal conductivity of lightly Sr- and Zn-doped $\text{La}_2\text{CuO}_4$ single crystals. <i>Physical Review B</i> , 2003, 67, .	3.2	44
71	Novel Anisotropy in the Superconducting Gap Structure of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Probed by Quasiparticle Heat Transport. <i>Physical Review Letters</i> , 2002, 88, 147004.	7.8	28
72	Low-Temperature Electronic Heat Transport in $\text{La}_{2-x}\text{SrxCuO}_4$ Single Crystals: Unusual Low-Energy Physics in the Normal and Superconducting States. <i>Physical Review Letters</i> , 2002, 88, 077001.	7.8	61

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73	c-axis transport and resistivity anisotropy of lightly to moderately doped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ single crystals: Implications on the charge transport mechanism. <i>Physical Review B</i> , 2002, 65, .	3.2	86
74	Response to "Comment on "Amplified spontaneous emission of a $\text{Nd}^{3+}$ -doped poly(methyl methacrylate) optical fiber at ambient temperature" [Appl. Phys. Lett. 74, 3576 (1999)]. <i>Applied Physics Letters</i> , 1999, 74, 3577-3577.	3.3	1
75	Pr-doping effect on the structure and superconductivity of $\text{Bi}_2\text{Sr}_2\text{Ca}_{1-x}\text{Pr}_x\text{Cu}_2\text{O}_y$ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 307, 67-73.	1.2	41
76	Amplified spontaneous emission of an $\text{Nd}^{3+}$ -doped poly(methyl methacrylate) optical fiber at ambient temperature. <i>Applied Physics Letters</i> , 1998, 72, 407-409.	3.3	58