Xuefeng Sun

List of Publications by Year in descending order

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76 papers	1,623 citations	257450 24 h-index	330143 37 g-index
76 all docs	76 docs citations	76 times ranked	1668 citing authors

#	Article	IF	Citations
1	c-axis transport and resistivity anisotropy of lightly to moderately dopedLa2âˆ’xSrxCuO4single crystals:â€ƒImplications on the charge transport mechanism. Physical Review B, 2002, 65, .	3.2	86
2	Magnetic phase transitions and magnetoelectric coupling of GdFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>O</mml:mi><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mm crystals probed by low-temperature heat transport. Physical Review B, 2011, 83, .	3.2	72
3	Ground state and magnetic phase transitions of orthoferrite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>DyFeO</mml:mtext><mml:mn>3</mml:mn></mml:msub></mml: Physical Review B, 2014, 89, .	3.2	68
4	Metal-to-Insulator Crossover inYBa2Cu3OyProbed by Low-Temperature Quasiparticle Heat Transport. Physical Review Letters, 2004, 93, 107001.	7.8	67
5	Low-Temperature Electronic Heat Transport inLa2âˆ’xSrxCuO4Single Crystals: Unusual Low-Energy Physics in the Normal and Superconducting States. Physical Review Letters, 2002, 88, 077001.	7.8	61
6	Amplified spontaneous emission of an Nd3+-doped poly(methyl methacrylate) optical fiber at ambient temperature. Applied Physics Letters, 1998, 72, 407-409.	3.3	58
7	Large magnetothermal conductivity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>HoMnO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m crystals and its relation to the magnetic-field-induced transitions of magnetic structure. Physical Review B, 2010, 82, .	3.2	54
8	Magnetic-Field-Induced Localization of Quasiparticles in UnderdopedLa2âˆ’xSrxCuO4Single Crystals. Physical Review Letters, 2003, 90, 117004.	7.8	53
9	Low-Temperature Heat Transport in the Low-Dimensional Quantum Magnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>NiCl</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mtext mathvariant="normal">â€“</mml:mtext><mml:mn>4</mml:mn><mml:mi>SC</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>NH</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mo) Tj ET	7.8	51
10	Quantum Phase Transitions in the Cuprate SuperconductorBi2Sr2âˆ’xLaxCuO6+Î´. Physical Review Letters, 2004, 92, 247004.	7.8	46
11	Thermal conductivity of lightly Sr- and Zn-dopedLa2CuO4single crystals. Physical Review B, 2003, 67, .	3.2	44
12	Phonon-glass-like behavior of magnetic origin in single-crystal Tb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Ti<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	44
13	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>8</mml:mn></mml:mn></mml: mathvariant="normal">O</mml:mi><mml:mn>24</mml:mn></mml:msub></mml:mrow></mml:math>: A spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></m Heisenberg antiferromagnet in the two-dimensional limit. Physical Review B, 2017, 95,	3.2	43
14	Possible itinerant excitations and quantum spin state transitions in the effective spin-1/2 triangular-lattice antiferromagnet Na2BaCo(PO4)2. Nature Communications, 2020, 11, 4216.	12.8	43
15	Electronic Inhomogeneity and Breakdown of the Universal Thermal Conductivity of Cuprate Superconductors. Physical Review Letters, 2006, 96, 017008.	7.8	42
16	Pr-doping effect on the structure and superconductivity of Bi2Sr2Ca1âˆ’xPrxCu2Oy single crystals. Physica C: Superconductivity and Its Applications, 1998, 307, 67-73.	1.2	41
17	Thermal Conductivity ofPr1.3âˆ’xLa0.7CexCuO4Single Crystals and Signatures of Stripes in an Electron-Doped Cuprate. Physical Review Letters, 2004, 92, 047001.	7.8	36
18	Low-Temperature Low-Field Phases of the Pyrochlore Quantum Magnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Tb</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ti mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2013, 110, 137201.	7.8	33

