T P Perring

List of Publications by Year
in descending order

57 papers	5,829 citations	101543 36 h-index	155660 55 g-index
57 all docs	57 docs citations	57 times ranked	3575 citing authors

#	Article	IF	Citations
1	Quantum magnetic excitations from stripes in copper oxide superconductors. Nature, 2004, 429, 534-538.	27.8	547
2	Spin Waves and Electronic Interactions inLa2CuO4. Physical Review Letters, 2001, 86, 5377-5380.	7.8	541
3	The structure of the high-energy spin excitations in a high-transition-temperature superconductor. Nature, 2004, 429, 531-534.	27.8	340
4	Spin fluctuations in YBa2Cu3O6.6. Nature, 1998, 395, 580-582.	27.8	306
5	The Magnetic Excitation Spectrum and Thermodynamics of High-Tc Superconductors. Science, 1999, 284, 1344-1347.	12.6	265
6	Antiferromagnetic Short Range Order in a Two-Dimensional Manganite Exhibiting Giant Magnetoresistance. Physical Review Letters, 1997, 78, 3197-3200.	7.8	226
7	Spin dynamics in the pseudogap state of a high-temperature superconductor. Nature Physics, 2007, 3, 780-785.	16.7	201
8	High-energy spin waves inLa2CuO4. Physical Review Letters, 1991, 67, 3622-3625.	7.8	192
9	Unbound spinons in theS=1/2 antiferromagnetic chainKCuF3. Physical Review Letters, 1993, 70, 4003-4006.	7.8	188
10	Two energy scales in the spin excitations of the high-temperature superconductor La2â^'xSrxCuO4. Nature Physics, 2007, 3, 163-167.	16.7	184
11	Spin Waves throughout the Brillouin Zone of a Double-Exchange Ferromagnet. Physical Review Letters, 1996, 77, 711-714.	7.8	172
12	Fractional excitations in the square-lattice quantum antiferromagnet. Nature Physics, 2015, 11, 62-68.	16.7	162
13	Itinerant Magnetic Excitations in Antiferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CaFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>As</mml:mi><mml:mi> Physical Review Letters, 2009, 102, 187206.	7.8	156
14	Comparison of the High-Frequency Magnetic Fluctuations in Insulating and SuperconductingLa2â^'xSrxCuO4. Physical Review Letters, 1996, 76, 1344-1347.	7.8	152
15	Dispersive Excitations in the High-Temperature SuperconductorLa2â^'xSrxCuO4. Physical Review Letters, 2004, 93, 147002.	7.8	148
16	Anomalous High-Energy Spin Excitations in the High-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:math>Superconductor-Parent Antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>CuO</mml:mi><mml:mi><mml:r Physical Review Letters, 2010, 105, 247001.	7.8	146
17	Confinement of fractional quantum number particles in a condensed-matter system. Nature Physics, 2010, 6, 50-55.	16.7	119
18	Spin dynamics in the quantum antiferromagnetic chain compoundKCuF3. Physical Review B, 1991, 44, 12361-12368.	3.2	113

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19	Effect of covalent bonding on magnetism and the missing neutron intensity in copper oxide compounds. Nature Physics, 2009, 5, 867-872.	16.7	112
20	High-frequency spin waves in YBa2Cu3O6.15. Physical Review B, 1996, 54, R6905-R6908.	3.2	107
21	Spin Dynamics of the 2D Spin12Quantum Antiferromagnet Copper Deuteroformate Tetradeuterate (CFTD). Physical Review Letters, 2001, 87, 037202.	7.8	99
22	Quantum dynamics and entanglement of spins on a square lattice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15264-15269.	7.1	99
23	Testing the itinerancy of spin dynamics in superconducting Bi2Sr2CaCu2O8+Î´. Nature Physics, 2009, 5, 642-646.	16.7	95
24	Doping dependence of spin excitations and its correlations with high-temperature superconductivity in iron pnictides. Nature Communications, 2013, 4, 2874.	12.8	94
25	Isolated Spin Pairs and Two-Dimensional Magnetism inSrCr9pGa12â^'9pO19. Physical Review Letters, 1996, 76, 4424-4427.	7.8	92
26	Ordered stack of spin valves in a layered magnetoresistive perovskite. Physical Review B, 1998, 58, R14693-R14696.	3.2	81
27	Spin-glass and nonâ€“spin-glass features of a geometrically frustrated magnet. Europhysics Letters, 1996, 35, 127-132.	2.0	67
28	Emergence of Coherent Magnetic Excitations in the High Temperature Underdoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi> at Low Temperatures. Physical Review Letters, 2009, 102, 167002.	7.8	63
29	Anisotropic spin fluctuations in detwinned FeSe. Nature Materials, 2019, 18, 709-716.	27.5	60
30	Spontaneous decays of magneto-elastic excitations in non-collinear antiferromagnet (Y,Lu)MnO3. Nature Communications, 2016, 7, 13146.	12.8	57
31	A quantum liquid of magnetic octupoles on the pyrochlore lattice. Nature Physics, 2020, 16, 546-552.	16.7	54
32	Magnetic energy change available to superconducting condensation in optimally doped YBa2Cu3O6.95. Nature Physics, 2006, 2, 600-604.	16.7	53
33	Magnon Breakdown in a Two Dimensional Triangular Lattice Heisenberg Antiferromagnet of Multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LuMnO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2013, 111, 257202.	7.8	53
34	Spectacular Doping Dependence of Interlayer Exchange and Other Results on Spin Waves in Bilayer Manganites. Physical Review Letters, 2001, 87, 217201.	7.8	52
35	Strongly Enhanced Magnetic Excitations Near the Quantum Critical Point ofCr1â^'xVxand Why Strong Exchange Enhancement Need Not Imply Heavy Fermion Behavior. Physical Review Letters, 2000, 84, 999-1002.	7.8	49
36	Critical behavior of the three-dimensional Heisenberg antiferromagnetRbMnF3. Physical Review B, 1998, 57, 5281-5290.	3.2	38

