

Thomas E Mason

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Spin Waves and Electronic Interactions in La_2CuO_4 . <i>Physical Review Letters</i> , 2001, 86, 5377-5380.	7.8	541
2	Incommensurate magnetic fluctuations in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physical Review Letters</i> , 1991, 67, 1791-1794.	7.8	534
3	Antiferromagnetic order induced by an applied magnetic field in a high-temperature superconductor. <i>Nature</i> , 2002, 415, 299-302.	27.8	478
4	Polarized neutron determination of the magnetic excitations in $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Physical Review Letters</i> , 1993, 70, 3490-3493.	7.8	436
5	Spins in the Vortices of a High-Temperature Superconductor. <i>Science</i> , 2001, 291, 1759-1762.	12.6	314
6	Magnetic dynamics of superconducting $\text{La}_{1.86}\text{Sr}_{0.14}\text{CuO}_4$. <i>Physical Review Letters</i> , 1992, 68, 1414-1417.	7.8	286
7	Magnetic excitations in the heavy-fermion superconductor URu_2Si_2 . <i>Physical Review B</i> , 1991, 43, 12809-12822.	3.2	276
8	Nearly Singular Magnetic Fluctuations in the Normal State of a High-Tc Cuprate Superconductor. <i>Science</i> , 1997, 278, 1432-1435.	12.6	273
9	Low energy excitations in superconducting $\text{La}_{1.86}\text{Sr}_{0.14}\text{CuO}_4$. <i>Physical Review Letters</i> , 1993, 71, 919-922.	7.8	199
10	Spin freezing in the geometrically frustrated pyrochlore antiferromagnet $\text{Tb}_2\text{Mo}_2\text{O}_7$. <i>Physical Review Letters</i> , 1992, 69, 3244-3247.	7.8	182
11	Spin gap and antiferromagnetic correlations in the Kondo insulator CeNiSn . <i>Physical Review Letters</i> , 1992, 69, 490-493.	7.8	178
12	Transition to long-range magnetic order in the highly frustrated insulating pyrochlore antiferromagnet $\text{Gd}_2\text{Ti}_2\text{O}_7$. <i>Physical Review B</i> , 1999, 59, 14489-14498.	3.2	174
13	The Spallation Neutron Source in Oak Ridge: A powerful tool for materials research. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 955-960.	2.7	163
14	Comparison of the High-Frequency Magnetic Fluctuations in Insulating and Superconducting $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physical Review Letters</i> , 1996, 76, 1344-1347.	7.8	152
15	Spin Glass Behavior in URh_2Ge_2 . <i>Physical Review Letters</i> , 1997, 78, 354-357.	7.8	142
16	X-ray magnetic scattering in antiferromagnetic URu_2Si_2 . <i>Physical Review Letters</i> , 1990, 65, 3185-3188.	7.8	131
17	Spin gap and magnetic coherence in a clean high-temperature superconductor. <i>Nature</i> , 1999, 400, 43-46.	27.8	114
18	Neutron-scattering measurements of long-range antiferromagnetic order in URu_2Si_2 . <i>Physical Review Letters</i> , 1990, 65, 3189-3192.	7.8	113

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19	Tetracritical behavior of CsMnBr ₃ . Physical Review Letters, 1989, 62, 1380-1383.	7.8	109
20	In situ generation of intergranular strains in an Al7050 alloy. Acta Materialia, 1998, 46, 1503-1518.	7.9	103
21	New Magnetic Coherence Effect in Superconducting La _{2-x} Sr _x CuO ₄ . Physical Review Letters, 1996, 77, 1604-1607.	7.8	98
22	Spin fluctuations in superconducting YBa ₂ Cu ₃ O _{6.5} . Physical Review Letters, 1990, 64, 800-803.	7.8	94
23	Intergranular stresses in Zircaloy-2 with rod texture. Acta Materialia, 1999, 47, 373-383.	7.9	94
24	Magnetic correlations in deuteronium jarosite, a model S = 5/2 Kagomé antiferromagnet. Europhysics Letters, 1998, 42, 325-330.	2.0	87
25	Neutron scattering measurements of critical exponents in CsMnBr ₃ : A Z ₂ antiferromagnet. Physical Review B, 1989, 39, 586-590.	3.2	84
26	Gap formation and magnetic ordering in URu ₂ Si ₂ probed by high-field magnetoresistance. Physical Review B, 1996, 53, R6014-R6017.	3.2	65
27	Neutron-scattering study of spin fluctuations in superconducting YBa ₂ Cu ₃ O _{6+x} (x=0.40, 0.45, 0.50). Physical Review B, 1991, 43, 5554-5563.	3.2	62
28	The generation of intergranular strains in 309H stainless steel under uniaxial loading. Acta Materialia, 2000, 48, 1131-1140.	7.9	53
29	The development of intergranular strains in a high-strength steel. Journal of Strain Analysis for Engineering Design, 1998, 33, 373-383.	1.8	44
30	Small angle neutron scattering study of the magnetic flux-line lattice in single crystal 2H-NbSe ₂ . Physical Review Letters, 1994, 72, 278-281.	7.8	42
31	Non-trivial magnetic order in URu ₂ Si ₂ ?. Journal of Physics Condensed Matter, 1995, 7, 5089-5096.	1.8	37
32	Disorder to order transition in the magnetic and electronic properties of URh ₂ Ge ₂ . Physical Review B, 2000, 61, 8878-8887.	3.2	36
33	Experimental confirmation of the existence of a new universality class for stacked triangular lattices. Journal of Physics C: Solid State Physics, 1987, 20, L945-L948.	1.5	34
34	Magnetic fluctuations and the superconducting transition in the heavy-fermion material UPd ₂ Al ₃ . Physica B: Condensed Matter, 1994, 199-200, 151-153.	2.7	33
35	RITA: The reinvented triple axis spectrometer. Canadian Journal of Physics, 1995, 73, 697-702.	1.1	27
36	Influence of a magnetic field on the antiferromagnetic order in UPt ₃ . Physical Review B, 1996, 54, R6873-R6876.	3.2	25

