

# Stuart Calder

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

3,038  
citations

172386

29  
h-index

182361

51  
g-index

108  
all docs

108  
docs citations

108  
times ranked

4143  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the charge and current of magnetic monopoles in spin ice. Nature, 2009, 461, 956-959.	13.7	306
2	Ferromagnetism Near Room Temperature in the Cleavable van der Waals Crystal $\text{Fe}_5\text{GeTe}_2$ . ACS Nano, 2019, 13, 4436-4442.	7.3	266
3	Magnetic structure and phase stability of the van der Waals bonded ferromagnet $\text{Fe}_3\text{Te}_2$ . Physical Review B, 2016, 93, .	2.9	115
4	Magnetically Driven Metal-Insulator Transition in $\text{NaOsO}_3$ . Physical Review Letters, 2012, 108, 257209.	2.9	115
5	Long-Range Antiferromagnetic Order in a Rocksalt High Entropy Oxide. Chemistry of Materials, 2019, 31, 3705-3711.	3.2	112
6	A suite-level review of the neutron powder diffraction instruments at Oak Ridge National Laboratory. Review of Scientific Instruments, 2018, 89, 092701.	0.6	90
7	Atomically Layered and Ordered Rare-Earth <i>i</i> -MAX Phases: A New Class of Magnetic Quaternary Compounds. Chemistry of Materials, 2019, 31, 2476-2485.	3.2	89
8	Magnetism and electronic structure of $\text{LaZn}_2\text{O}_6$ and $\text{La}_6\text{Mn}_6\text{O}_{12}$ . Physical Review B, 2011, 84, .	1.1	80
9	Spin glass and semiconducting behavior in one-dimensional $\text{BaFe}_2\text{Se}_3$ crystals. Physical Review B, 2011, 84, .	1.1	58
10	Magnetic order and electronic structure of the $\text{Sr}_5\text{Mn}_2\text{O}_{15}$ perovskite. Physical Review B, 2015, 91, .	1.1	58
11	Alluaudite $\text{Na}_2\text{Co}_2\text{Fe}(\text{PO}_4)_3$ as an electroactive material for sodium ion batteries. Dalton Transactions, 2015, 44, 7881-7886.	1.6	58
12	Spin-orbit-driven magnetic structure and excitation in the 5d pyrochlore $\text{Cd}_2\text{Os}_2\text{O}_7$ . Nature Communications, 2016, 7, 11651.	5.8	56
13	$\text{Ba}_2\text{NiO}_6$ : A Dirac Mott insulator with ferromagnetism near 100 K. Physical Review B, 2016, 94, .	1.1	55
14	Realization of Large Electric Polarization and Strong Magnetoelectric Coupling in $\text{BiMn}_3\text{Cr}_4\text{O}_{12}$ . Advanced Materials, 2017, 29, 1703435.	11.1	50
15	Stripe Antiferromagnetic Spin Fluctuations in $\text{SrCo}_2\text{As}_2$ . Physical Review Letters, 2013, 111, 157001.	2.9	47
16	Enhanced spin-phonon-electronic coupling in a 5d oxide. Nature Communications, 2015, 6, 8916.	5.8	45
17	Melting of Pb Charge Glass and Simultaneous Pb-Cr Charge Transfer in $\text{PbCrO}_3$ as the Origin of Volume Collapse. Journal of the American Chemical Society, 2015, 137, 12719-12728.	6.6	45
18	Magnetic structural change of $\text{Sr}_2\text{IrO}_4$ upon Mn doping. Physical Review B, 2012, 86, .	1.1	43



