

Tom Fennell

List of Publications by Year in descending order

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70
papers

3,350
citations

172457

29
h-index

138484

58
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72
all docs

72
docs citations

72
times ranked

2444
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable critical correlations in kagome ice. <i>Physical Review B</i> , 2022, 105, .	3.2	4
2	Experimental Observation of Magnetic Monopoles in Spin Ice. <i>Springer Series in Solid-state Sciences</i> , 2021, , 189-238.	0.3	0
3	Dispersion of neutron spin resonance mode in $\text{Ba}_{0.67}\text{K}_{0.33}\text{Fe}_2\text{As}_2$ *. <i>Chinese Physics B</i> , 2021, 30, 127402.	1.4	4
4	Magnetic-field control of magnetoelastic coupling in the rare-earth pyrochlore Tb_2O_7 . <i>Physical Review B</i> , 2021, 104, .	3.2	3
5	Changes in elastic moduli as evidence for quadrupolar ordering in the rare-earth frustrated magnet Tb_2O_7 . <i>Physical Review B</i> , 2020, 102, .	3.2	3
6	Fractional antiferromagnetic skyrmion lattice induced by anisotropic couplings. <i>Nature</i> , 2020, 586, 37-41.	27.8	117
7	Evolution of field-induced metastable phases in the Shastry-Sutherland lattice magnet TmB_4 . <i>Physical Review B</i> , 2020, 102, .	16.7	54
8	A quantum liquid of magnetic octupoles on the pyrochlore lattice. <i>Nature Physics</i> , 2020, 16, 546-552.	16.7	54
9	Magnetoelastic excitation spectrum in the rare-earth pyrochlore Tb_2O_7 . <i>Physical Review B</i> , 2019, 99, .	3.2	8
10	Multiphase competition in the quantum XY pyrochlore antiferromagnet CdYb_2O_7 : Zero and applied magnetic field study. <i>Physical Review B</i> , 2019, 100, .	3.2	15
11	Magnetic order and single-ion anisotropy in Tb_2O_7 . <i>Physical Review B</i> , 2019, 100, .	3.2	15
12	Multiple Coulomb phase in the fluoride pyrochlore CsNiCrF_6 . <i>Nature Physics</i> , 2019, 15, 60-66.	16.7	13
13	24-spin clusters in the mineral boleite KPb_2O_7 . <i>Physical Review B</i> , 2018, 97, .	3.2	14
14	Manifolds of magnetic ordered states and excitations in the almost Heisenberg pyrochlore antiferromagnet MgCr_2O_4 . <i>Physical Review B</i> , 2018, 97, .	3.2	14
15	Experimental signatures of emergent quantum electrodynamics in $\text{Pr}_2\text{Hf}_2\text{O}_7$. <i>Nature Physics</i> , 2018, 14, 711-715.	16.7	62
16	Dipolar Spin Ice States with a Fast Monopole Hopping Rate in CdEr_2O_7 .		

