

Thomas E Mason

List of Publications by Year in descending order

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6,294
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145106

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79
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95
all docs

95
docs citations

95
times ranked

3532
citing authors

#	ARTICLE	IF	CITATIONS
1	Canadian Contributions to the Manhattan Project and Early Nuclear Research. Nuclear Technology, 2021, 207, S134-S146.	0.7	2
2	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
3	Pseudogap term in the magnetic response of cuprate superconductors. Physical Review B, 2011, 84, .	1.1	8
4	The importance of advancing technology to America's energy goals. Energy Policy, 2010, 38, 3886-3890.	4.2	15
5	Pulsed Neutron Scattering for the 21st Century. Physics Today, 2006, 59, 44-49.	0.3	21
6	The Spallation Neutron Source in Oak Ridge: A powerful tool for materials research. Physica B: Condensed Matter, 2006, 385-386, 955-960.	1.3	163
7	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.	0.7	7
8	Static and Dynamic Spins in Superconducting La _{2-x} Sr _x CuO ₄ : The Rise, Years. Journal of Low Temperature Physics, 2004, 135, 621-664.	0.6	2
9	Magnetotransport of the moderately disordered heavy fermion URh ₂ Ge ₂ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 954-955.	1.0	2
10	Next-Generation Neutron Sources. MRS Bulletin, 2003, 28, 923-928.	1.7	11
11	New Frontiers in the Application of Neutron Scattering to Materials Science. MRS Bulletin, 2003, 28, 903-906.	1.7	1
12	FIELD-INDUCED ANTIFERROMAGNETISM IN THE HIGH-TEMPERATURE SUPERCONDUCTOR La _{2-x} Sr _x CuO ₄ . International Journal of Modern Physics B, 2002, 16, 3197-3197.	1.0	0
13	VORTEX MAGNETISM IN THE HIGH-TEMPERATURE SUPERCONDUCTOR La _{2-x} Sr _x CuO ₄ . International Journal of Modern Physics B, 2002, 16, 3155-3155.	1.0	0
14	The spallation neutron source is taking shape. Applied Physics A: Materials Science and Processing, 2002, 74, s11-s14.	1.1	9
15	Antiferromagnetic order induced by an applied magnetic field in a high-temperature superconductor. Nature, 2002, 415, 299-302.	13.7	478
16	Spin Waves and Electronic Interactions in La ₂ CuO ₄ . Physical Review Letters, 2001, 86, 5377-5380.	2.9	541
17	Spins in the Vortices of a High-Temperature Superconductor. Science, 2001, 291, 1759-1762.	6.0	314
18	Spin excitations and exchange couplings in the cuprate antiferromagnet La ₂ CuO ₄ . Physica B: Condensed Matter, 2000, 276-278, 592-593.	1.3	4

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19	The generation of intergranular strains in 309H stainless steel under uniaxial loading. <i>Acta Materialia</i> , 2000, 48, 1131-1140.	3.8	53
20	High-energy magnetic excitations and anomalous spin-wave damping in FeGe ₂ . <i>Journal of Physics Condensed Matter</i> , 2000, 12, 8487-8493.	0.7	8
21	Disorder to order transition in the magnetic and electronic properties of URh ₂ Ge ₂ . <i>Physical Review B</i> , 2000, 61, 8878-8887.	1.1	36
22	Transition to long-range magnetic order in the highly frustrated insulating pyrochlore antiferromagnet Gd ₂ Ti ₂ O ₇ . <i>Physical Review B</i> , 1999, 59, 14489-14498.	1.1	174
23	Far-infrared vibrational mode in Cu _{1-x} MxGe _{1-y} SiyO ₃ (M=Zn,Cd,Ni). <i>Physical Review B</i> , 1999, 59, 1157-1161.	1.1	6
24	Characterisation of spin-waves in copper(II) deuterioformate tetradeuterate: a square S=1/2 Heisenberg antiferromagnet. <i>Solid State Communications</i> , 1999, 112, 561-564.	0.9	11
25	Intergranular stresses in Zircaloy-2 with rod texture. <i>Acta Materialia</i> , 1999, 47, 373-383.	3.8	94
26	Neutron scattering and the search for mechanisms of superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 317-318, 9-17.	0.6	4
27	Spin gap and magnetic coherence in a clean high-temperature superconductor. <i>Nature</i> , 1999, 400, 43-46.	13.7	114
28	In situ generation of intergranular strains in an Al7050 alloy. <i>Acta Materialia</i> , 1998, 46, 1503-1518.	3.8	103
29	Magnetic correlations in deuterium jarosite, a model S = 5/2 Kagomé antiferromagnet. <i>Europhysics Letters</i> , 1998, 42, 325-330.	0.7	87
30	The development of intergranular strains in a high-strength steel. <i>Journal of Strain Analysis for Engineering Design</i> , 1998, 33, 373-383.	1.0	44
31	Magnetic and specific heat studies of the cation-ordered pyrochlore NH ₄ CoAlF ₆ . <i>Physical Review B</i> , 1998, 58, 5550-5553.	1.1	13
32	The magnetic phase diagram and transport properties of. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 1347-1355.	0.7	9
33	Antiferromagnetism, structural properties, and electronic transport of BaCo _{0.9} Ni _{0.1} S _{1.8} . <i>Physical Review B</i> , 1997, 55, 12375-12381.	1.1	12
34	Spin Glass Behavior in URh ₂ Ge ₂ . <i>Physical Review Letters</i> , 1997, 78, 354-357.	2.9	142
35	Nearly Singular Magnetic Fluctuations in the Normal State of a High-Tc Cuprate Superconductor. <i>Science</i> , 1997, 278, 1432-1435.	6.0	273
36	Spin glass behaviour in URh ₂ Ge ₂ . <i>Physica B: Condensed Matter</i> , 1997, 230-232, 105-107.	1.3	5