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37	Spin excitations and the electronic specific heat of URu ₂ Si ₂ . Physical Review B, 1991, 43, 11471-11473.	3.2	23
38	The early development of neutron diffraction: science in the wings of the Manhattan Project. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, 37-44.	0.3	23
39	Antiferromagnetism and superconductivity in URu ₂ Si ₂ . Physica B: Condensed Matter, 1990, 163, 45-48.	2.7	22
40	Pulsed Neutron Scattering for the 21st Century. Physics Today, 2006, 59, 44-49.	0.3	21
41	Magnetic ordering and fluctuations in the S=1/2 square Heisenberg antiferromagnet Cu(DCO ₂) ₂ ·4D ₂ O. Journal of Physics Condensed Matter, 1992, 4, L71-L76.	1.8	19
42	High field study of the magnetic phase transition of URu ₂ Si ₂ . Physica B: Condensed Matter, 1997, 230-232, 74-76.	2.7	19
43	Magnetic fluctuations in superconducting La _{2-x} Sr _x CuO ₄ . Physica B: Condensed Matter, 1994, 199-200, 284-287.	2.7	18
44	Absolute measurements of the high-frequency magnetic dynamics in High-Tc superconductors. Physica B: Condensed Matter, 1997, 241-243, 765-772.	2.7	17
45	Tetracritical dynamics of CsMnBr ₃ . Journal of Magnetism and Magnetic Materials, 1992, 104-107, 197-198.	2.3	15
46	Spin wave collapse and incommensurate fluctuations in URu ₂ Si ₂ . Physica B: Condensed Matter, 1994, 199-200, 95-97.	2.7	15
47	The importance of advancing technology to America's energy goals. Energy Policy, 2010, 38, 3886-3890.	8.8	15
48	Monte Carlo simulations of CsMnBr ₃ . Journal of Applied Physics, 1990, 67, 5421-5423.	2.5	13
49	Magnetic excitations in CePd ₂ Si ₂ . Journal of Applied Physics, 1990, 67, 5203-5205.	2.5	13
50	Recent neutron-scattering results on high-temperature superconductors. Physica B: Condensed Matter, 1995, 213-214, 43-47.	2.7	13
51	Magnetic behavior of the heavy-fermion system UPd ₂ Ga ₃ . Physical Review B, 1995, 52, 12784-12789.	3.2	13
52	Magnetic and specific heat studies of the cation-ordered pyrochlore NH ₄ CoAlF ₆ . Physical Review B, 1998, 58, 5550-5553.	3.2	13
53	Antiferromagnetism, structural properties, and electronic transport of BaCo _{0.9} Ni _{0.1} S _{1.8} . Physical Review B, 1997, 55, 12375-12381.	3.2	12
54	Itinerant antiferromagnetism in FeGe ₂ . Physica B: Condensed Matter, 1997, 237-238, 449-452.	2.7	11