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19	Low-temperature nodal-quasiparticle transport in lightly dopedYBa2Cu3Oynear the edge of the superconducting doping regime. Physical Review B, 2005, 72, .	3.2	32
20	Spin-glass state of individual magnetic vortices inYBa2Cu3OyandLa2âˆ'xSrxCuO4below the metal-to-insulator crossover. Physical Review B, 2007, 76, .	3.2	29
21	Novel Anisotropy in the Superconducting Gap Structure ofBi2Sr2CaCu2O8+ÎTProbed by Quasiparticle Heat Transport. Physical Review Letters, 2002, 88, 147004.	7.8	28
22	Electronic and crystal structure changes induced by in-plane oxygen vacancies in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>YMn</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	3.2	28
23	Heat transport of the quasi-one-dimensional Ising-like antiferromagnet BaCo<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Gd</mml:mi><mml:mi mathvariant="normal">Ba</mml:mi><mml:msub><mml:mi mathvariant="normal">Co</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>.	3.2	25
24	Large magnetothermal effect and spin-phonon coupling in a parent insulating cuprate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>V<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Ga<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>SiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	3.2	25
25	Low-temperature heat transport of Nd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>CuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow />	3.2	23
26	Large magnetothermal effect and spin-phonon coupling in a parent insulating cuprate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>V<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Ga<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>SiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	3.2	22
27	Low-temperature heat transport of Nd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>CuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow />	3.2	20
28	Tunable Quantum Spin Liquidity in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>6</mml:mn></mml:mrow></mml:math>-th-Filled Breathing Kagome Lattice. Physical Review Letters, 2018, 120, 227201.	7.8	20
29	Survival of itinerant excitations and quantum spin state transitions in YbMgGaO4 with chemical disorder. Nature Communications, 2021, 12, 4949.	12.8	20
30	Atomic-scale study of topological vortex-like domain pattern in multiferroic hexagonal manganites. Applied Physics Letters, 2013, 103, 032901.	3.3	19
31	Inversion magnetic-field dependence of low-temperature heat transport of spin-ice compound Dy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Ti<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	3.2	19
32	Simultaneous occurrence of multiferroism and short-range magnetic order in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>DyFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2016, 93, .	3.2	19
33	Low-temperature heat transport of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CuFe</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>		

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37	Comment on â€œLow-temperature phonon thermal conductivity of single-crystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Nd</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu Effects of sample size and surface roughnessâ€• Physical Review B, 2009, 79, .	3.2	14
38	Heat transport of the quasi-one-dimensional alternating spin chain material (CH3)2NH2CuCl3. Physical Review B, 2011, 84, .	3.2	14
39	Field-Driven Quantum Criticality in the Spinel Magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>ZnCr</mml:mi></mml:mrow><mml:mrow><mml:mn>2 Physical Review Letters, 2018, 120, 147204.	7.8	14
40	Temperature dependence of phonon spectra and structural characteristics in multiferroic LuFe₂O₄ system. Journal of Raman Spectroscopy, 2011, 42, 1695-1700.	2.5	13
41	Ferroelectric-domain-controlled magnetic anisotropy in Co40Fe40B20/YMnO3 multiferroic heterostructure. Applied Physics Letters, 2013, 102, .	3.3	13
42	Magnetization, specific heat, and thermal conductivity of hexagonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>ErMnO</mml:mi><mml:mn>3</mml:mn></mml:msub></ single crystals. Physical Review B, 2017, 96, .	3.2	13
43	Thermal conductivity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">IPA-CuCl</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>: Evidence for ballistic magnon transport and the limited applicability of the Bose-Einstein condensation model. Physical Review B, 2015, 91, .	3.2	12
44	Atomic Mechanism of Hybridization-Dependent Surface Reconstruction with Tailored Functionality in Hexagonal Multiferroics. ACS Applied Materials & Interfaces, 2017, 9, 27322-27331.	8.0	12
45	Low-temperature heat transport in the layered spin-dimer compound Ba3Mn2O8. Physical Review B, 2011, 84, .	3.2	11
46	Low-temperature heat transport in the geometrically frustrated antiferromagnetsR2Ti2O7(Râ€‰=â€‰Gd and) Tj ETQq0 0 0 rgBT /Over	3.2	11
47	Spin-orbital liquid and quantum critical point in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Y</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow> Physical Review B, 2015, 91, .	3.2	11
48	Low-temperature anharmonicity and the thermal conductivity of cesium iodide. Physical Review B, 2019, 99, .	3.2	11
49	Evolution of magnetic field induced ordering in the layered quantum Heisenberg triangular-lattice antiferromagnet Ba3CoSb2O9. Physical Review B, 2021, 103, .	3.2	11
50	Deviation from the Wiedemann-Franz law induced by nonmagnetic impurities in overdoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2009, 80, .	3.2	10
51	Excitations in frustrated ZnCr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>probed by high-field thermal conductivity. Physical Review B, 2013, 87, .	3.2	9
52	Polarization Structures of Topological Domains in Multiferroic Hexagonal Manganites. Journal of the American Ceramic Society, 2014, 97, 3371-3373.	3.8	9
53	Thermal conductivity of the diamond-chain compound Cu₃(CO₃)₂(OH)₂. Journal of Physics Condensed Matter, 2016, 28, 056002.	1.8	9
54	Experimental Identification of Electric Dipoles Induced by Magnetic Monopoles in Tb2Ti2O7. Physical Review Letters, 2020, 124, 087601.	7.8	9

