

L M Debeer-Schmitt

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2240847/publications.pdf>

Version: 2024-02-01

54
papers

1,194
citations

394421

19
h-index

377865

34
g-index

54
all docs

54
docs citations

54
times ranked

1999
citing authors

#	ARTICLE	IF	CITATIONS
1	The suite of small-angle neutron scattering instruments at Oak Ridge National Laboratory. Journal of Applied Crystallography, 2018, 51, 242-248.	4.5	115
2	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
3	Superconducting Vortices in CeCoIn ₅ : Toward the Pauli-Limiting Field. Science, 2008, 319, 177-180.	12.6	104
4	Interaction Driven Subgap Spin Exciton in the Kondo Insulator SmB_6 . Physical Review Letters, 2015, 114, 036401.	7.8	83
5	New magnetic phase of the chiral skyrmion material Cu_2OSeO_3 . Science Advances, 2018, 4, eaat7323.	10.3	66
6	Formation of Kinetically Trapped Nanoscopic Unilamellar Vesicles from Metastable Nanodiscs. Langmuir, 2011, 27, 14308-14316.	3.5	41
7	Broken time-reversal symmetry in the topological superconductor UPt_3 . Nature Physics, 2020, 16, 531-535.	16.7	41
8	Field Dependent Coherence Length in the Superclean, High- T_c Superconductor CeCoIn_5 . Physical Review Letters, 2006, 97, 127001.	7.8	37
9	Structure and property correlations in FeS. Physica C: Superconductivity and Its Applications, 2017, 534, 29-36.	1.2	37
10	CaMn_2As_2 Spin waves on a frustrated antiferromagnetic honeycomb lattice. Physical Review B, 2015, 91, .	11.2	115
11	Mn_3Sb_2 Physical Review B, 2019, 100, .	3.2	33
12	drtsans: The data reduction toolkit for small-angle neutron scattering at Oak Ridge National Laboratory. SoftwareX, 2022, 19, 101101.	2.6	32
13	Pauli Paramagnetic Effects on Vortices in Superconducting $\text{TmNi}_2\text{B}_2\text{C}$. Physical Review Letters, 2007, 99, 167001.	7.8	31
14	High-energy magnetic excitations in overdoped LaMgB_2 by neutron and resonant inelastic x-ray scattering. Physical Review B, 2015, 91, .	7.2	30
15	Realization of ordered magnetic skyrmions in thin films at ambient conditions. Physical Review Materials, 2019, 3, .	2.4	30
16	Observations of Pauli paramagnetic effects on the flux line lattice in CeCoIn_5 . New Journal of Physics, 2010, 12, 023026.	2.9	28
17	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
18	Observation of Well-Ordered Metastable Vortex Lattice Phases in Superconducting MgB_2 Using Small-Angle Neutron Scattering. Physical Review Letters, 2012, 108, 167001.	7.8	21