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55	Characterisation of spin-waves in copper(II) deuterioformate tetradeuterate: a square $S=1/2$ Heisenberg antiferromagnet. Solid State Communications, 1999, 112, 561-564.	1.9	11
56	Next-Generation Neutron Sources. MRS Bulletin, 2003, 28, 923-928.	3.5	11
57	Magnetic susceptibility of CsMnBr_3 near the tetracritical point. Physical Review B, 1990, 42, 2715-2717.	3.2	10
58	Magnetic fluctuations in heavy-fermion metals. Physica B: Condensed Matter, 1995, 213-214, 11-15.	2.7	10
59	Dispersion of spin-waves in the $S=1/2$ square Heisenberg antiferromagnet $\text{Cu}(\text{DFO})_2 \cdot 4\text{D}_2\text{O}$. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 557-558.	2.3	9
60	From insulator to metal with hot and cold neutrons. Physica B: Condensed Matter, 1993, 192, 103-108.	2.7	9
61	The magnetic phase diagram and transport properties of. Journal of Physics Condensed Matter, 1997, 9, 1347-1355.	1.8	9
62	The RITA spectrometer at Risø, design considerations and recent results. Physica B: Condensed Matter, 1997, 241-243, 50-55.	2.7	9
63	The spallation neutron source is taking shape. Applied Physics A: Materials Science and Processing, 2002, 74, s11-s14.	2.3	9
64	High-energy magnetic excitations and anomalous spin-wave damping in FeGe_2 . Journal of Physics Condensed Matter, 2000, 12, 8487-8493.	1.8	8
65	Pseudogap term in the magnetic response of cuprate superconductors. Physical Review B, 2011, 84, .	3.2	8
66	Magnetic ordering in a dilute triangular XY antiferromagnet. Journal of Applied Physics, 1990, 67, 5424-5426.	2.5	7
67	Long range antiferromagnetic order and its coexistence with superconductivity in URu_2Si_2 . Journal of Magnetism and Magnetic Materials, 1992, 108, 77-78.	2.3	7
68	Spin dynamics of the Kondo insulator CeNiSn approaching the metallic phase. Physica B: Condensed Matter, 1997, 234-236, 861-863.	2.7	7
69	A long-wavelength target station for the spallation neutron source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 545, 1-19.	1.6	7
70	Far-infrared vibrational mode in $\text{Cu}_1-x\text{M}_x\text{Ge}_1-y\text{Si}_y\text{O}_3$, ($M=\text{Zn}, \text{Cd}, \text{Ni}$). Physical Review B, 1999, 59, 1157-1161.	3.2	6
71	Critical scattering from paramagnetic CsMnBr_3 : An XY antiferromagnet with chiral degeneracy. Physica B: Condensed Matter, 1989, 156-157, 244-246.	2.7	5
72	Spin glass behaviour in URh_2Ge_2 . Physica B: Condensed Matter, 1997, 230-232, 105-107.	2.7	5

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73	Thermodynamic study of the magnetic phase transition in UNi4B. Physica B: Condensed Matter, 1997, 230-232, 108-110.	2.7	5
74	Neutron scattering and the search for mechanisms of superconductivity. Physica C: Superconductivity and Its Applications, 1999, 317-318, 9-17.	1.2	4
75	Spin excitations and exchange couplings in the cuprate antiferromagnet La2CuO4. Physica B: Condensed Matter, 2000, 276-278, 592-593.	2.7	4
76	Magnetic fluctuations in lamellar copper oxides. Journal of Physics and Chemistry of Solids, 1995, 56, 1911.	4.0	3
77	High energy spin excitation of a high-Tc superconductor La1.85Sr0.15CuO4. European Physical Journal D, 1996, 46, 1147-1148.	0.4	3
78	Texture and residual strain in an Al7050 billet. Physica B: Condensed Matter, 1997, 241-243, 1267-1269.	2.7	3
79	Transport properties of Nd1-x Sr x MnO3 (1/4 ≤ x ≤ 1/2). European Physical Journal D, 1996, 46, 2017-2018.	0.4	2
80	UNi4B: ordered and disordered uranium moments. Physica B: Condensed Matter, 1996, 223-224, 237-240.	2.7	2
81	Magnetic fluctuations in UNi4B. Physica B: Condensed Matter, 1997, 241-243, 669-671.	2.7	2
82	Static and Dynamic Spins in Superconducting La2-xSrxCuO4: The First Years. Journal of Low Temperature Physics, 2004, 135, 621-664.	1.4	2
83	Magnetotransport of the moderately disordered heavy fermion URh2Ge2. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 954-955.	2.3	2
84	Canadian Contributions to the Manhattan Project and Early Nuclear Research. Nuclear Technology, 2021, 207, S134-S146.	1.2	2
85	Magnetic properties of RbVF4. Journal of Physics Condensed Matter, 1991, 3, 2953-2961.	1.8	1
86	Magnetic structure and phase diagram of heavy fermion UPd2Ga3. Physica B: Condensed Matter, 1996, 223-224, 204-207.	2.7	1
87	Magnetic coherence in the transition metal oxides. Physica B: Condensed Matter, 1997, 237-238, 30-35.	2.7	1
88	Magnetic coherence in the superconducting and normal states of La2-xSrxCuO4. Physica C: Superconductivity and Its Applications, 1997, 282-287, 231.	1.2	1
89	New Frontiers in the Application of Neutron Scattering to Materials Science. MRS Bulletin, 2003, 28, 903-906.	3.5	1
90	Magnetic ordering in Tb3Sb4Au3. Physica B: Condensed Matter, 1997, 241-243, 786-788.	2.7	0

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91	FIELD-INDUCED ANTIFERROMAGNETISM IN THE HIGH-TEMPERATURE SUPERCONDUCTOR $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. International Journal of Modern Physics B, 2002, 16, 3197-3197.	2.0	0
92	VORTEX MAGNETISM IN THE HIGH-TEMPERATURE SUPERCONDUCTOR $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. International Journal of Modern Physics B, 2002, 16, 3155-3155.	2.0	0