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	Measurement of the Positive Muon Anomalous Magnetic Moment to 0.46Âppm. Physical Review Letters, 2021, 126, 141801.	7.8	991
2	Measurement of the Permanent Electric Dipole Moment of the Neutron. Physical Review Letters, 2020, 124, 081803.	7.8	263
3	Determining the neutrino mass with cyclotron radiation emission spectroscopyâ€”Project 8. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 054004.	3.6	78
4	Single-Electron Detection and Spectroscopy via Relativistic Cyclotron Radiation. Physical Review Letters, 2015, 114, 162501.	7.8	76
5	The search for the neutron electric dipole moment at the Paul Scherrer Institute. Physics Procedia, 2011, 17, 159-167.	1.2	56
6	Magnetic-field measurement and analysis for the Muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>g</mml:mi><mml:mo>â^’</mml:mo><mml:mn>2</mml:m Experiment at Fermilab. Physical Review A, 2021, 103, .	2.5	54
7	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
8	New source for ultracold neutrons at the Institut Laue-Langevin. Physical Review C, 2014, 90, .	2.9	47
9	Superfluid-Helium Converter for Accumulation and Extraction of Ultracold Neutrons. Physical Review Letters, 2007, 99, 104801.	7.8	45
10	Beam dynamics corrections to the Run-1 measurement of the muon anomalous magnetic moment at Fermilab. Physical Review Accelerators and Beams, 2021, 24, .	1.6	32
11	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
12	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
13	The design of the n2EDM experiment. European Physical Journal C, 2021, 81, 512.	3.9	27
14	A device for simultaneous spin analysis of ultracold neutrons. European Physical Journal A, 2015, 51, 1.	2.5	26
15	New constraints on Lorentz invariance violation from the neutron electric dipole moment. Europhysics Letters, 2010, 92, 51001.	2.0	24
16	Ultracold neutrons extracted from a superfluid-helium converter coated with fluorinated grease. European Physical Journal C, 2010, 67, 589-599.	3.9	22
17	Observation of Gravitationally Induced Vertical Striation of Polarized Ultracold Neutrons by Spin-Echo Spectroscopy. Physical Review Letters, 2015, 115, 162502.	7.8	19
18	Optically pumped Cs magnetometers enabling a high-sensitivity search for the neutron electric dipole moment. Physical Review A, 2020, 101, .	2.5	19

#	Article	IF	Citations
19	Gravitational depolarization of ultracold neutrons: Comparison with data. Physical Review D, 2015, 92, .	4.7	18
20	Measurement of a false electric dipole moment signal from 199Hg atoms exposed to an inhomogeneous magnetic field. European Physical Journal D, 2015, 69, 1.	1.3	18
21	The Measurement of the Anomalous Magnetic Moment of the Muon at Fermilab. Journal of Physical and Chemical Reference Data, 2015, 44, .	4.2	17
22	Experimental study of ultracold neutron production in pressurized superfluid helium. Physical Review C, 2015, 92, .	2.9	16
23	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
24	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
25	Electron radiated power in cyclotron radiation emission spectroscopy experiments. Physical Review C, 2019, 99, .	2.9	13
26	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
27	Demonstration of sensitivity increase in mercury free-spin-precession magnetometers due to laser-based readout for neutron electric dipole moment searches. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 896, 129-138.	1.6	12
28	Cyclotron radiation emission spectroscopy signal classification with machine learning in project 8. New Journal of Physics, 2020, 22, 033004.	2.9	9
29	Bayesian analysis of a future <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> decay experiment's sensitivity to neutrino mass scale and ordering. Physical Review C, 2021, 103, .	2.9	9
30	An improved measurement of the electric dipole moment of the neutron. Nuclear Physics A, 2010, 844, 47c-52c.	1.5	8
31	MC calculations for the nEDM experiment systematics. Physics Procedia, 2011, 17, 259-267.	1.2	7
32	Copper coated carbon fiber reinforced plastics for high and ultra high vacuum applications. Vacuum, 2014, 101, 212-216.	3.5	6
33	Active compensation of magnetic field distortions based on vector spherical harmonics field description. AIP Advances, 2017, 7, .	1.3	6
34	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
35	An endoscopic detector for ultracold neutrons. European Physical Journal A, 2013, 49, 1.	2.5	4
36	Next generation muon g-2 experiment at FNAL. Hyperfine Interactions, 2016, 237, 1.	0.5	4

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37	Locust: C++ software for simulation of RF detection. New Journal of Physics, 2019, 21, 113051.	2.9	4
38	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
39	Experimental study of 199Hg spin anti-relaxation coatings. Applied Physics B: Lasers and Optics, 2014, 115, 257-262.	2.2	3
40	High-accuracy absolute magnetometry with application to the Fermilab Muon g-2 experiment. Journal of Instrumentation, 2021, 16, P12041.	1.2	3
41	Review of absolute neutrino mass measurements. Hyperfine Interactions, 2018, 239, 1.	0.5	2
42	Johnson-Nyquist noise effects in neutron electric-dipole-moment experiments. Physical Review A, 2021, 103, .	2.5	2
43	Results from the Project 8 phase-1 cyclotron radiation emission spectroscopy detector. Journal of Physics: Conference Series, 2017, 888, 012074.	0.4	0
44	Project 8 Phase III Design Concept. Journal of Physics: Conference Series, 2017, 888, 012230.	0.4	0
45	Viterbi decoding of CRES signals in Project 8. New Journal of Physics, 2022, 24, 053013.	2.9	0