#	ARTICLE	IF	CITATIONS
37	One-quantum magnetism, Griffiths phase, and exchange bias in the mixed lanthanide $\text{Pr}_{1-x}\text{Er}_x\text{MnO}_3$ . Physical Review B, 2010, 81, .	1.1	23
38	Magnetic properties of $\text{Ba}_2\text{Mn}_2\text{O}_7$ in a frustrated lattice geometry. Physical Review B, 2010, 81, .	1.1	21
39	Magnonlike Dispersion of Spin Resonance in Ni-doped $\text{BaFe}_2\text{O}_7$ . Physical Review Letters, 2013, 110, 177002.	2.9	21
40	Magnetic excitations in the quasi-two-dimensional ferromagnet $\text{Fe}_3\text{O}_4$ measured with inelastic neutron scattering. Physical Review B, 2019, 99, .	2.0	3
41	Cluster Frustration in the Breathing Pyrochlore Magnet $\text{LiGaCr}_4\text{S}_8$ . Physical Review Letters, 2018, 120, 227203.	2.9	19
42	Magnetic structure determination of $\text{CaLiOsO}_6$ using neutron and x-ray scattering. Physical Review B, 2012, 86, .	1.1	19
43	Influence of interstitial Mn on magnetism in the room-temperature ferromagnet $\text{Mn}_2\text{O}_3$ . Physical Review B, 2015, 91, .	1.1	19
44	Dynamic Ferrimagnetic Order in a Highly Distorted Double Perovskite $\text{Y}_2\text{CoRuO}_6$ . Chemistry of Materials, 2018, 30, 7047-7054.	3.2	19
45	Evolution of the Magnetic Excitations in $\text{NaOsO}_3$ through its Metal-Insulator Transition. Physical Review Letters, 2018, 120, 227203.	2.9	19
46	Two-dimensional magnetic interactions in $\text{LaFeAsO}$ . Physical Review B, 2013, 87, .	1.1	18
47	$\text{BaFe}_4\text{O}_7$ and $\text{K}_{0.22}\text{Ba}_{0.89}\text{Fe}_4\text{O}_7$ : Canted Antiferromagnetic Diferrites with Exceptionally High Magnetic Ordering Temperatures. Chemistry of Materials, 2017, 29, 1683-1688.	3.2	17
48	Frustrated Heisenberg model within the stretched diamond lattice of $\text{LiYbO}_2$ . Physical Review B, 2021, 103, .	1.1	17
49	Observation of novel charge ordering and spin reorientation in perovskite oxide $\text{PbFeO}_3$ . Nature Communications, 2021, 12, 1917.	5.8	17
50	Structural and magnetic properties of the $\text{d}^5$ perovskites $\text{CaMnO}_3$ and $\text{SrMnO}_3$ . Physical Review B, 2010, 81, .	1.1	17



#	ARTICLE	IF	CITATIONS
73	Evolution of magnetic and orbital properties in the magnetically diluted $A$ -site spinel Physical Review B, 2018, 97, 040407.	1.1	9
74	Realization of the orbital-selective Mott state at the molecular level in $Ba_3O_9$ . Physical Review Materials, 2020, 4, 041101.	0.9	9
75	Magnetic structure of the antiferromagnetic Kondo lattice compounds $SrMn_2Fe_2O_{10}$ and $SrMn_2Co_2O_{10}$ . Journal of Physics Condensed Matter, 2015, 27, 245603.	1.1	8
76	Magnetic structure of the antiferromagnetic Kondo lattice compounds $CeRhAl_4Si_2$ and $CeIrAl_4Si_2$ . Journal of Physics Condensed Matter, 2015, 27, 245603.	0.7	8
77	Magnetic properties of ferrimagnetic $Mn_3Si_2Se_6$ . Journal of Magnetism and Magnetic Materials, 2020, 511, 166936.	1.0	8
78	Giant doping response of magnetic anisotropy in $MnTe$ . Physical Review Materials, 2022, 6, .	0.9	8
79	Magnetic ground states and magnetodielectric effect in $RCr(BO_3)_2$ ( $R=Y$ and $Ho$ ). Physical Review B, 2017, 95, .	1.1	7
80	Retention of a Paramagnetic Ground State at Low Temperatures in a Family of Structurally Related $U^{IV}$ Phosphates. Inorganic Chemistry, 2018, 57, 9286-9295.	1.9	7
81	Neutron scattering and $^{151}Sm$ NMR investigations of the low temperature state of $LuCuGaO_4$ . Journal of Physics Condensed Matter, 2013, 25, 356002.	0.7	6
82	Strong anisotropy within a Heisenberg model in the insulating state of $Sr_2J_2O_7$ . Physical Review B, 2016, 94, .	1.1	6
83	Pseudospin versus magnetic dipole moment ordering in the isosceles triangular lattice material $K_3Er_2Mo_2O_{12}$ . Physical Review B, 2020, 102, .	1.1	6
84	Absence of moment fragmentation in the mixed $B$ -site pyrochlore $Nd_2O_7$ . Physical Review B, 2021, 103, .	1.1	6
85	VERDI: VERSatile Diffractometer with wide-angle polarization analysis for magnetic structure studies in powders and single crystals. Review of Scientific Instruments, 2022, 93, .	0.6	6
86	Origins of large enhancement in electromechanical coupling for nonpolar directions in ferroelectric $BaTiO_3$ . Physical Review B, 2013, 88, .	1.1	5
87	Structural and magnetic phase transitions in $CeCu_6$ . Physical Review B, 2013, 88, .	1.1	5



