

Helen C Walker

List of Publications by Year in descending order

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101
papers

2,928
citations

147801

31
h-index

182427

51
g-index

102
all docs

102
docs citations

102
times ranked

3734
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for a spinon Fermi surface in a triangular-lattice quantum-spin-liquid candidate. Nature, 2016, 540, 559-562.	27.8	259
2	Magnetic ground state of FeSe. Nature Communications, 2016, 7, 12182.	12.8	158
3	Magnetic structure and magnon dynamics of the quasi-two-dimensional antiferromagnet FePS_3 . Physical Review B, 2016, 94, .	3.2	119
4	Robustness of Kagome Antiferromagnetic Order and the Spinon Fermi Surface in NaYbS_2 : A planar spin-1/2 antiferromagnet. Physical Review Letters, 2018, 120, 187201.	7.8	107
5	Gapless spin-liquid state in the structurally disorder-free triangular antiferromagnet NaYbO_2 . Physical Review B, 2019, 100, .	3.2	96
6	Role of intrinsic disorder in the structural phase transition of magnetoelectric EuTiO_3 . Physical Review B, 2012, 85, .	1.8	86
7	Locking of iridium magnetic moments to the correlated rotation of oxygen octahedra in Sr_2IrO_4 revealed by x-ray resonant scattering. Journal of Physics Condensed Matter, 2013, 25, 422202.	12.6	85
8	Femtosecond Magnetically Induced Lattice Distortions in Multiferroic TbMnO_3 . Science, 2011, 333, 1273-1276.	12.8	81
9	Spin-liquid-like state in a spin-1/2 square-lattice antiferromagnet perovskite induced by d^{10}d^0 cation mixing. Nature Communications, 2018, 9, 1085.	7.8	77
10	Hopping Time Scales and the Phonon-Liquid Electron-Crystal Picture in Thermoelectric Copper Selenide. Physical Review Letters, 2017, 118, 145901.	12.6	76
11	Low thermal conductivity in a modular inorganic material with bonding anisotropy and mismatch. Science, 2021, 373, 1017-1022.	3.2	71
12	Antiferromagnetic Order and Domains in Sr_2IrO_4 . Physical Review Letters, 2009, 103, 207602.	7.8	57
13	Nature of the Magnetic Order and Origin of Induced Ferroelectricity in TbMnO_3 . Physical Review Letters, 2009, 103, 207602.	12.8	49
14	Fractionalized excitations in the partially magnetized spin liquid candidate YbMgGaO_4 . Nature Communications, 2018, 9, 4138.	3.2	46
15	EuTiO_3 magnetic structure studied by neutron powder diffraction and resonant x-ray scattering. Physical Review B, 2012, 86, .	5.2	45
16	Magnetic excitations in non-collinear antiferromagnetic Weyl semimetal Mn_3Sn . Npj Quantum Materials, 2018, 3, .	7.4	43
17	The effect of particle size, morphology and support on the formation of palladium hydride in commercial catalysts. Chemical Science, 2019, 10, 480-489.		

#	ARTICLE	IF	CITATIONS
19	Circularly Polarized X Rays as a Probe of Noncollinear Magnetic Order in Multiferroic TbMnO_3 . Physical Review Letters, 2009, 102, 237205.	7.8	42
20	Determination of the Antiferroquadrupolar Order Parameters in UPd3. Physical Review Letters, 2006, 97, 137203.	7.8	41
21	On the magnetic structure of $\text{Sr}_3\text{Ir}_2\text{O}_7$: an x-ray resonant scattering study. Journal of Physics Condensed Matter, 2012, 24, 312202.	1.8	41
22	Crystal field states of the pyrochlore spin liquid Tb_2O_7 . Physical Review B, 2015, 91, 114407.	3.2	41
23	Importance of X and Y in $\text{Sr}_2\text{Ir}_2\text{O}_7$ by magnetic critical scattering experiments. Physical Review B, 2015, 92, 014407.	3.2	41
24	Coulomb spin liquid in anion-disordered pyrochlore $\text{Tb}_2\text{Hf}_2\text{O}_7$. Nature Communications, 2017, 8, 892.	12.8	40
25	Order-by-disorder from bond-dependent exchange and intensity signature of nodal quasiparticles in a honeycomb cobaltate. Nature Communications, 2021, 12, 3936.	12.8	38
26	Tuning the square-lattice antiferromagnet S_2 .		