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19	Odd and Even Modes of Neutron Spin Resonance in the Bilayer Iron-Based Superconductor CaKFe ₄ As ₄ . Physical Review Letters, 2018, 120, 267003.	7.8	28
20	Pauling Entropy, Metastability, and Equilibrium in $\text{Dy}_2\text{Mn}_7\text{O}_{17}$. Physical Review Letters, 2018, 121, 067202.	7.8	27
21	Wavevector and energy resolution of the polarized diffuse scattering spectrometer D7. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 857, 24-30.	1.6	16
22	Phonon-mediated spin-flipping mechanism in the spin ices $\text{Dy}_2\text{Mn}_7\text{O}_{17}$ and $\text{Ho}_2\text{Mn}_7\text{O}_{17}$. Physical Review B, 2017, 95, .	3.2	15
23	Coulomb spin liquid in anion-disordered pyrochlore Tb ₂ Hf ₂ O ₇ . Nature Communications, 2017, 8, 892.	12.8	40
24	Probing photoinduced spin states in spin-crossover molecules with neutron scattering. Physical Review B, 2017, 95, .	3.2	8
25	Spiral spin-liquid and the emergence of a vortex-like state in MnSc ₂ S ₄ . Nature Physics, 2017, 13, 157-161.	16.7	88
26	Magnetic Excitations and Electronic Interactions in $\text{Sr}_2\text{Mn}_2\text{O}_7$. A Spin- O Candidate quantum spin ice in the pyrochlore $\text{Pr}_2\text{Mn}_2\text{O}_7$. Physical Review Letters, 2017, 118, 087201.	7.8	36
27	First-principles calculation and experimental investigation of lattice dynamics in the rare-earth pyrochlores $\text{R}_2\text{Ti}_2\text{O}_7$ (R=Tb, Dy, and Ho). Physical Review B, 2016, 94, .	3.2	52
28	Magnetodielectric detection of magnetic quadrupole order in Ba(TiO)Cu ₄ (PO ₄) ₄ with Cu ₄ O ₁₂ square cupolas. Nature Communications, 2016, 7, 13039.	12.8	37
29	Crystal-field parameters of the rare-earth pyrochlores $\text{R}_2\text{Ti}_2\text{O}_7$ (R=Tb, Dy, and Ho). Physical Review B, 2016, 94, .	3.2	50
30	Instabilities of spin-liquid states in a quantum kagome antiferromagnet. Physical Review B, 2016, 93, .	3.2	25
31	Sample independence of magnetoelastic excitations in the rare-earth pyrochlore $\text{Tb}_2\text{Mn}_7\text{O}_{17}$. First-principles calculation and experimental investigation of lattice dynamics in the rare-earth pyrochlores $\text{R}_2\text{Ti}_2\text{O}_7$ (R=Tb, Dy, and Ho). Physical Review B, 2016, 94, .	3.2	22
32	First-principles calculation and experimental investigation of lattice dynamics in the rare-earth pyrochlores $\text{R}_2\text{Ti}_2\text{O}_7$ (R=Tb, Dy, and Ho). Physical Review B, 2016, 94, .		

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37	Neutron scattering studies of spin ices and spin liquids. <i>Annale Th�matique De La Soci�t� Fran�saise De La Neutronique</i> , 2014, 13, 04001.	0.2	7
38	Ice rule correlations in stuffed spin ice. <i>New Journal of Physics</i> , 2013, 15, 013022.	2.9	8
39	Neutron scattering and μ SR investigations of the low temperature state of LuCuGaO_4 . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 356002.	1.8	6
40	Topological-Sector Fluctuations and Curie-Law Crossover in Spin Ice. <i>Physical Review X</i> , 2013, 3, .	8.9	42
41	Power-Law Spin Correlations in the Pyrochlore Antiferromagnet Tb_2O_7 . <i>Physical Review</i>	7.4	196
42	Coexistence of long- and short-range magnetic order in the frustrated magnet SrYbO_2 . <i>Physical Review</i>	3.2	34
43	Spangolite: ans= 1/2 maple leaf lattice antiferromagnet?. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 164201.	1.8	16
44	Magnetic properties of a frustrated lattice geometry. <i>Physical Review B</i> , 2010, 81, .	3.2	24
45	Spin dynamics in the hyperkagome compound Gd_3 . <i>Physical Review B</i> , 2010, 82, .	3.2	23
46	Electric field control of multiferroic domains in Ni_3 by x-ray polarization-enhanced topography. <i>Physical Review B</i> , 2010, 82, .	3.2	24
47	Neutron scattering and crystal field studies of the rare earth double perovskite $\text{Ba}_2\text{ErSbO}_6$. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 116007.	1.8	9
48	Consequence of Excess Configurational Entropy on Fragility: The Case of a Polymer-Oligomer Blend. <i>Physical Review Letters</i> , 2009, 103, 185702.	7.8	25
49	Measurement of the charge and current of magnetic monopoles in spin ice. <i>Nature</i> , 2009, 461, 956-959.	27.8	306
50	Magnetic Coulomb Phase in the Spin Ice $\text{Ho}_2\text{Ti}_2\text{O}_7$. <i>Science</i> , 2009, 326, 415-417.	12.6	485
51	Low temperature magnetic structure of the quasi 1-dimensional magnet Ni_2SiO_4 . <i>Journal of Physics: Conference Series</i> , 2009, 145, 012037.	0.4	2
52	Pair correlation function analysis of 5-(4-hexadecyloxyphenyl)-10,15,20-tri(4-pyridyl)porphyrin and 5-(4-methoxycarbonylphenyl)-10,15,20-tri(4-pyridyl)porphyrin. <i>Journal of Molecular Structure</i> , 2008, 875, 167-172.	3.6	6
53	Ab initio lattice dynamics calculation of vibrational density of states and Raman active modes of the olivine mineral Ni_2SiO_4 . <i>Journal of Physics Condensed Matter</i> , 2008, 20, 285203.	1.8	3
54	Static Magnetic Order in Tb_2O_7 Revealed by Muon Spin Relaxation with Exterior Muon Implantation. <i>Physical Review Letters</i> , 2008, 101, 237201.	7.8	14

