

L M Debeer-Schmitt

List of Publications by Year in descending order

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54

papers

1,194

citations

394421

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docs citations

54

times ranked

1999

citing authors

#	ARTICLE	IF	CITATIONS
1	Squeezing the periodicity of NÃ©el-type magnetic modulations by enhanced Dzyaloshinskii-Moriya interaction of 4d electrons. <i>Npj Quantum Materials</i> , 2022, 7, .	5.2	9
2	Effects of the Order Parameter Anisotropy on the Vortex Lattice in UPt3. <i>Frontiers in Electronic Materials</i> , 2022, 2, .	3.1	1
3	Reversible ordering and disordering of the vortex lattice in UPt_{3-x} . <i>Physical Review B</i> , 2022, 105, .	3.2	2
4	drtsans: The data reduction toolkit for small-angle neutron scattering at Oak Ridge National Laboratory. <i>SoftwareX</i> , 2022, 19, 101101.	2.6	32
5	Effects of magnetic and non-magnetic doping on the vortex lattice in MgB ₂ . <i>Journal of Applied Crystallography</i> , 2022, 55, 693-701.	4.5	2
6	Annihilation and Control of Chiral Domain Walls with Magnetic Fields. <i>Nano Letters</i> , 2021, 21, 1205-1212.	9.1	15
7	Magnetoelastic coupling, negative thermal expansion, and two-dimensional magnetic excitations in FeAs. <i>Physical Review B</i> , 2021, 103, .	3.2	6
8	Effects of aluminum content on thermoelectric performance of Al CoCrFeNi high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160811.	5.5	12
9	A Unified User-Friendly Instrument Control and Data Acquisition System for the ORNL SANS Instrument Suite. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1216.	2.5	4
10	Domain Wall Patterning and Giant Response Functions in Ferrimagnetic Spinels. <i>Advanced Science</i> , 2021, 8, 2101402.	11.2	1
11	Topological energy barrier for skyrmion lattice formation in MnSi. <i>Physical Review B</i> , 2020, 102, .	3.2	4
12	Broken time-reversal symmetry in the topological superconductor UPt3. <i>Nature Physics</i> , 2020, 16, 531-535.	16.7	41
13	Canted antiferromagnetic order in the monoaxial chiral magnets V1/3TaS2 and V1/3NbS2. <i>Physical Review Materials</i> , 2020, 4, .	2.4	15
14	Magnetic-Field Control of Topological Electronic Response near Room Temperature in Correlated Kagome Magnets. <i>Physical Review Letters</i> , 2019, 123, 196604.	7.8	20
15	Consequences of magnetic ordering in chiral $\text{Mn}_x\text{S}_{1-x}$. <i>Physical Review B</i> , 2019, 100, .	3.2	33
16	Structural studies of metastable and equilibrium vortex lattice domains in MgB2. <i>New Journal of Physics</i> , 2019, 21, 063003.	2.9	4
17	Unpinning the skyrmion lattice in MnSi: Effect of substitutional disorder. <i>Physical Review B</i> , 2019, 99, .	3.2	8
18	Nonequilibrium structural phase transitions of the vortex lattice in $\text{MgB}_{2-x}\text{Nb}_{x/2}\text{O}_{1-x}$. <i>Physical Review B</i> , 2019, 99, .	3.2	6

