

# T P Perring

## List of Publications by Year in descending order

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57  
papers

5,829  
citations

101543

36  
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155660

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all docs

57  
docs citations

57  
times ranked

3575  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystalline electric field excitations in the quantum spin liquid candidate $\text{NaYbSe}_2$ . Physical Review B, 2021, 103, .	1.8	7
2	Interpretable, calibrated neural networks for analysis and understanding of inelastic neutron scattering data. Journal of Physics Condensed Matter, 2021, 33, 194006.	12.8	6
3	Spin texture induced by non-magnetic doping and spin dynamics in 2D triangular lattice antiferromagnet $\text{h-Y(Mn,Al)O}_3$ . Nature Communications, 2021, 12, 2306.	1.8	3
4	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.	16.7	54
5	A quantum liquid of magnetic octupoles on the pyrochlore lattice. Nature Physics, 2020, 16, 546-552.	1.8	0
6	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.	27.5	60
7	Anisotropic spin fluctuations in detwinned FeSe. Nature Materials, 2019, 18, 709-716.	7.8	23
8	Coexistence of Ferromagnetic and Stripe Antiferromagnetic Spin Fluctuations in $\text{SrCo}_2\text{As}_2$ . Physical Review Letters, 2019, 122, 117204.	1.3	37
9	Upgrade to the MAPS neutron time-of-flight chopper spectrometer. Review of Scientific Instruments, 2019, 90, 035110.	12.8	57
10	Spontaneous decays of magneto-elastic excitations in non-collinear antiferromagnet $(\text{Y,Lu})\text{MnO}_3$ . Nature Communications, 2016, 7, 13146.	2.7	34
11	Anomalous and anisotropic nanoscale diffusion of hydration water molecules in fluid lipid membranes. Soft Matter, 2015, 11, 8354-8371.	16.7	162
12	Fractional excitations in the square-lattice quantum antiferromagnet. Nature Physics, 2015, 11, 62-68.	7.8	53
13	Magnon Breakdown in a Two Dimensional Triangular Lattice Heisenberg Antiferromagnet of Multiferroic $\text{LuMnO}_3$ . Physical Review Letters, 2013, 111, 257202.	12.8	94
14	Doping dependence of spin excitations and its correlations with high-temperature superconductivity in iron pnictides. Nature Communications, 2013, 4, 2874.	1.8	3
15	Absence of strong magnetic fluctuations in FeP-based systems $\text{LaFePO}$ and $\text{Sr}_2\text{ScO}_3\text{FeP}$ . Journal of Physics Condensed Matter, 2013, 25, 425701.	7.8	15
16	Ground State in a Half-Doped Manganite Distinguished by Neutron Spectroscopy. Physical Review Letters, 2012, 109, 237202.	16.7	119
17	Confinement of fractional quantum number particles in a condensed-matter system. Nature Physics, 2010, 6, 50-55.	7.8	146
18	Anomalous High-Energy Spin Excitations in the High- $T_c$ Superconductor-Parent Antiferromagnet $\text{La}_2\text{CuO}_4$ . Physical Review Letters, 2010, 105, 247001.		

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19	Emergence of Coherent Magnetic Excitations in the High Temperature Underdoped $\text{La}_{1-x}\text{Sr}_x\text{CuO}_4$ at Low Temperatures. Physical Review Letters, 2009, 102, 167002.	7.8	63
20	Testing the itinerancy of spin dynamics in superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ . Nature Physics, 2009, 5, 642-646.	16.7	95
21	Effect of covalent bonding on magnetism and the missing neutron intensity in copper oxide compounds. Nature Physics, 2009, 5, 867-872.	16.7	112
22	Itinerant Magnetic Excitations in Antiferromagnetic $\text{CaFe}_2\text{As}_2$ . Physical Review Letters, 2009, 102, 187206.	7.8	156
23	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
24	Zener Double Exchange from Local Valence Fluctuations in Magnetite. Physical Review Letters, 2007, 99, 246401.	7.8	35
25	Two energy scales in the spin excitations of the high-temperature superconductor $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . Nature Physics, 2007, 3, 163-167.	16.7	184
26	Spin dynamics in the pseudogap state of a high-temperature superconductor. Nature Physics, 2007, 3, 780-785.	16.7	201
27	Magnetic energy change available to superconducting condensation in optimally doped $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$ . Nature Physics, 2006, 2, 600-604.	16.7	53
28	In-Gap Spin Excitations and Finite Triplet Lifetimes in the Dilute Singlet Ground State System $\text{SrCu}_2\text{Mg}_x(\text{BO}_3)_2$ . Physical Review Letters, 2006, 97, 247206.	7.8	22
29	Inhomogeneous Level Splitting in $\text{Pr}_2\text{BiRu}_2\text{O}_7$ . Physical Review Letters, 2005, 94, 177201.	7.8	15
30	Dispersive Excitations in the High-Temperature Superconductor $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . Physical Review Letters, 2004, 93, 147002.	7.8	148
31	Quantum magnetic excitations from stripes in copper oxide superconductors. Nature, 2004, 429, 534-538.	27.8	547
32	The structure of the high-energy spin excitations in a high-transition-temperature superconductor. Nature, 2004, 429, 531-534.	27.8	340
33	Spinons in a strongly correlated copper oxide chain. Physica B: Condensed Matter, 2004, 350, E249-E252.	2.7	0
34	Spin Waves and Electronic Interactions in $\text{La}_2\text{CuO}_4$ . Physical Review Letters, 2001, 86, 5377-5380.	7.8	541
35	Spectacular Doping Dependence of Interlayer Exchange and Other Results on Spin Waves in Bilayer Manganites. Physical Review Letters, 2001, 87, 217201.	7.8	52
36	Spin Dynamics of the 2D Spin-1 Quantum Antiferromagnet Copper Deuterioformate Tetradeuterate (CFTD). Physical Review Letters, 2001, 87, 037202.	7.8	99