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55	O_7 Spin Ice: A Test Case for Emergent Clusters in a Frustrated Magnet. Physical Review Letters, 2008, 101, 037204.	7.8	104
56	Molecular structure of 5,10,15,20-tetra(1-naphthyl)porphyrin and 5,10-di(4-hexadecyloxyphenyl)-15,20-di(4-pyridyl)porphyrin studied by high-energy X-ray diffraction. Chemical Physics Letters, 2007, 446, 36-42.	2.6	4
57	Pinch points and Kasteleyn transitions in kagome ice. Nature Physics, 2007, 3, 566-572.	16.7	91
58	Spin Ice: a Laboratory for Low Temperature Physics. AIP Conference Proceedings, 2006, , .	0.4	0
59	Neutron scattering studies of the spin ices $\text{Ho}_2\text{Ti}_2\text{O}_7$ and $\text{Dy}_2\text{Ti}_2\text{O}_7$ in applied magnetic field. Physical Review B, 2005, 72, .	3.2	67
60	Evidence for two distinct spin relaxation mechanisms in $\hat{\text{A}}\text{hot}\hat{\text{A}}$ spin ice $\text{Ho}_2\text{Ti}_2\text{O}_7$. Journal of Physics Condensed Matter, 2004, 16, S635-S642.	1.8	71
61	Thermodynamic properties of magnetically diluted dipolar spin ice. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E989-E991.	2.3	7
62	Neutron scattering investigation of the spin ice state in $\text{Dy}_2\text{Ti}_2\text{O}_7$. Physical Review B, 2004, 70, .	3.2	63
63	$\text{Er}_2\text{Ti}_2\text{O}_7$: Evidence of quantum order by disorder in a frustrated antiferromagnet. Physical Review B, 2003, 68, .	3.2	208
64	Dynamical crossover in $\hat{\text{A}}\text{hot}\hat{\text{A}}$ spin ice. Journal of Physics Condensed Matter, 2003, 15, L9-L15.	1.8	83
65	Universal fluctuations of the Danube water level: A link with turbulence, criticality and company growth. Europhysics Letters, 2002, 57, 310-314.	2.0	36
66	Field-induced partial order in the spin ice dysprosium titanate. Applied Physics A: Materials Science and Processing, 2002, 74, s889-s891.	2.3	31
67	Spin Correlations in $\text{Ho}_2\text{Ti}_2\text{O}_7$: A Dipolar Spin Ice System. Physical Review Letters, 2001, 87, 047205.	7.8	269
68	Structural and magnetic characterization of Ho_3SbO_7 and Dy_3SbO_7 . Canadian Journal of Physics, 2001, 79, 1415-1419.	1.1	27
69	Order in the Heisenberg pyrochlore: The magnetic structure of $\text{Gd}_2\text{Ti}_2\text{O}_7$. Physical Review B, 2001, 64, .	3.2	129
70	Structural and magnetic characterization of Ho_3SbO_7 and Dy_3SbO_7 . Canadian Journal of Physics, 2001, 79, 1415-1419.	1.1	0