

J R Stewart

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

1,934
citations

236925

25
h-index

289244

40
g-index

101
all docs

101
docs citations

101
times ranked

2059
citing authors

#	ARTICLE	IF	CITATIONS
1	Disordered materials studied using neutron polarization analysis on the multi-detector spectrometer, D7. Journal of Applied Crystallography, 2009, 42, 69-84.	4.5	139
2	Phase transitions, partial disorder and multi-kstructures in Gd ₂ Ti ₂ O ₇ . Journal of Physics Condensed Matter, 2004, 16, L321-L326.	1.8	130
3	Scale-Free Antiferromagnetic Fluctuations in the Antiferromagnet Herbertsmithite. Physical Review Letters, 2009, 103, 237201.	7.8	121
4	Long-range ordering of reduced magnetic moments in the spin-gap compound CeOs seen via muon spin relaxation and neutron scattering. Physical Review B, 2010, 82, .	3.2	80
5	Anisotropic spin fluctuations in detwinned FeSe. Nature Materials, 2019, 18, 709-716.	27.5	60
6	Dynamic Confinement Effects in Polymer Blends. A Quasielastic Neutron Scattering Study of the Dynamics of Poly(ethylene oxide) in a Blend with Poly(vinyl acetate). Macromolecules, 2006, 39, 3007-3018.	4.8	56
7	spinvert: a program for refinement of paramagnetic diffuse scattering data. Journal of Physics Condensed Matter, 2013, 25, 454220.	1.8	55
8	Neutron-scattering studies of the geometrically frustrated spinel LiMn ₂ O ₄ . Physical Review B, 2002, 65, .	3.2	47
9	Non-Fermi-Liquid Behavior of Electron-Spin Fluctuations in an Elemental Paramagnet. Physical Review Letters, 2002, 89, 186403.	7.8	43
10	Emergent Frustration in Co-doped Mn. Physical Review Letters, 2013, 110, 267207.	7.8	42
11	Upgrade to the MAPS neutron time-of-flight chopper spectrometer. Review of Scientific Instruments, 2019, 90, 035110.	1.3	37
12	Large solid-angle polarisation analysis at thermal neutron wavelengths using a ³ He spin filter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 485, 551-570.	1.6	36
13	Statics and dynamics of the highly correlated spin ice Ho ₂ Ti ₂ O ₇ . Physical Review Letters, 2011, 106, 077202.	3.2	34
14	Neutron scattering study of the spin ice Ho ₂ Ti ₂ O ₇ . Physical Review Letters, 2011, 106, 077202.	3.2	34
15	Neutron scattering study of the spin ice Ho ₂ Ti ₂ O ₇ . Physical Review Letters, 2011, 106, 077202.		