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37	Upgrade to the MAPS neutron time-of-flight chopper spectrometer. Review of Scientific Instruments, 2019, 90, 035110.	1.3	37
38	Zener Double Exchange from Local Valence Fluctuations in Magnetite. Physical Review Letters, 2007, 99, 246401.	7.8	35
39	Anomalous and anisotropic nanoscale diffusion of hydration water molecules in fluid lipid membranes. Soft Matter, 2015, 11, 8354-8371.	2.7	34
40	Highâ€energy spin waves in bcc iron. Journal of Applied Physics, 1991, 69, 6219-6221.	2.5	33
41	Crystalline electric field excitations in the quantum spin liquid candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NaYbSe</mml:mi><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2021, 103, .	3.2	32
42	Complete Two-Dimensional Antiferromagnetic Spin-Wave Dispersion Relation of La2NiO4Determined by Chopper Spectrometer Installed at the Pulsed Neutron Source. Journal of the Physical Society of Japan, 1991, 60, 1197-1200.	1.6	26
43	Coexistence of Ferromagnetic and Stripe Antiferromagnetic Spin Fluctuations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SrCo</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Physical Review Letters, 2019, 122, 117204.	7.8	23
44	In-Gap Spin Excitations and Finite Triplet Lifetimes in the Dilute Singlet Ground State SystemSrCu2â^'xMgx(BO3)2. Physical Review Letters, 2006, 97, 247206.	7.8	22
45	Spin dynamics inS=3/2one-dimensional Heisenberg antiferromagnetsCsVCl3andCsVBr3. Physical Review B, 1999, 59, 14406-14416.	3.2	20
46	Inhomogeneous Level Splitting inPr2â^'xBixRu2O7. Physical Review Letters, 2005, 94, 177201.	7.8	15
47	Ground State in a Half-Doped Manganite Distinguished by Neutron Spectroscopy. Physical Review Letters, 2012, 109, 237202.	7.8	15
48	The Weights of Various Features in the Magnetic Spectra of Cuprates. Physica Status Solidi (B): Basic Research, 1999, 215, 519-522.	1.5	14
49	High-energy magnetic excitations and anomalous spin-wave damping in FeGe2. Journal of Physics Condensed Matter, 2000, 12, 8487-8493.	1.8	8
50	Perringet al.Reply:. Physical Review Letters, 1998, 80, 4359-4359.	7.8	7
51	Interpretable, calibrated neural networks for analysis and understanding of inelastic neutron scattering data. Journal of Physics Condensed Matter, 2021, 33, 194006.	1.8	7
52	Highâ€energy magnetic excitations in Mn90Cu10. Journal of Applied Physics, 1993, 73, 6548-6550.	2.5	6
53	Spin texture induced by non-magnetic doping and spin dynamics in 2D triangular lattice antiferromagnet h-Y(Mn,Al)O3. Nature Communications, 2021, 12, 2306.	12.8	6
54	Absence of strong magnetic fluctuations in FeP-based systems LaFePO and Sr₂ScO₃FeP. Journal of Physics Condensed Matter, 2013, 25, 425701.	1.8	3

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55	Temperature dependence of the $(pi,0)$ anomaly in the excitation spectrum of the 2D quantum Heisenberg antiferromagnet. Journal of Physics Condensed Matter, 2020, 32, 374007.	1.8	3
56	Spinons in a strongly correlated copper oxide chain. Physica B: Condensed Matter, 2004, 350, E249-E252.	2.7	0
57	Antiferromagnetic fluctuations and charge carrier localization in ferromagnetic bilayer manganites: electrical resistivity scales exponentially with short-range order controlled by temperature and magnetic field. Journal of Physics Condensed Matter, 2020, 32, 374013.	1.8	0