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37	Spin wave excitations in the tetragonal double perovskite Sr_2CuWO_6 . Physical Review B, 2016, 94, .	3.2	24
38	Spin Waves in Detwinned BaFe_2As_2 . Physical Review Letters, 2018, 121, 067002.	7.8	23
39	Exchange Interactions Mediated by Nonmagnetic Cations in Double Perovskites. Physical Review Letters, 2020, 124, 077202.	7.8	23
40	Observation of two spin gap energies in the filled skutterudite compound $\text{CeOs}_4\text{Sb}_{12}$. Physical Review B, 2007, 75, .	3.2	21
41	Spin resonance in the superconducting state of LiFeOFeODFeSe . Physical Review B, 2016, 94, .	3.2	21
42	REXS contribution to electronic ordering investigation in solids. European Physical Journal: Special Topics, 2012, 208, 89-98.	2.6	19
43	Magnetic excitations in the bulk multiferroic two-dimensional triangular lattice antiferromagnet LiCu_2O_2 . Physical Review B, 2018, 98, .	3.2	18
44	Magnon-polaron excitations in the noncollinear antiferromagnet Mn_3Ge . Physical Review B, 2019, 99, .	3.2	18
45	Ordering of localized electronic states in multiferroic TbMnO_3 : a soft x-ray resonant scattering study. Journal of Physics Condensed Matter, 2008, 20, 422205.	1.8	17
46	Ho and Fe magnetic ordering in multiferroic HoFe_3BO_7 . Physical Review B, 2012, 86, .	3.2	17
47	Long-range magnetic order in the $S=1/2$ triangular lattice antiferromagnet KCeS_2 . SciPost Physics, 2020, 9, .	4.9	16
48	Bulk properties and electronic structure of PuFeAsO . Physical Review B, 2012, 86, .	3.2	15
49	Diamagnetic d-Orbitals Drive Magnetic Structure Selection in the Double Perovskite $\text{Ba}_2\text{MnTeO}_6$. Chemistry of Materials, 2020, 32, 7070-7079.	6.7	15
50	X-ray resonant scattering determination of the antiferroquadrupolar ordering in UPd_3 at low temperatures. Journal of Physics Condensed Matter, 2008, 20, 395221.	1.8	14
51	Evidence for biquadratic exchange in the quasi-two-dimensional antiferromagnet FePS_3 . Journal of Applied Physics, 2020, 127, .	2.5	14
52	Understanding the quadrupolar structures of hematite Fe_2O_3 . Journal of Magnetism and Magnetic Materials, 2007, 310, 718-722.	2.3	13
53	Crystal properties of hematite Fe_2O_3 . Journal of Magnetism and Magnetic Materials, 2007, 310, 718-722.	3.2	13
54	Anharmonic Magnon Excitations in Noncollinear and Charge-Ordered RbFeF_6 studied by neutron diffraction using F_6 . Physical Review Letters, 2018, 121, 087201.	7.8	13

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55	<p>Magnetic structure of DyMnO_2 determined by resonant x-ray scattering. Physical Review Letters, 2010, 105, 157201.</p> <p>Anomalous Metamagnetism in the Low Carrier Density Kondo Lattice YbRhO_5 determined by resonant x-ray scattering. Physical Review X, 2018, 8, 011046.</p>	3.2	12
56	<p>Large easy-axis anisotropy in the one-dimensional magnet BaMoO_4. Physical Review B, 2010, 82, 014411.</p> <p>Magnetic and electrical properties of $\text{dHCP-Np}_3\text{Pd}$. Physical Review B, 2018, 98, 014411.</p>	8.9	12
57	<p>Magnetic and electrical properties of $\text{dHCP-Np}_3\text{Pd}$. Physical Review B, 2018, 98, 014411.</p>		
58	<p>Large easy-axis anisotropy in the one-dimensional magnet BaMoO_4. Physical Review B, 2010, 82, 014411.</p>		