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19	relations in $\text{CaMn}_3\text{CoS}_4$. <i>Physical Review B</i> , 2008, 78, .	3.2	31
20	Magnetic structure of greigite (Fe_3S_4) probed by neutron powder diffraction and polarized neutron diffraction. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	29
21	Collective dynamics in the Heisenberg pyrochlore antiferromagnet $\text{Gd}_2\text{Sn}_2\text{O}_7$. <i>Physical Review B</i> , 2008, 78, .	3.2	27
22	^3He polarization for ISIS TS2 phase I instruments. <i>Physica B: Condensed Matter</i> , 2011, 406, 2429-2432.	2.7	27
23	Spin-orbit transitions in LaO_6 and LaO_8 . <i>Physical Review B</i> , 2015, 92, .	3.2	26
24	Coherent structural relaxation of water from meso- to intermolecular scales measured using neutron spectroscopy with polarization analysis. <i>Physical Review Research</i> , 2020, 2, .	3.6	26
25	Magnetic diffuse scattering in disordered systems studied by neutron polarization analysis (invited). <i>Journal of Applied Physics</i> , 2000, 87, 5425-5430.	2.5	25
26	Role of disorder and competing ferromagnetic and antiferromagnetic interactions in the magnetic, electrical, and dynamic properties of $\text{La}_{0.7}\text{Pb}_{0.3}(\text{Mn}_{1-x}\text{Fex})\text{O}_{3.5}$ manganites. <i>Physical Review B</i> , 2006, 73, .	3.6	25
27	Generalization of the classical xyz-polarization analysis technique to out-of-plane and inelastic scattering. <i>Review of Scientific Instruments</i> , 2013, 84, 093901.	1.3	25
28	Pair correlations, short-range order, and dispersive excitations in the quasi-kagome quantum magnet volborthite. <i>Physical Review B</i> , 2011, 84, .	3.2	24
29	Spin excitations in metallic kagome lattice FeSn and CoSn . <i>Communications Physics</i> , 2021, 4, .	5.3	23
30	High-resolution neutron scattering study of $\text{Tb}_2\text{Mg}_{12}$. A geometrically frustrated spin glass. <i>Physical Review B</i> , 2010, 81, .	3.2	22
31	Y_5Mg_{12} . <i>Physical Review B</i> , 2010, 81, .	3.2	22
32	Neutron Spin-Echo Investigation of Slow Spin Dynamics in Kagomé-Bilayer Frustrated Magnets as Evidence for Phonon Assisted Relaxation in $\text{SrCr}_9\text{Ga}_{12}\text{O}_{19}$. <i>Physical Review Letters</i> , 2006, 97, 047203.	7.8	21
33	Magnetic excitations in $\text{EuCu}_2(\text{SixGe}_{1-x})_2$: from mixed valence towards magnetism. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 375601.	1.8	21
34	Low-energy spin dynamics of the $s=1/2$ kagome system herbertsmithite. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 106001.	1.8	21
35	Magnonic Weyl states in $\text{Cu}_2\text{Mn}_3\text{Zn}$. <i>Physical Review Research</i> , 2020, 2, .	3.2	21
36	Optimised adiabatic fast passage spin flipping for ^3He neutron spin filters. <i>Physica B: Condensed Matter</i> , 2011, 406, 2436-2438.	2.7	19

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55	Magnetism of two-dimensional honeycomb layered $\text{Na}_2\text{Mn}_6\text{O}_{11}$ driven by intermediate Na-layer crystal structure. <i>Physical Review B</i> , 2022, 105, .	3.2	11
56	Diffuse magnetic scattering of polarised neutrons. <i>Physica B: Condensed Matter</i> , 1999, 267-268, 106-114.	2.7	10
57	Magnetic short-range order in Mn_2Co . <i>Journal of Physics Condensed Matter</i> , 2009, 21, 124216.	1.8	10
58	Slow and static spin correlations in $\text{Dy}_2\text{Ti}_2\text{O}_7$. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 164220.	1.8	10
59	Suppressed-moment 2-k order in the canonical frustrated antiferromagnet $\text{Gd}_2\text{Ti}_2\text{O}_7$. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	10
60	Toaderet Aal.Reply:. <i>Physical Review Letters</i> , 2006, 97, .	7.8	9
61	The magnetic structure of MnRu . <i>Journal of Physics Condensed Matter</i> , 2007, 19, 145291.	1.8	9
62	Polarization analysis on the LET cold neutron spectrometer using a ^3He spin-filter: first results. <i>Journal of Physics: Conference Series</i> , 2019, 1316, 012007.	0.4	9
63	Spin correlations in the dipolar pyrochlore antiferromagnet $\text{Gd}_2\text{Sn}_2\text{O}_7$. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 144001.	1.8	7
64	Low-temperature relaxation in kagome bilayer antiferromagnets. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 145254.	1.8	6
65	Neutron scattering and ^1H SR investigations of the low temperature state of LuCuGaO_4 . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 356002.	1.8	6
66	Magnetic properties of nano-scale hematite, Fe_2O_3 , studied by time-of-flight inelastic neutron spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 044709.	3.0	6
67	Magnetic ground state of Dy^{3+} in DyNiAl_4 . <i>AIP Advances</i> , 2017, 7, .	1.3	6
68	Polarized primary spectrometer on the LET instrument at ISIS. <i>Physica B: Condensed Matter</i> , 2018, 551, 476-479.	2.7	6
69	Temperature dependence of magnetic excitations in the frustrated antiferromagnetic spinel ZnMn_2O_4 . <i>Physical Review B</i> , 2018, 97, .		
70	Strong quantum fluctuations from competition between magnetic phases in a pyrochlore iridate. <i>Physical Review B</i> , 2020, 101, .	3.2	6
71	Magnetic ground states and spin dynamics of Mn_2Ru alloys. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 145288.	1.8	5
72	Direct evidence for anisotropic three-dimensional magnetic excitations in a hole-doped antiferromagnet. <i>Physical Review B</i> , 2020, 102, .	3.2	5