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37	Thermodynamic study of the magnetic phase transition in UNi4B. Physica B: Condensed Matter, 1997, 230-232, 108-110.	1.3	5
38	Spin dynamics of the Kondo insulator CeNiSn approaching the metallic phase. Physica B: Condensed Matter, 1997, 234-236, 861-863.	1.3	7
39	Magnetic coherence in the transition metal oxides. Physica B: Condensed Matter, 1997, 237-238, 30-35.	1.3	1
40	Itinerant antiferromagnetism in FeGe2. Physica B: Condensed Matter, 1997, 237-238, 449-452.	1.3	11
41	The RITA spectrometer at RisÅ, Å€” design considerations and recent results. Physica B: Condensed Matter, 1997, 241-243, 50-55.	1.3	9
42	Magnetic fluctuations in UNi4B. Physica B: Condensed Matter, 1997, 241-243, 669-671.	1.3	2
43	Absolute measurements of the high-frequency magnetic dynamics in High-Tc superconductors. Physica B: Condensed Matter, 1997, 241-243, 765-772.	1.3	17
44	Magnetic ordering in Tb3Sb4Au3. Physica B: Condensed Matter, 1997, 241-243, 786-788.	1.3	0
45	Texture and residual strain in an Al7050 billet. Physica B: Condensed Matter, 1997, 241-243, 1267-1269.	1.3	3
46	High field study of the magnetic phase transition of URu2Si2. Physica B: Condensed Matter, 1997, 230-232, 74-76.	1.3	19
47	Magnetic coherence in the superconducting and normal states of La2 $\hat{\sim}$ xSrxCuO4. Physica C: Superconductivity and Its Applications, 1997, 282-287, 231.	0.6	1
48	New Magnetic Coherence Effect in Superconducting La2 $\hat{\sim}$ xSrxCuO4. Physical Review Letters, 1996, 77, 1604-1607.	2.9	98
49	Comparison of the High-Frequency Magnetic Fluctuations in Insulating and Superconducting La2 $\hat{\sim}$ xSrxCuO4. Physical Review Letters, 1996, 76, 1344-1347.	2.9	152
50	Transport properties of Nd1 $\hat{\sim}$ x Sr x MnO3 (1/4 $\hat{\sim}$ x $\hat{\sim}$ 1/2). European Physical Journal D, 1996, 46, 2017-2018.	0.4	2
51	High energy spin excitation of a high-Tc superconductor La1.85Sr0.15CuO4. European Physical Journal D, 1996, 46, 1147-1148.	0.4	3
52	Magnetic structure and phase diagram of heavy fermion UPd2Ga3. Physica B: Condensed Matter, 1996, 223-224, 204-207.	1.3	1
53	UNi4B: ordered and disordered uranium moments. Physica B: Condensed Matter, 1996, 223-224, 237-240.	1.3	2
54	Gap formation and magnetic ordering in URu2Si2 probed by high-field magnetoresistance. Physical Review B, 1996, 53, R6014-R6017.	1.1	65