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73	Absence of superconductivity in fluorine-doped neptunium pnictide NpFeAsO. Journal of Physics Condensed Matter, 2015, 27, 325702.	1.8	7
74	Plaquette instability competing with bicollinear ground state in detwinned FeTe. Physical Review B, 2019, 100, .	3.2	7
75	Frustration model and spin excitations in the helimagnet FeP. Physical Review B, 2022, 105, .	3.2	7
76	Study of non-Fermi-liquid behaviour near the ferromagnetic quantum critical point in CePd _{0.15} Rh _{0.85} . Journal of Magnetism and Magnetic Materials, 2007, 310, 858-860.	2.3	6
77	5f delocalization-induced suppression of quadrupolar order in U(Pd _{1-x} Ptx) ₃ . Physical Review B, 2011, 84, .	3.2	6
78	Crystal-field states and defect levels in candidate quantum spin ice CeO_7 . Physical Review Materials, 2022, 6, .	2.4	6
79	X-ray resonant scattering study of the magnetic phase diagram of multiferroic TbMnO ₃ . Physica B: Condensed Matter, 2009, 404, 3264-3266.	2.7	5
80	Long-range antiferromagnetic order of formally nonmagnetic Eu ³⁺ and Van Vleck ions observed in multiferroic Eu _{1-x} YxMnO ₃ . Physical Review B, 2015, 91, .	3.2	5
81	Coexistence of magnetic fluctuations and long-range order in the one-dimensional zigzag chain materials BaDy_2O_7 . Physical Review B, 2018, 98, .	3.2	5
82	Multiphase competition in the quantum XY pyrochlore antiferromagnet CdYb_2O_7 : Zero and applied magnetic field study. Physical Review B, 2019, 100, .	3.2	5
83	Weaker nematic phase connected to the first order antiferromagnetic phase transition in SrFe_2O_7 compared to BaFe_2O_7 . Physical Review B, 2019, 99, .	3.2	5
84	Field-tuned quantum effects in a triangular-lattice Ising magnet. Science Bulletin, 2022, 67, 38-44.	9.0	5
85	Neutron Scattering Studies of the Breathing Pyrochlore Antiferromagnet $\text{LiGaCr}_4\text{O}_8$. From One- to Two-Magnon Excitations in the $\text{LiGaCr}_4\text{O}_8$ Magnet.	7.8	5
86	Randomness and frustration in a square-lattice Heisenberg antiferromagnet. Physical Review B, 2022, 105, .	3.2	4
87	Magnetic susceptibility of DHCP. Physica B: Condensed Matter, 2005, 359-361, 1156-1158.	2.7	4
88	EuFe ₂ As ₂ : Magnetic Structure and Local Charge Distribution Anisotropies as Seen by Resonant X-ray Scattering. Journal of Superconductivity and Novel Magnetism, 2011, 24, 705-709.	1.8	4
89	Lattice dynamics in the double-helix antiferromagnet FeP. Physical Review Research, 2020, 2, .	3.6	4
90	Randomness and frustration in a square-lattice Heisenberg antiferromagnet. Physical Review B, 2022, 105, .	3.2	4

#	ARTICLE	IF	CITATIONS
91	Inelastic neutron scattering and heat capacity studies of ferromagnetic PrInNi ₄ . Physica B: Condensed Matter, 2006, 385-386, 41-43.	2.7	3
92	Heat capacity studies of the system. Physica B: Condensed Matter, 2006, 378-380, 981-982.	2.7	3
93	Photoelectron spectroscopy of NpPd ₃ and PuPd ₃ . Journal of Physics Condensed Matter, 2008, 20, 275220.	1.8	3
94	Measuring radioactive powder samples on the high-resolution powder diffraction beamline at the European Synchrotron Radiation Facility. Journal of Applied Crystallography, 2013, 46, 567-569.	4.5	3
95	A new route to quantum criticality in (U,Np). Journal of Magnetism and Magnetic Materials, 2007, 310, 751-753.	2.3	2
96	²³⁷ Np Mössbauer effect study on NpFeAsO. Journal of Physics Condensed Matter, 2014, 26, 156002.	1.8	2
97	Magnetic, electrical, and thermodynamic properties of NpIr: Ambient and high-pressure measurements, and electronic structure calculations. Physical Review B, 2015, 91, .	3.2	2
98	Critical fluctuations in the spin-orbit Mott insulator Sr ₃ Ir ₂ O ₇ . Journal of Physics Condensed Matter, 2019, 31, 185803.	1.8	2
99	Magnetic correlations in the triangular antiferromagnet FeGa ₂ S ₄ . Physical Review B, 2021, 104, .	3.2	2
100	Quadrupolar and Magnetic Ordering in (U,Np)Pd ₃ . Journal of the Physical Society of Japan, 2006, 75, 20-23.	1.6	1
101	Synthesis and characterization of large single crystals of NpPd ₃ by flux method. Journal of Crystal Growth, 2011, 320, 52-54.	1.5	1