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73	Magnetic excitations in long-range stripe-ordered PrMn_2O_7 . Physical Review B, 2021, 103, .	2.2	5
74	A neutron polarisation analysis study of the spin-glass phase of $\text{Y}(\text{Al}_{1-x}\text{Fe}_x)_2$. Applied Physics A: Materials Science and Processing, 2002, 74, s689-s691.	2.3	4
75	Dynamics in $\hat{1}^3\text{-Fe}_2\text{O}_3$ nanoparticles studied by time-of-flight polarized neutron scattering. Physica B: Condensed Matter, 2004, 350, E217-E219.	2.7	4
76	Towards polarization analysis on a thermal time-of-flight spectrometer. Physica B: Condensed Matter, 2005, 356, 146-149.	2.7	4
77	Spin gaps in pseudo-one-dimensional RMn_4Al_8 compounds (R=Y, Ce and La). Journal of Magnetism and Magnetic Materials, 2007, 310, 1041-1043.	2.3	4
78	Transverse and longitudinal spin-fluctuations in INVAR $\text{Fe}_{0.65}\text{Ni}_{0.35}$. Journal of Physics Condensed Matter, 2019, 31, 025802.	1.8	4
79	Quenching of Long Range Order and the Mn^{3+} Ordered Moment in the Layered Antiferromagnet, BaSrLaMnO_4 . A Polarized Neutron Scattering Study. Inorganic Chemistry, 2019, 58, 4300-4309.	4.0	4
80	Magnetic structure and exchange interactions in the Heisenberg pyrochlore antiferromagnet $\text{Gd}_2\text{Pt}_2\text{O}_7$. Physical Review B, 2022, 105, .	3.2	4
81	A $\hat{1}^4\text{SR}$ study of anomalous rare-earth spin dynamics in $\text{RNi}_2\text{B}_2\text{C}$ (R = Er, Tb). Journal of Magnetism and Magnetic Materials, 1998, 177-181, 1111-1112.	2.3	3
82	Recent news on ILL polarised ^3He developments. Physica B: Condensed Matter, 2000, 276-278, 65-66.	2.7	3
83	Comment on "Magnetic structure of $\text{Gd}_2\text{Ti}_2\text{O}_7$ ". Physical Review B, 2012, 85, .	3.2	3
84	A $\hat{1}^4\text{SR}$ Study of Er Spin Dynamics in $(\text{Y}_{1-x}\text{Er}_x)\text{Ni}_2\text{B}_2\text{C}$ Superconductors. Hyperfine Interactions, 2001, 136/137, 313-319.	0.5	2
85			

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91	Neutron spin echo study of a random anisotropy magnet. Physica B: Condensed Matter, 1997, 234-236, 762-763.	2.7	1
92	Magnetic correlations in Nb _{1-y} Fe _{2+y} . Applied Physics A: Materials Science and Processing, 2002, 74, s862-s864.	2.3	1
93	The assets of crystal monochromator-Fermi chopper time-of-flight on continuous sources - potential for high efficiency PASTIS operation. Journal of Neutron Research, 2007, 15, 95-104.	1.1	1
94	Ring exchange in lanthanum cuprate. Journal of Magnetism and Magnetic Materials, 2007, 310, 1663-1665.	2.3	1
95	Phase Separation in the Heisenberg Spin System, Gd ₂ Ti ₂ O ₇ . , 2010, , .		1
96	Crystal field effects in the zig-zag chain compound SrTm ₂ O ₄ . Journal of Magnetism and Magnetic Materials, 2022, 551, 169020.	2.3	1
97	Magnetic fluctuations in paramagnetic Mn _{0.81} Ni _{0.19} . Physica B: Condensed Matter, 2006, 385-386, 381-384.	2.7	0
98	A zero-field SR study of glassy spin dynamics in -MnCu. Journal of Magnetism and Magnetic Materials, 2007, 310, 1520-1522.	2.3	0
99	Phonon-assisted relaxation in a frustrated antiferromagnet. Journal of Magnetism and Magnetic Materials, 2007, 310, 1325-1327.	2.3	0
100	A neutron polarization analysis study of moment correlations in (Dy _{0.4} Y _{0.6})T ₂ (T = Mn, Al). Journal of Physics Condensed Matter, 2011, 23, 164205.	1.8	0