#	ARTICLE	IF	CITATIONS
19	Magnetic-Field Control of Topological Electronic Response near Room Temperature in Correlated Kagome Magnets. Physical Review Letters, 2019, 123, 196604.	7.8	20
20	Origin of the charge gap in LaMnPO. Physical Review B, 2014, 90, .	3.2	18
21	Versatile strain-tuning of modulated long-period magnetic structures. Applied Physics Letters, 2017, 110, 192409.	3.3	17
22	Exploring the origins of the Dzyaloshinskii-Moriya interaction in MnSi. Physical Review B, 2017, 96, .	3.2	17
23	Measuring the penetration depth anisotropy in MgB ₂ using small-angle neutron scattering. Physical Review B, 2006, 73, .	3.2	16
24	Extended exchange interactions stabilize long-period magnetic structures in Cr _{1-x} NbS ₂ . Applied Physics Letters, 2018, 113, 032404.	3.3	16
25	Magnetic Field Control of Cycloidal Domains and Electric Polarization in Multiferroic BiFeO ₃ . Physical Review Letters, 2018, 120, 147203.	7.8	15
26	Annihilation and Control of Chiral Domain Walls with Magnetic Fields. Nano Letters, 2021, 21, 1205-1212.	9.1	15
27	Canted antiferromagnetic order in the monoaxial chiral magnets V _{1/3} TaS ₂ and V _{1/3} NbS ₂ . Physical Review Materials, 2020, 4, .	2.4	15
28	Temperature-dependent magnetism in artificial honeycomb lattice of connected elements. Physical Review B, 2018, 97, .	3.2	13
29	Small-angle neutron scattering study of the vortex lattice in superconducting LuNi ₂ B ₂ C. Physical Review B, 2009, 79, .	3.2	12
30	Vortex lattice structure in BaFe ₂ As ₂ via small-angle neutron scattering. Physical Review B, 2013, 88, .	3.2	12
31	Effects of aluminum content on thermoelectric performance of Al _x CoCrFeNi high-entropy alloys. Journal of Alloys and Compounds, 2021, 883, 160811.	5.5	12
32	Persistence of Metastable Vortex Lattice Domains in MgB ₂ in the Presence of Vortex Motion. Physical Review Letters, 2013, 111, 107002.	7.8	11
33	New search for mirror neutron regeneration. EPJ Web of Conferences, 2019, 219, 07002.	0.3	11
34	Squeezing the periodicity of Néel-type magnetic modulations by enhanced Dzyaloshinskii-Moriya interaction of 4d electrons. Npj Quantum Materials, 2022, 7, .	5.2	9
35	Probing the anisotropic vortex lattice in the Fe-based superconductor KFe ₂ As ₂ using small-angle neutron scattering. Physical Review B, 2013, 88, .	3.2	8
36	Unpinning the skyrmion lattice in MnSi: Effect of substitutional disorder. Physical Review B, 2019, 99, .	3.2	8

#	ARTICLE	IF	CITATIONS
37	Structural transition kinetics and activated behavior in the superconducting vortex lattice. <i>Physical Review B</i> , 2019, 99, .	3.2	7
38	A hybrid Lagrangian variational method for Bose-Einstein condensates in optical lattices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, 363-376.	1.5	6
39	Nonequilibrium structural phase transitions of the vortex lattice in MgB_2 . <i>Physical Review B</i> , 2019, 99, .		
40	Magnetoelastic coupling, negative thermal expansion, and two-dimensional magnetic excitations in FeAs. <i>Physical Review B</i> , 2021, 103, .	3.2	6
41	Nanoscale magnetization inhomogeneity within single phase nanopillars. <i>Physical Review Materials</i> , 2019, 3, .	2.4	5
42	New Polarized Small Angle Neutron Scattering capability at the High Flux Isotope Reactor. <i>Physica B: Condensed Matter</i> , 2018, 551, 492-495.	2.7	4
43	Structural studies of metastable and equilibrium vortex lattice domains in MgB_2 . <i>New Journal of Physics</i> , 2019, 21, 063003.	2.9	4
44	Topological energy barrier for skyrmion lattice formation in MnSi. <i>Physical Review B</i> , 2020, 102, .	3.2	4
45	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
46	Long-wavelength correlations in ferromagnetic titanate pyrochlores as revealed by small-angle neutron scattering. <i>Physical Review B</i> , 2018, 97, .	3.2	2
47	Reversible ordering and disordering of the vortex lattice in UPt_3 . <i>Physical Review B</i> , 2022, 105, .	3.2	2
48	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
49	Publisher's Note: CaMn_2Sb_2 : Spin waves on a frustrated antiferromagnetic honeycomb lattice [Phys. Rev. B 91, 180407(R) (2015)]. <i>Physical Review B</i> , 2015, 91, .	3.2	1
50	Realization of the axial next-nearest-neighbor Ising model in $\text{U}_3\text{Al}_2\text{Ge}_3$. <i>Physical Review B</i> , 2017, 96, .	3.2	1
51	Domain Wall Patterning and Giant Response Functions in Ferrimagnetic Spinels. <i>Advanced Science</i> , 2021, 8, 2101402.	11.2	1
52	Effects of the Order Parameter Anisotropy on the Vortex Lattice in UPt_3 . <i>Frontiers in Electronic Materials</i> , 2022, 2, .	3.1	1
53	Developing Wide Angle Spherical Neutron Polarimetry at Oak Ridge National Laboratory. <i>Journal of Physics: Conference Series</i> , 2019, 1316, 012014.	0.4	0
54	Diagenesis and kerogen release in oil- and gas-bearing shales. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C63-C63.	0.1	0