#	ARTICLE	IF	CITATIONS
91	Dynamical ground state in the XY pyrochlore Yb <sub>2</sub> GaSbO <sub>7</sub> . Npj Quantum Materials, 2021, 6, .	1.8	4
92	Absence of long-range magnetic order in lithium-containing honeycombs in the Li <sup>+</sup> Cr <sup>3+</sup> Sb(Te)O phases. Journal of Physics Condensed Matter, 2021, 33, 295802.	0.7	4
93	Impact of Sn substitution on the structure and magnetism of $\text{Sr}_2\text{Cr}_2\text{O}_7$ . Physical Review Materials, 2018, 2, .	2.9	1
94	Crystal structure and partial Ising-like magnetic ordering of orthorhombic $\text{D}_2\text{Ti}_2\text{O}_5$ . Physical Review B, 2016, 94, .	1.1	3
95	Tuning the antiferromagnetic helical pitch length and nanoscale domain size in Fe <sub>3</sub> PO <sub>4</sub> O <sub>3</sub> by magnetic dilution. Physical Review B, 2017, 96, .	1.1	2
96	Influence of the Cubic Sublattice on Magnetic Coupling between the Tetrahedral Sites of Garnet. Inorganic Chemistry, 2021, 60, 8500-8506.	1.9	2
97	High-pressure phase of $\text{CrS}_2$ : A new quasi-one-dimensional itinerant magnet with competing interactions. Physical Review Materials, 2019, 3, .	0.9	2
98	Geometric and Magnetic Structures of K <sub>2</sub> Rel <sub>6</sub> as an Antiferromagnetic Insulator with Ferrimagnetic Spin-Canting Originated from Spin <sup>2</sup> -Orbit Coupling. Journal of Physical Chemistry C, 2019, 123, 1645-1652.	1.5	1
99	Magnetic phase diagram of (Mo <sub>2/3</sub> RE <sub>1/3</sub> ) <sub>2</sub> AlC, RE = Tb and Dy, studied by magnetization, specific heat, and neutron diffraction analysis. Journal of Physics Condensed Matter, 2022, 34, 215801.	0.7	1
100	Using as a magnetometer. Physica B: Condensed Matter, 2009, 404, 1017-1019.	1.3	0
101	Multiple superconducting states induced by pressure in $\text{Mo}_2\text{B}$ . Physical Review B, 2017, 95, .	1.1	1
102	Temperature-induced valence-state transition in double perovskite $\text{BaCo}_2\text{O}_9$ . Physical Review Materials, 2022, 6, .	0.9	0