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55	Influence of a magnetic field on the antiferromagnetic order in UPt ₃ . Physical Review B, 1996, 54, R6873-R6876.	1.1	25
56	Magnetic fluctuations in heavy-fermion metals. Physica B: Condensed Matter, 1995, 213-214, 11-15.	1.3	10
57	Recent neutron-scattering results on high-temperature superconductors. Physica B: Condensed Matter, 1995, 213-214, 43-47.	1.3	13
58	Magnetic fluctuations in lamellar copper oxides. Journal of Physics and Chemistry of Solids, 1995, 56, 1911.	1.9	3
59	Magnetic behavior of the heavy-fermion system UPd ₂ Ga ₃ . Physical Review B, 1995, 52, 12784-12789.	1.1	13
60	Non-trivial magnetic order in URu ₂ Si ₂ ?. Journal of Physics Condensed Matter, 1995, 7, 5089-5096.	0.7	37
61	RITA: The reinvented triple axis spectrometer. Canadian Journal of Physics, 1995, 73, 697-702.	0.4	27
62	Small angle neutron scattering study of the magnetic flux-line lattice in single crystal 2H-NbSe ₂ . Physical Review Letters, 1994, 72, 278-281.	2.9	42
63	Spin wave collapse and incommensurate fluctuations in URu ₂ Si ₂ . Physica B: Condensed Matter, 1994, 199-200, 95-97.	1.3	15
64	Magnetic fluctuations and the superconducting transition in the heavy-fermion material UPd ₂ Al ₃ . Physica B: Condensed Matter, 1994, 199-200, 151-153.	1.3	33
65	Magnetic fluctuations in superconducting La _{2-x} Sr _x CuO ₄ . Physica B: Condensed Matter, 1994, 199-200, 284-287.	1.3	18
66	From insulator to metal with hot and cold neutrons. Physica B: Condensed Matter, 1993, 192, 103-108.	1.3	9
67	Polarized neutron determination of the magnetic excitations in YBa ₂ Cu ₃ O ₇ . Physical Review Letters, 1993, 70, 3490-3493.	2.9	436
68	Low energy excitations in superconducting La _{1.86} Sr _{0.14} CuO ₄ . Physical Review Letters, 1993, 71, 919-922.	2.9	199
69	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.	0.7	19
70	Spin gap and antiferromagnetic correlations in the Kondo insulator CeNiSn. Physical Review Letters, 1992, 69, 490-493.	2.9	178
71	Spin freezing in the geometrically frustrated pyrochlore antiferromagnet Tb ₂ Mo ₂ O ₇ . Physical Review Letters, 1992, 69, 3244-3247.	2.9	182
72	Magnetic dynamics of superconducting La _{1.86} Sr _{0.14} CuO ₄ . Physical Review Letters, 1992, 68, 1414-1417.	2.9	286

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73	Tetracritical dynamics of CsMnBr ₃ . Journal of Magnetism and Magnetic Materials, 1992, 104-107, 197-198.	1.0	15
74	Dispersion of spin-waves in the S=1/2 square Heisenberg antiferromagnet Cu(DCO ₂) ₂ ·4D ₂ O. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 557-558.	1.0	9
75	Long range antiferromagnetic order and its coexistence with superconductivity in URu ₂ Si ₂ . Journal of Magnetism and Magnetic Materials, 1992, 108, 77-78.	1.0	7
76	Incommensurate magnetic fluctuations in La ^{2-x} Sr _x CuO ₄ . Physical Review Letters, 1991, 67, 1791-1794.	2.9	534
77	Magnetic properties of RbVF ₄ . Journal of Physics Condensed Matter, 1991, 3, 2953-2961.	0.7	1
78	Spin excitations and the electronic specific heat of URu ₂ Si ₂ . Physical Review B, 1991, 43, 11471-11473.	1.1	23
79	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.	1.1	62
80	Magnetic excitations in the heavy-fermion superconductor URu ₂ Si ₂ . Physical Review B, 1991, 43, 12809-12822.	1.1	276
81	Antiferromagnetism and superconductivity in URu ₂ Si ₂ . Physica B: Condensed Matter, 1990, 163, 45-48.	1.3	22
82	Monte Carlo simulations of CsMnBr ₃ . Journal of Applied Physics, 1990, 67, 5421-5423.	1.1	13
83	X-ray magnetic scattering in antiferromagnetic URu ₂ Si ₂ . Physical Review Letters, 1990, 65, 3185-3188.	2.9	131
84	Neutron-scattering measurements of long-range antiferromagnetic order in URu ₂ Si ₂ . Physical Review Letters, 1990, 65, 3189-3192.	2.9	113
85	Magnetic excitations in CePd ₂ Si ₂ . Journal of Applied Physics, 1990, 67, 5203-5205.	1.1	13
86	Magnetic susceptibility of CsMnBr ₃ near the tetracritical point. Physical Review B, 1990, 42, 2715-2717.	1.1	10
87	Magnetic ordering in a dilute triangular XY antiferromagnet. Journal of Applied Physics, 1990, 67, 5424-5426.	1.1	7
88	Spin fluctuations in superconducting YBa ₂ Cu ₃ O _{6.5} . Physical Review Letters, 1990, 64, 800-803.	2.9	94
89	Tetracritical behavior of CsMnBr ₃ . Physical Review Letters, 1989, 62, 1380-1383.	2.9	109
90	Neutron scattering measurements of critical exponents in CsMnBr ₃ : A Z ₂ antiferromagnet. Physical Review B, 1989, 39, 586-590.	1.1	84

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91	Critical scattering from paramagnetic CsMnBr ₃ : An XY antiferromagnet with chiral degeneracy. <i>Physica B: Condensed Matter</i> , 1989, 156-157, 244-246.	1.3	5
92	Experimental confirmation of the existence of a new universality class for stacked triangular lattices. <i>Journal of Physics C: Solid State Physics</i> , 1987, 20, L945-L948.	1.5	34