

Wangchun Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1661912/publications.pdf>

Version: 2024-02-01

57
papers

1,526
citations

279798

23
h-index

315739

38
g-index

58
all docs

58
docs citations

58
times ranked

1768
citing authors

#	ARTICLE	IF	CITATIONS
1	The very small angle neutron scattering instrument at the National Institute of Standards and Technology. <i>Journal of Applied Crystallography</i> , 2022, 55, 271-283.	4.5	26
2	A large beam high efficiency radio frequency neutron spin flipper. <i>Review of Scientific Instruments</i> , 2021, 92, 063906.	1.3	2
3	Optimizing magnetically shielded solenoids. <i>Review of Scientific Instruments</i> , 2020, 91, 105102.	1.3	2
4	Antichiral spin order, its soft modes, and their hybridization with phonons in the topological semimetal Mn_3P_2 . <i>Physical Review B</i> , 2020, 102, .	3.2	29
5	Electric Field Imaging Using Polarized Neutrons. <i>Physical Review Letters</i> , 2020, 125, 110801.	7.8	6
6	Sensitive neutron transverse polarization analysis using a ^3He spin filter. <i>Review of Scientific Instruments</i> , 2020, 91, 073303.	1.3	1
7	Small-angle neutron polarimetry apparatus (SANPA): Development at the NIST Center for Neutron Research. <i>Review of Scientific Instruments</i> , 2019, 90, 063303.	1.3	3
8	Spin-liquid-like state in pure and Mn-doped TbInO_3 with a nearly triangular lattice. <i>Physical Review B</i> , 2019, 100, .	3.2	10
9	Generation and detection of spin-orbit coupled neutron beams. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20328-20332.	7.1	29
10	Spin Stripe Order in a Square Planar Trilayer Nickelate. <i>Physical Review Letters</i> , 2019, 122, 247201.	7.8	48
11	Quantum critical behavior in $\text{Ce}(\text{Fe}_{0.76}\text{Ru}_{0.24})_2\text{Ge}_2$. <i>Physical Review B</i> , 2019, 99, .	3.2	5
12	Wide-angle polarization analysis on the multi-axis crystal spectrometer for the study of collective and single particle dynamics of methanol at its prepeak. <i>Physica B: Condensed Matter</i> , 2019, 564, 166-171.	2.7	13
13	Demonstration of Focusing Wolter Mirrors for Neutron Phase and Magnetic Imaging. <i>Journal of Imaging</i> , 2018, 4, 50.	3.0	10
14	Identification of the low-energy excitations in a quantum critical system. <i>AIP Advances</i> , 2017, 7, .	1.3	3
15	A ^3He beam stop for minimizing gamma-ray and fast-neutron background. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 1243-1249.	1.5	10
16	Higgs amplitude mode in a two-dimensional quantum antiferromagnet near the quantum critical point. <i>Nature Physics</i> , 2017, 13, 638-642.	16.7	39
17	Spin echo small angle neutron scattering using a continuously pumped ^3He neutron polarisation analyser. <i>Review of Scientific Instruments</i> , 2015, 86, 023902.	1.3	23
18	Neutron interferometric measurement of the scattering length difference between the triplet and singlet states of ^3He . <i>Physical Review C</i> , 2014, 90, .	2.9	8

#	ARTICLE	IF	CITATIONS
19	On the limits of spin-exchange optical pumping of ^3He . Journal of Applied Physics, 2014, 116, .	2.5	36
20	^3He spin filter based polarized neutron capability at the NIST Center for Neutron Research. Journal of Physics: Conference Series, 2014, 528, 012014.	0.4	23
21	Neutron Path Length Correction of a ^3He Spin Filter. Physics Procedia, 2013, 42, 163-170.	1.2	5
22	Friedel-Like Oscillations from Interstitial Iron in Superconducting Fe . Physical Review Letters, 2012, 108, 107002.	7.8	51
23	Polarization-analyzed small-angle neutron scattering. I. Polarized data reduction using Pol-Corr . Journal of Applied Crystallography, 2012, 45, 546-553.	4.5	29
24	Local Weak Ferromagnetism in Single-Crystalline Ferroelectric BiFeO_3 . Physical Review Letters, 2011, 107, 207206.	7.8	124
25	Polarized ^3He cell development and application at NIST. Journal of Physics: Conference Series, 2011, 294, 012003.	0.4	33
26	Neutron Diffraction Investigations of Magnetism in BiFeO_3 Epitaxial Films. Advanced Functional Materials, 2011, 21, 1567-1574.	14.9	42
27	A wide angle neutron spin filter system using polarized ^3He . Physica B: Condensed Matter, 2011, 406, 2419-2423.	2.7	13
28	Nanometer-size magnetic domains and coherent magnetization reversal in a giant exchange-bias system. Physical Review B, 2011, 84, .	3.2	22
29	In-situ Polarized ^3He -Based Neutron Polarization Analyzer for SNS Magnetism Reflectometer. Journal of Physics: Conference Series, 2010, 251, 012086.	0.4	5
30	Electrical heating for SEOP-based polarized ^3He system. Journal of Physics: Conference Series, 2010, 251, 012087.	0.4	7
31	Core-Shell Magnetic Morphology of Structurally Uniform Magnetite Nanoparticles. Physical Review Letters, 2010, 104, 207203.	7.8	130
32	Internal magnetic structure of magnetite nanoparticles at low temperature. Journal of Applied Physics, 2010, 107, 09B525.	2.5	10
33	End-compensated magnetostatic cavity for polarized ^3He neutron spin filters. Review of Scientific Instruments, 2009, 80, 063905.	1.3	23
34	Precision Measurement of the n Coherent Scattering Length Using Neutron Interferometry. Physical Review Letters, 2009, 102, 200401.	7.8	23
35	Effects of high-flux neutron beams on $\text{Ni}_3\text{V}_2\text{O}_8$. Physical Review Letters, 2009, 102, 200401.	7.8	67
36	Effects of high-flux neutron beams on H_3He cells polarized in situ with spin-exchange optical pumping. Physical Review A, 2009, 80, .	2.5	11