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55	The unique evolution of transport bands and thermoelectric performance enhancement by extending low-symmetry phase to high temperature in tin selenide. Journal of Materials Chemistry C, 2020, 8, 9345-9351.	5.5	8
56	Quantum spin state transitions in the spin-1 equilateral triangular lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Ni</mml:mi><mml:msub><mml:mi>F</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>, Physical Review B, 2021, 104, .	3.2	7
57	Crystal structure and Zn-doped LiCu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>	3.2	6
58	Tunable dielectric properties in Mn-doped LuFe₂O₄ system. Journal of Materials Research, 2012, 27, 922-927.	2.6	6
59	Magnetic Characterization and Low-Temperature Heat Transport Properties of the Orthoferrites <italic>R</italic>FeO₃ (<inline-formula> <tex-math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Transactions on Magnetics, 2015, 51, 1-4.	2.1	6
60	Ferroelectricity of structural origin in the spin-chain compounds Ca3Co2â^'xMnxO6. Physical Review B, 2017, 96, .	3.2	6
61	Thermal conductivity of Ca3Co2O6 single crystals. AIP Advances, 2018, 8, 055811.	1.3	6
62	High-field phase diagram and phase transitions in hexagonal manganite ErMnO3. Physical Review B, 2018, 97, .	3.2	6
63	Low-temperature heat transport ofNd2â^'xCexCuO4single crystals. Physical Review B, 2014, 90, .	3.2	5
64	A comparative study of ultra-low-temperature thermal conductivity of multiferroic orthoferrites RFeO3 (R = Gd and Dy). AIP Advances, 2017, 7, .	1.3	5
65	Low-temperature heat transport of spin-gapped quantum magnets. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	4
66	Frustration-free spatially anisotropic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:mr square-lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ni</mml:mi><mml:mo>[</mml Physical Review B, 2019, 99, .	3.2	4
67	Large magnetic heat transport in a Haldane chain material Ni(C3H10N2)2NO2ClO4. Journal of Applied Physics, 2013, 113, 17B514.	2.5	3
68	Low-temperature thermal conductivity and magnetic transitions of the kagome-staircase compound Ni3V2O8. Physical Review B, 2019, 99, .	3.2	3
69	Absence of long-range order in an XY pyrochlore antiferromagnet Er2AlSbO7. Physical Review Materials, 2020, 4, .	2.4	3
70	Low temperature specific heat of Yb2Ti2O7 single crystals. AIP Advances, 2018, 8, .	1.3	2
71	Response to â€œComment on â€˜Amplified spontaneous emission of a Nd3+-doped poly(methyl methacrylate) optical fiber at ambient temperatureâ€™â€Šâ€•[Appl. Phys. Lett. 74, 3576 (1999)]. Applied Physics Letters, 1999, 74, 3577-3577.	3.3	1
72	Intrinsic Josephson junction characteristics in the stripe-ordered La1.6â^'xNd0.4SrxCuO4 bulk single crystals. Journal of Applied Physics, 2010, 108, 123903.	2.5	0

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73	Low-temperature thermal conductivity of antiferromagnetic Sâ€‰=â€‰1/2 chain material CuCl2Â·2((CH3)2SO). Journal of Applied Physics, 2014, 115, 17E107.	2.5	0
74	Thermal conductivity of ferrimagnet GdBaMn2O5.0 single crystals. AIP Advances, 2017, 7, 055807.	1.3	0
75	Roles of Oxygen Vacancy in Improper Ferroelectrics. Microscopy and Microanalysis, 2018, 24, 74-75.	0.4	0
76	Syntheses, Structures, and Magnetic Properties of New Antiferromagnets Ba₂M₃(C₂O₄)₃(OH)₄Â·3H₂O (M = Ni, Co) with a Frustrated Spin Hexamer. Crystal Growth and Design, 2022, 22, 2679-2685.	3.9	0