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37	High-energy magnetic excitations and anomalous spin-wave damping in FeGe <sub>2</sub> . Journal of Physics Condensed Matter, 2000, 12, 8487-8493.	1.8	8
38	Strongly Enhanced Magnetic Excitations Near the Quantum Critical Point of Cr <sub>1-x</sub> V <sub>x</sub> and Why Strong Exchange Enhancement Need Not Imply Heavy Fermion Behavior. Physical Review Letters, 2000, 84, 999-1002.	7.8	49
39	Spin dynamics in S=3/2 one-dimensional Heisenberg antiferromagnets CsVCl <sub>3</sub> and CsVBr <sub>3</sub> . Physical Review B, 1999, 59, 14406-14416.	3.2	20
40	The Weights of Various Features in the Magnetic Spectra of Cuprates. Physica Status Solidi (B): Basic Research, 1999, 215, 519-522.	1.5	14
41	The Magnetic Excitation Spectrum and Thermodynamics of High-T <sub>c</sub> Superconductors. Science, 1999, 284, 1344-1347.	12.6	265
42	Spin fluctuations in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.6</sub> . Nature, 1998, 395, 580-582.	27.8	306
43	Ordered stack of spin valves in a layered magnetoresistive perovskite. Physical Review B, 1998, 58, R14693-R14696.	3.2	81
44	Critical behavior of the three-dimensional Heisenberg antiferromagnet RbMnF <sub>3</sub> . Physical Review B, 1998, 57, 5281-5290.	3.2	38
45	Perring et al. Reply. Physical Review Letters, 1998, 80, 4359-4359.	7.8	7
46	Antiferromagnetic Short Range Order in a Two-Dimensional Manganite Exhibiting Giant Magnetoresistance. Physical Review Letters, 1997, 78, 3197-3200.	7.8	226
47	High-frequency spin waves in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.15</sub> . Physical Review B, 1996, 54, R6905-R6908.	3.2	107
48	Spin Waves throughout the Brillouin Zone of a Double-Exchange Ferromagnet. Physical Review Letters, 1996, 77, 711-714.	7.8	172
49	Comparison of the High-Frequency Magnetic Fluctuations in Insulating and Superconducting La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> . Physical Review Letters, 1996, 76, 1344-1347.	7.8	152
50	Spin-glass and non-spin-glass features of a geometrically frustrated magnet. Europhysics Letters, 1996, 35, 127-132.	2.0	67
51	Isolated Spin Pairs and Two-Dimensional Magnetism in SrCr <sub>9</sub> pGa <sub>12</sub> ~ <sup>9</sup> pO <sub>19</sub> . Physical Review Letters, 1996, 76, 4424-4427.	7.8	92
52	High-energy magnetic excitations in Mn <sub>90</sub> Cu <sub>10</sub> . Journal of Applied Physics, 1993, 73, 6548-6550.	2.5	6
53	Unbound spinons in the S=1/2 antiferromagnetic chain KCuF <sub>3</sub> . Physical Review Letters, 1993, 70, 4003-4006.	7.8	188
54	High-energy spin waves in bcc iron. Journal of Applied Physics, 1991, 69, 6219-6221.	2.5	33

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55	Complete Two-Dimensional Antiferromagnetic Spin-Wave Dispersion Relation of $\text{La}_2\text{NiO}_4$ Determined by Chopper Spectrometer Installed at the Pulsed Neutron Source. <i>Journal of the Physical Society of Japan</i> , 1991, 60, 1197-1200.	1.6	26
56	High-energy spin waves in $\text{La}_2\text{CuO}_4$ . <i>Physical Review Letters</i> , 1991, 67, 3622-3625.	7.8	192
57	Spin dynamics in the quantum antiferromagnetic chain compound $\text{KCuF}_3$ . <i>Physical Review B</i> , 1991, 44, 12361-12368.	3.2	113