Minhyea Lee

List of Publications by Year
in descending order

27 papers	1,495 citations	516710 16 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	2694 citing authors

#	Article	IF	Citations
1	Unusual Hall Effect Anomaly in MnSi under Pressure. Physical Review Letters, 2009, 102, 186601.	7.8	337
2	Large enhancement of the thermopower in NaxCoO2 at high Na doping. Nature Materials, 2006, 5, 537-540.	27.5	291
3	Anomalous Thermal Conductivity and Magnetic Torque Response in the Honeycomb Magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mrow><mml:mi>RuCl</mml:mi> Physical Review Letters, 2017, 118, 187203.	7.8	153
4	Hidden constant in the anomalous Hall effect of high-purity magnet MnSi. Physical Review B, 2007, 75, .	3.2	134
5	Sharp switching of the magnetization inFe1â^•4TaS2. Physical Review B, 2007, 75, .	3.2	99
6	Quantum superposition of a single microwave photon in two different â€™colourâ€™ states. Nature Physics, 2011, 7, 599-603.	16.7	93
7	Anomalous Hall effect and magnetoresistance in the layered ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^•</mml:mo><mml:mn>4</mml:mn></mml:mrow> mathvariant="normal">Ta</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>: The inelastic regime. Physical Review B, 2008, 77, .	3.2	82
8	Nonsaturating large magnetoresistance in semimetals. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10570-10575.	7.1	59
9	Spin structure of the anisotropic helimagnet Cr1â^•3NbS2 in a magnetic field. Applied Physics Letters, 2014, 105, .	3.3	37
10	Out-of-plane spin-orientation dependent magnetotransport properties in the anisotropic helimagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow> Physical Review B, 2015, 91, .	3.2	30
11	Large enhancement of emergent magnetic fields in MnSi with impurities and pressure. Physical Review B, 2013, 88, .	3.2	25
12	Restoration of quantum critical behavior by disorder in pressure-tuned (Mn,Fe)Si. Npj Quantum Materials, 2017, 2, .	5.2	22
13	Structural and transport properties of epitaxial NaxCoO2 thin films. Applied Physics Letters, 2005, 87, 172104.	3.3	20
14	Noise performance of lumped element direct current superconducting quantum interference device amplifiers in the 4â€“8 GHz range. Applied Physics Letters, 2010, 97, .	3.3	19
15	Enhancement of the thermopower in in the large-x regime (). Physica B: Condensed Matter, 2008, 403, 1564-1568.	2.7	18
16	Giant thermal magnetoconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrCl</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:msub></mm and a general model for spin-phonon scattering. Physical Review Research, 2020, 2, .	3.3	17
17	Quantum liquid from strange frustration in the trimer magnet Ba4Ir3O10. Npj Quantum Materials, 2020, 5, .	5.2	14
18	Spinon excitations in the quasi-one-dimensional <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:m chain compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">s</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi>CuS</mml:mi><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>. Physical Review B, 2020, 101, .	3.2	14

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19	Systematic extraction of crystal electric-field effects and quantum magnetic model parameters in triangular rare-earth magnets. Physical Review Research, 2021, 3, .	3.6	10
20	Transport properties of magnetic metal SrCo6O11. Journal of Magnetism and Magnetic Materials, 2007, 310, 1989-1990.	2.3	8
21	Origin of the Metallization ofc-Axis Resistivity upon Iodine Intercalation into Bi2Sr2CaCu2O8+Î´. Journal of Physical Chemistry B, 2001, 105, 5174-5177.	2.6	3
22	Disordered exchange is biased. Nature Physics, 2021, 17, 434-435.	16.7	3
23	Thermoelectric properties of epitaxial and topotaxial NaxCoO2 thin films. Materials Research Society Symposia Proceedings, 2005, 886, 1.	0.1	2
24	Ground state in proximity to a possible Kitaev spin liquid: The undistorted honeycomb iridate NaxIrO3 (0.60â‰¤xâ‰¤0.80). Physical Review B, 2021, 104, .	3.2	2
25	Multiple magnetic states within the A phase determined by field-orientation dependence of Mn0.9Fe0.1Si. Physical Review B, 2017, 96, .	3.2	1
26	Thermoelectric properties of the stripe-charge ordering phases in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>IrTe</mml:mi></mml:mrow><mml:mn>2</m Physical Review B, 2021, 103, .	3.2	1
27	Anomalous Hall effect and magnetoresistance in the layered ferromagnet Fe1âˆ•4TaS2: The inelastic regime. , 0, .		1