#	ARTICLE		IF	CITATIONS
19	Structural transition kinetics and activated behavior in the superconducting vortex lattice. Physical Review B, 2019, 99, .		3.2	7
20	New search for mirror neutron regeneration. EPJ Web of Conferences, 2019, 219, 07002.		0.3	11
21	Developing Wide Angle Spherical Neutron Polarimetry at Oak Ridge National Laboratory. Journal of Physics: Conference Series, 2019, 1316, 012014.		0.4	0
22	Nanoscale magnetization inhomogeneity within single phase nanopillars. Physical Review Materials, 2019, 3, .		2.4	5
23	Realization of ordered magnetic skyrmions in thin films at ambient conditions. Physical Review Materials, 2019, 3, .		2.4	30
24	The suite of small-angle neutron scattering instruments at Oak Ridge National Laboratory. Journal of Applied Crystallography, 2018, 51, 242-248.		4.5	115
25	Magnetic Field Control of Cycloidal Domains and Electric Polarization in Multiferroic BiFeO_3 . Physical Review Letters, 2018, 120, 147203.		7.8	15
26	New Polarized Small Angle Neutron Scattering capability at the High Flux Isotope Reactor. Physica B: Condensed Matter, 2018, 551, 492-495.		2.7	4
27	Temperature-dependent magnetism in artificial honeycomb lattice of connected elements. Physical Review B, 2018, 97, .		3.2	13
28	New magnetic phase of the chiral skyrmion material Cu ₂ OSeO ₃ . Science Advances, 2018, 4, eaat7323.		10.3	66
29	Extended exchange interactions stabilize long-period magnetic structures in Cr _{1.3} NbS ₂ . Applied Physics Letters, 2018, 113, 032404.		3.3	16
30	Long-wavelength correlations in ferromagnetic titanate pyrochlores as revealed by small-angle neutron scattering. Physical Review B, 2018, 97, .		3.2	2
31	Structure and property correlations in FeS. Physica C: Superconductivity and Its Applications, 2017, 534, 29-36.		1.2	37
32	Realization of the axial next-nearest-neighbor Ising model in U ₃ Al ₂ Ge ₃ . Physical Review B, 2017, 96, .		3.2	1
33	Versatile strain-tuning of modulated long-period magnetic structures. Applied Physics Letters, 2017, 110, 192409.		3.3	17
34	Exploring the origins of the Dzyaloshinskii-Moriya interaction in MnSi. Physical Review B, 2017, 96, .		3.2	17
35	Spin waves on a frustrated antiferromagnetic honeycomb lattice. Physical Review B, 2015, 91, .		3.2	17
36	High-energy magnetic excitations in overdoped La _{2-x} Mn _x O ₃ by neutron and resonant inelastic x-ray scattering. Physical Review B, 2015, 91, .		3.2	17

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37	Publisher's Note:CaMn ₂ Sb ₂ : Spin waves on a frustrated antiferromagnetic honeycomb lattice [Phys. Rev. B91, 180407(R) (2015)]. Physical Review B, 2015, 91, .	3.2	1
38	Interaction Driven Subgap Spin Exciton in the Kondo InsulatorSmB_6 Physical Review Letters, 2015, 114, 036401.	7.8	83
39	Origin of the charge gap in LaMnPO. Physical Review B, 2014, 90, .	3.2	18
40	A comparison of four direct geometry time-of-flight spectrometers at the Spallation Neutron Source. Review of Scientific Instruments, 2014, 85, 045113.	1.3	107
41	BaFe_2 via small-angle neutron scattering. Physical Review Letters, 2013, 111, 107002.	3.2	12
42	Diagenesis and kerogen release in oil- and gas-bearing shales. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C63-C63.	0.1	0
43	Persistence of Metastable Vortex Lattice Domains in MgB ₂ in the Presence of Vortex Motion. Physical Review Letters, 2013, 111, 107002.	7.8	11
44	Probing the anisotropic vortex lattice in the Fe-based superconductor KFe ₂ . Physical Review B, 2013, 88, .	3.2	8
45	Small-Angle Neutron Scattering Study of Organic-Phase Aggregation in the TALSPEAK Process. Journal of Physical Chemistry B, 2012, 116, 13722-13730.	2.6	22
46	Observation of Well-Ordered Metastable Vortex Lattice Phases in Superconducting MgB ₂ . Physical Review Letters, 2012, 108, 167001.	7.8	21
47	Formation of Kinetically Trapped Nanoscopic Unilamellar Vesicles from Metastable Nanodiscs. Langmuir, 2011, 27, 14308-14316.	3.5	41
48	Observations of Pauli paramagnetic effects on the flux line lattice in CeCoIn ₅ . New Journal of Physics, 2010, 12, 023026.	2.9	28
49	Small-angle neutron scattering study of the vortex lattice in superconducting LuNi _{2.3} . Physical Review B, 2009, 79, .	3.2	12
50	Superconducting Vortices in CeCoIn ₅ : Toward the Pauli-Limiting Field. Science, 2008, 319, 177-180.	12.6	104
51	Pauli Paramagnetic Effects on Vortices in Superconducting Ce _{1-x} Tm _x Ni ₂ . Physical Review Letters, 2007, 99, 167001.	7.8	31
52	Field Dependent Coherence Length in the Superclean, High-Î² Superconductor CeCoIn ₅ . Physical Review Letters, 2006, 97, 127001.	7.8	37
53	Measuring the penetration depth anisotropy in MgB ₂ using small-angle neutron scattering. Physical Review B, 2006, 73, .	3.2	16
54	A hybrid Lagrangian variational method for Bose-Einstein condensates in optical lattices. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 363-376.	1.5	6