

Martin Fertl

List of Publications by Year in descending order

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45
papers

2,094
citations

430874

18
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

1882
citing authors

#	ARTICLE	IF	CITATIONS
1	Viterbi decoding of CRES signals in Project 8. <i>New Journal of Physics</i> , 2022, 24, 053013.	2.9	0
2	Beam dynamics corrections to the Run-1 measurement of the muon anomalous magnetic moment at Fermilab. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	32
3	Magnetic-field measurement and analysis for the Muon $g-2$ experiment at Fermilab. <i>Physical Review A</i> , 2021, 103, .	2.5	52
4	Measurement of the Positive Muon Anomalous Magnetic Moment to 0.46 ppm. <i>Physical Review Letters</i> , 2021, 126, 141801.	7.8	991
5	The design of the nEDM experiment. <i>European Physical Journal C</i> , 2021, 81, 512.	3.9	27
6	Johnson-Nyquist noise effects in neutron electric-dipole-moment experiments. <i>Physical Review A</i> , 2021, 103, .	2.5	2
7	Bayesian analysis of a future $\hat{\nu}^2$ decay experiment's sensitivity to neutrino mass scale and ordering. <i>Physical Review C</i> , 2021, 103, .	2.9	9
8	High-accuracy absolute magnetometry with application to the Fermilab Muon $g-2$ experiment. <i>Journal of Instrumentation</i> , 2021, 16, P12041.	1.2	3
9	Optically pumped Cs magnetometers enabling a high-sensitivity search for the neutron electric dipole moment. <i>Physical Review A</i> , 2020, 101, .	2.5	19
10	Measurement of the Permanent Electric Dipole Moment of the Neutron. <i>Physical Review Letters</i> , 2020, 124, 081803.	7.8	263
11	Cyclotron radiation emission spectroscopy signal classification with machine learning in project 8. <i>New Journal of Physics</i> , 2020, 22, 033004.	2.9	9
12	Electron radiated power in cyclotron radiation emission spectroscopy experiments. <i>Physical Review C</i> , 2019, 99, .	2.9	13
13	Locust: C++ software for simulation of RF detection. <i>New Journal of Physics</i> , 2019, 21, 113051.	2.9	4
14	Demonstration of sensitivity increase in mercury free-spin-precession magnetometers due to laser-based readout for neutron electric dipole moment searches. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 896, 129-138.	1.6	12
15	Review of absolute neutrino mass measurements. <i>Hyperfine Interactions</i> , 2018, 239, 1.	0.5	2
16	Determining the neutrino mass with cyclotron radiation emission spectroscopy in Project 8. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2017, 44, 054004.	3.6	78
17	Active compensation of magnetic field distortions based on vector spherical harmonics field description. <i>AIP Advances</i> , 2017, 7, .	1.3	6
18	Results from the Project 8 phase-1 cyclotron radiation emission spectroscopy detector. <i>Journal of Physics: Conference Series</i> , 2017, 888, 012074.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Project 8 Phase III Design Concept. Journal of Physics: Conference Series, 2017, 888, 012230.	0.4	0
20	Next generation muon g-2 experiment at FNAL. Hyperfine Interactions, 2016, 237, 1.	0.5	4
21	A prestorage method to measure neutron transmission of ultracold neutron guides. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 807, 30-40.	1.6	13
22	Experimental study of ultracold neutron production in pressurized superfluid helium. Physical Review C, 2015, 92, .	2.9	16
23	Observation of Gravitationally Induced Vertical Striation of Polarized Ultracold Neutrons by Spin-Echo Spectroscopy. Physical Review Letters, 2015, 115, 162502.	7.8	19
24	Gravitational depolarization of ultracold neutrons: Comparison with data. Physical Review D, 2015, 92, .	4.7	18
25	The Measurement of the Anomalous Magnetic Moment of the Muon at Fermilab. Journal of Physical and Chemical Reference Data, 2015, 44, .	4.2	17
26	Measurement of a false electric dipole moment signal from ^{199}Hg atoms exposed to an inhomogeneous magnetic field. European Physical Journal D, 2015, 69, 1.	1.3	18
27	Neutron production and thermal moderation at the PSI UCN source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 777, 20-27.	1.6	15
28	Constraining interactions mediated by axion-like particles with ultracold neutrons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 745, 58-63.	4.1	29
29	Single-Electron Detection and Spectroscopy via Relativistic Cyclotron Radiation. Physical Review Letters, 2015, 114, 162501.	7.8	76
30	A device for simultaneous spin analysis of ultracold neutrons. European Physical Journal A, 2015, 51, 1.	2.5	26
31	A measurement of the neutron to ^{199}Hg magnetic moment ratio. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 128-132.	4.1	30
32	Dynamic stabilization of the magnetic field surrounding the neutron electric dipole moment spectrometer at the Paul Scherrer Institute. Journal of Applied Physics, 2014, 116, .	2.5	48
33	New source for ultracold neutrons at the Institut Laue-Langevin. Physical Review C, 2014, 90, .	2.9	47
34	Experimental study of ^{199}Hg spin anti-relaxation coatings. Applied Physics B: Lasers and Optics, 2014, 115, 257-262.	2.2	3
35	Copper coated carbon fiber reinforced plastics for high and ultra high vacuum applications. Vacuum, 2014, 101, 212-216.	3.5	6
36	An endoscopic detector for ultracold neutrons. European Physical Journal A, 2013, 49, 1.	2.5	4

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37	Transitions between levels of a quantum bouncer induced by a noise-like perturbation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 677, 10-13.	1.6	4
38	The search for the neutron electric dipole moment at the Paul Scherrer Institute. Physics Procedia, 2011, 17, 159-167.	1.2	56
39	MC calculations for the nEDM experiment systematics. Physics Procedia, 2011, 17, 259-267.	1.2	7
40	Production and characterization of intercalated graphite crystals for cold neutron monochromators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 634, S37-S40.	1.6	12
41	Testing isotropy of the universe using the Ramsey resonance technique on ultracold neutron spins. Physica B: Condensed Matter, 2011, 406, 2365-2369.	2.7	3
42	New constraints on Lorentz invariance violation from the neutron electric dipole moment. Europhysics Letters, 2010, 92, 51001.	2.0	24
43	Ultracold neutrons extracted from a superfluid-helium converter coated with fluorinated grease. European Physical Journal C, 2010, 67, 589-599.	3.9	22
44	An improved measurement of the electric dipole moment of the neutron. Nuclear Physics A, 2010, 844, 47c-52c.	1.5	8
45	Superfluid-Helium Converter for Accumulation and Extraction of Ultracold Neutrons. Physical Review Letters, 2007, 99, 104801.	7.8	45