#	ARTICLE	IF	CITATIONS
37	Resolving 3D magnetism in nanoparticles using polarization analyzed SANS. Physica B: Condensed Matter, 2009, 404, 2561-2564.	2.7	33
38	In situ SEOP polarised ³ He neutron spin filter for incident beam polarisation and polarisation analysis on neutron scattering instruments. Physica B: Condensed Matter, 2009, 404, 2659-2662.	2.7	35
39	Applications of ³ He neutron spin filters at the NCNR. Physica B: Condensed Matter, 2009, 404, 2663-2666.	2.7	48
40	In-situ SEOP polarizer and initial tests on a high flux neutron beam. Physica B: Condensed Matter, 2009, 404, 2655-2658.	2.7	14
41	Neutron Beam Effects on Spin-Exchange-Polarized ³ He. Physical Review Letters, 2008, 101, 083002.	7.8	18
42	Spin-exchange optical pumping of ³ He with Rb-K mixtures and pure K. Physical Review A, 2007, 75, .	2.5	91
43	Suppression of nuclear polarization near the surface of optically pumped GaAs. Physical Review B, 2007, 76, .	3.2	8
44	³ He spin filters for a thermal neutron triple axis spectrometer. Physica B: Condensed Matter, 2007, 397, 168-171.	2.7	30
45	Variation in structure and properties of a non-dispersive TTCP/D CPA-derived CPC immersed in Hanks? solution. Journal of Oral Rehabilitation, 2007, 34, 541-551.	3.0	17
46	Limits to the Polarization for Spin-Exchange Optical Pumping of ³ He. Physical Review Letters, 2006, 96, 083003.	7.8	67
47	Continuously operating compact He-based neutron spin filter. Physica B: Condensed Matter, 2005, 356, 86-90.	2.7	17
48	Polarized spin filters in neutron scattering. Physica B: Condensed Matter, 2005, 356, 96-102.	2.7	45
49	Polarized ³ He gas compression system using metastability-exchange optical pumping. Review of Scientific Instruments, 2005, 76, 053503.	1.3	20
50	Polarized He-3 spin filters for slow neutron physics. Journal of Research of the National Institute of Standards and Technology, 2005, 110, 299.	1.2	24
51	Polarized neutron reflectometry of a patterned magnetic film with a ³ He analyzer and a position-sensitive detector. Review of Scientific Instruments, 2004, 75, 3256-3263.	1.3	22
52	Low-field orientation dependence of ³ He relaxation in spin-exchange cells. Physical Review A, 2004, 69, .	2.5	25
53	Polarized He analyzers for neutron reflectometry. Physica B: Condensed Matter, 2003, 335, 196-200.	2.7	12
54	Production of highly polarized ³ He using spectrally narrowed diode laser array bars. Journal of Applied Physics, 2003, 94, 6908-6914.	2.5	57

#	ARTICLE	IF	CITATIONS
55	Small-angle x-ray scattering measurements of hydrogen evolution from an epitaxial Nb film. Physical Review B, 2002, 66, .	3.2	5
56	Title is missing!. Journal of Materials Science Letters, 2002, 21, 1583-1585.	0.5	5
57	Small-angle neutron scattering measurements of deuteride (hydride) formation and decomposition in single-crystal Pd. Physical Review B, 2001, 65, .	3.2	5