Kit Matan

List of Publications by Year
in descending order

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28 papers	2,188 citations	394421 19 h-index	477307 29 g-index
30 all docs	30 docs citations	30 times ranked	2362 citing authors

#	Article	IF	Citations
1	Spin Dynamics of the Spin-1/2Kagome Lattice AntiferromagnetZnCu3(OH)6Cl2. Physical Review Letters, 2007, 98, 107204.	7.8	706
2	Spin chirality on a two-dimensional frustrated lattice. Nature Materials, 2005, 4, 323-328.	27.5	243
3	Crumpling a Thin Sheet. Physical Review Letters, 2002, 88, 076101.	7.8	174
4	Anisotropic itinerant magnetism and spin fluctuations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BaFe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms A neutron scattering study. Physical Review B, 2009, 79, .	3.2	147
5	Spin Waves in the Frustrated KagomÃ© Lattice AntiferromagnetKFe3(OH)6(SO4)2. Physical Review Letters, 2006, 96, 247201.	7.8	136
6	Dynamic Scaling in the Susceptibility of the Spin-12Kagome Lattice Antiferromagnet Herbertsmithite. Physical Review Letters, 2010, 104, 147201.	7.8	120
7	Thermodynamic and Transport Measurements of SuperconductingNa0.3CoO2Â·1.3H2OSingle Crystals Prepared by Electrochemical Deintercalation. Physical Review Letters, 2004, 92, 157004.	7.8	115
8	Pinwheel valence-bond solid and triplet excitations in the two-dimensional deformed kagome lattice. Nature Physics, 2010, 6, 865-869.	16.7	104
9	Nonreciprocal Magnons and Symmetry-Breaking in the Noncentrosymmetric Antiferromagnet. Physical Review Letters, 2017, 119, 047201.	7.8	62
10	Dzyaloshinskii-Moriya interaction and spin reorientation transition in the frustrated kagome lattice antiferromagnet. Physical Review B, 2011, 83, .	3.2	50
11	Magnetic structure and Dzyaloshinskii-Moriya interaction in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub> <mml:mi mathvariant="normal">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi	3.2	41
12	Doping dependence of spin dynamics in electron-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Ba</mml:mtext><mml:msub><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow Physical Review B, 2010, 82, .	3.2	38
13	Spin Seebeck effect in the polar antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub> <mml:mi mathvariant="normal">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	3.2	29
14	X-ray scattering study of the spin-Peierls transition and soft phonon behavior in TiOCl. Physical Review B, 2007, 76, .	3.2	28
15	Single-Crystal Growth of the Ternary BaFe₂As₂ Phase Using the Vertical Bridgman Technique. Japanese Journal of Applied Physics, 2009, 48, 013004.	1.5	28
16	Sodium layer chiral distribution and spin structure of <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> with a Ni honeycomb lattice. Physical Review B, 2017, 95, .	3.2	28
17	High-field magnetization and magnetic phase diagram of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub> <mml:mi mathvariant="normal">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 95, .	3.2	26
18	Large Negative Quantum Renormalization of Excitation Energies in the Spin-1/2 Kagome Lattice Antiferromagnet Cs₂Cu₃SnF₁₂. Journal of the Physical Society of Japan, 2014, 83, 043701.	1.6	20

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19	High-field multifrequency ESR in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn>5</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mrow></mml:math> antiferromagnet KFe<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>(OH)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:.	3.2	19
20	Nonreciprocal Magnons in Noncentrosymmetric Magnets. Journal of the Physical Society of Japan, 2019, 88, 081007.	1.6	15
21	Magnetic structure and high-field magnetization of the distorted kagome lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cs</mml:mi><mml:mn>2</mml:mn></mml:mrow></mml:	3.2	15
22	Ghost modes and continuum scattering in the dimerized distorted kagome lattice antiferromagnet Rb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>SnF<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>12</mml:mn>	3.2	12
23	display="inline"><mml:mrow><mml:msup><mml:mi>I²</mml:mi><mml:mo>â€³</mml:mo></mml:msup><mml:msub><mml:mrow><mml: bulk magnetization, neutron diffraction, and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î¼</mml:mi><mml:mtext>SR</mml:mtext></mml:mrow></mml:math>experiments.	3.2	9
24	Magnetic properties and magnetic structure of the frustrated quasi-one-dimensional antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Sr</mml:mi><mml:mi>Cu</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	3.2	7
25	Polarized neutron scattering studies of the kagomÃ© lattice antiferromagnet. Physica B: Condensed Matter, 2009, 404, 2529-2531.	2.7	3
26	Breakdown of linear spin-wave theory and existence of spinon bound states in the frustrated kagome-lattice antiferromagnet. Physical Review B, 2022, 105, .	3.2	3
27	High-Field Magnetism of the S=5/2 Kagome-Lattice Antiferromagnet KFe3(OH)6(SO4)2 for the Magnetic Field in the Kagome-Plane. Journal of Low Temperature Physics, 2013, 170, 242-247.	1.4	2
28	Formation of Single Polar Domain in Î±-Cu2V2O7. Journal of the Physical Society of Japan, 2021, 90, 025003.	1.6	2