David Kawall

List of Publications by Year
in descending order

44 papers	5,615 citations	279798 23 h-index	345221 36 g-index
44 all docs	44 docs citations	44 times ranked	6234 citing authors

#	Article	IF	Citations
1	Final report of the E821 muon anomalous magnetic moment measurement at BNL. Physical Review D, 2006, 73, .	4.7	1,800
2	Measurement of the Positive Muon Anomalous Magnetic Moment to 0.46Âppm. Physical Review Letters, 2021, 126, 141801.	7.8	991
3	Measurement of the Negative Muon Anomalous Magnetic Moment to 0.7Âppm. Physical Review Letters, 2004, 92, 161802.	7.8	628
4	Measurement of the Positive Muon Anomalous Magnetic Moment to 0.7Âppm. Physical Review Letters, 2002, 89, 101804.	7.8	378
5	High Precision Measurements of the Ground State Hyperfine Structure Interval of Muonium and of the Muon Magnetic Moment. Physical Review Letters, 1999, 82, 711-714.	7.8	239
6	Improved limit on the muon electric dipole moment. Physical Review D, 2009, 80, .	4.7	215
7	Publisherâ€™s Note: Measurement of the Positive Muon Anomalous Magnetic Moment to 0.7Âppm [Phys. Rev. Lett.89, 101804 (2002)]. Physical Review Letters, 2002, 89, .	7.8	145
8	Measurement of Long-Range Angular Correlation and Quadrupole Anisotropy of Pions and (Anti)Protons in Central<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>d</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mml:math>Collisions at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:mrow><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><mml:mrow><m Physical Review Letters, 2015, 114, 192301.	7.8	143
9	Search for a Permanent Muon Electric Dipole Moment. Physical Review Letters, 2019, 122, 041801.	7.8	140
10	Investigation of PbO as a system for measuring the electric dipole moment of the electron. Physical Review A, 2000, 61, .	2.5	112
11	Measurement of the anomalous precession frequency of the muon in the Fermilab Muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi><mml:mo>â^’</mml:mo><mml:mn>2</mml:mn></mml:math> Experiment. Physical Review D, 2021, 103, .	4.7	105
12	A storage ring experiment to detect a proton electric dipole moment. Review of Scientific Instruments, 2016, 87, 115116.	1.3	85
13	Precision Zeeman-Stark Spectroscopy of the Metastablea(1)[Î£+3]State of PbO. Physical Review Letters, 2004, 92, 133007.	7.8	67
14	Cold-Nuclear-Matter Effects on Heavy-Quark Production at Forward and Backward Rapidity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>d</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mml:math>Collisions at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:mrow><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><mml:mrow><m Physical Review Letters, 2014, 112, 252301.	7.8	56
15	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:mn></mml:m Experiment at Fermilab. Physical Review A, 2021, 103, .	2.5	52
16	The Brookhaven muon storage ring magnet. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 457, 151-174.	1.6	52
17	A New Method For A Sensitive Deuteron EDM Experiment. AIP Conference Proceedings, 2004, , .	0.4	52
18	Centrality-Dependent Modification of Jet-Production Rates in Deuteron-Gold Collisions at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:mrow><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><mml:mrow><m Physical Review Letters, 2016, 116, 122301.	7.8	48

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19	Measurements of Multiparticle Correlations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>d</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:mrow></mml:math> Collisions at 200, 62.4, 39, and 19.6ÂGeV and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	7.8	43
20	The superconducting inflector for the BNL g-2 experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 491, 23-40.	1.6	37
21	Pseudorapidity Dependence of Particle Production and Elliptic Flow in Asymmetric Nuclear Collisions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mi>Al</mml:mi></mml:mrow></mml:math> , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mi>Au</mml:mi></mml:math> ,	7.8	36
22	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
23	New precise spectroscopy of the hyperfine structure in muonium with a high-intensity pulsed muon beam. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 815, 136154.	4.1	24
24	Azimuthal-Angle Dependence of Charged-Pion-Interferometry Measurements with Respect to Second- and Third-Order Event Planes inAu+AuCollisions atsNN=200â€‰â€‰GeV. Physical Review Letters, 2014, 112, 222301.	7.8	20
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	Absolute Magnetometry with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2020, 124, 223001.	7.8	17
27	Progress towards measuring the electric dipole moment of the electron in metastable PbO. AIP Conference Proceedings, 2004, , .	0.4	15
28	Rabi-oscillation spectroscopy of the hyperfine structure of muonium atoms. Physical Review A, 2021, 104, .	2.5	14
29	Nuclear Dependence of the Transverse Single-Spin Asymmetry in the Production of Charged Hadrons at Forward Rapidity in Polarized p+p , p+Al , and p+Au Collisions at sNN=200â€‰â€‰GeV. Physical Review Letters, 2019, 123, 122001.	7.8	11
30	Probing Gluon Spin-Momentum Correlations in Transversely Polarized Protons through Midrapidity Isolated Direct Photons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>p</mml:mi><mml:mo stretchy="false">â†‘</mml:mo></mml:msup><mml:mo>+</mml:mo><mml:mi>p</mml:mi></mml:math> Collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	7.8	11
31	display="inline"><mml:msqrt><mml:mi>s</mml:mi></mml:msqrt><mml:mo>=</mml:mo><mml:mn>200</mml:mn><mml:mtext>â€‰ Nuclear Dependence of the Transverse-Single-Spin Asymmetry for Forward Neutron Production in Polarized p+A Collisions at sNN=200â€‰â€‰GeV. Physical Review Letters, 2018, 120, 022001.	7.8	10
32	Search for the electron electric dipole moment. AIP Conference Proceedings, 2006, , .	0.4	5
33	The fast non-ferric kicker system for the Muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1042" altimg="si55.svg"><mml:mrow><mml:mi>g</mml:mi><mml:mo linebreak="goodbreak" linebreakstyle="after">â^’</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:math> Experiment at Fermilab. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1011, 165597.	1.6	5
34	New precise measurement of muonium hyperfine structure interval at J-PARC. Hyperfine Interactions, 2017, 238, 1.	0.5	3
35	High-accuracy absolute magnetometry with application to the Fermilab Muon g-2 experiment. Journal of Instrumentation, 2021, 16, P12041.	1.2	3
36	MUON g-2 EXPERIMENT AT BROOKHAVEN NATIONAL LABORATORY. International Journal of Modern Physics A, 2001, 16, 287-291.	1.5	2

#	Article	IF	Citations
37	Status of the BNL muon. , 1997, , .		0
38	A precise microwave spectroscopy measurement of the muonium ground state: hyperfine structure interval and muon magnetic moment. , 0, , .		0
39	Status of the BNL muon (g-2) experiment. IEEE Transactions on Instrumentation and Measurement, 1999, 48, 182-185.	4.7	0
40	The muon anomalous magnetic moment experiment at Brookhaven. AIP Conference Proceedings, 2001, , .	0.4	0
41	A PRECISE MEASUREMENT OF THE ANOMALOUS MAGNETIC MOMENT OF THE MUON. , 2001, , .		0
42	TEST OF CPT AND LORENTZ INVARIANCE FROM MUONIUM SPECTROSCOPY. , 2002, , .		0
43	TESTING CPT AND LORENTZ INVARIANCE WITH THE ANOMALOUS SPIN PRECESSION OF THE MUON. , 2002, , .		0
44	RESULTS FROM THE MUON G-2 EXPERIMENT. , 2002, , .		0