

David Kawall

List of Publications by Year in descending order

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44
papers

5,615
citations

279798

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345221

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all docs

44
docs citations

44
times ranked

6234
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Magnetic-field measurement and analysis for the Muon $g-2$ Experiment at Fermilab. Physical Review A, 2021, 103, .	5.5	54
3	Measurement of the Positive Muon Anomalous Magnetic Moment to 0.46 ppm. Physical Review Letters, 2021, 126, 141801.	7.8	991
4	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
5	Measurement of the anomalous precession frequency of the muon in the Fermilab Muon $g-2$ Experiment. Physical Review D, 2021, 103, .	4.7	105
6	Rabi-oscillation spectroscopy of the hyperfine structure of muonium atoms. Physical Review A, 2021, 104, . <i>The fast non-ferric bicrystal system for the Muon</i> $g-2$	2.5	14
7	Probing Muon Spin-Momentum Correlations in Transversely Polarized Protons through Midrapidity Isolated Direct Photons in $g-2$ Experiment at Fermilab. Physical Review Letters, 2021, 126, 141801.	1.6	5
8	Collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2019, 123, 122001.	7.8	11
9	High-accuracy absolute magnetometry with application to the Fermilab Muon $g-2$ experiment. Journal of Instrumentation, 2021, 16, P12041.	1.2	3
10	Absolute Magnetometry with ^3He . Physical Review Letters, 2020, 124, 223001.	7.8	17
11	Nuclear Dependence of the Transverse Single-Spin Asymmetry in the Production of Charged Hadrons at Forward Rapidity in Polarized $p+p$, $p+\text{Al}$, and $p+\text{Au}$ Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2019, 123, 122001.	7.8	11
12	Measurements of Multiparticle Correlations in $g-2$ Collisions at 200, 62.4, 39, and 19.6 GeV and $g-2$ Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2018, 120, 022001.	7.8	43
13	Nuclear Dependence of the Transverse Single-Spin Asymmetry for Forward Neutron Production in Polarized $p+\text{A}$ Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2018, 120, 022001.	7.8	10
14	Pseudorapidity Dependence of Particle Production and Elliptic Flow in Asymmetric Nuclear Collisions of $g-2$ Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2016, 116, 022001.	7.8	36
15	New precise measurement of muonium hyperfine structure interval at J-PARC. Hyperfine Interactions, 2017, 238, 1.	0.5	3
16	A storage ring experiment to detect a proton electric dipole moment. Review of Scientific Instruments, 2016, 87, 115116.	1.3	85
17	Centrality-Dependent Modification of Jet-Production Rates in Deuteron-Gold Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2016, 116, 022001.	7.8	48
18	Measurements of Elliptic and Triangular Flow in High-Multiplicity $g-2$ Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2016, 116, 022001.	7.8	140

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19	The Measurement of the Anomalous Magnetic Moment of the Muon at Fermilab. Journal of Physical and Chemical Reference Data, 2015, 44, .	4.2	17
20	Measurement of Long-Range Angular Correlation and Quadrupole Anisotropy of Pions and (Anti)Protons in Central $d+Au$ Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2015, 114, 192301.	7.8	143
21	Azimuthal-Angle Dependence of Charged-Pion-Interferometry Measurements with Respect to Second- and Third-Order Event Planes in $Au+Au$ Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2014, 112, 222301.	7.8	20
22	Cold-Nuclear-Matter Effects on Heavy-Quark Production at Forward and Backward Rapidity in $d+Au$ Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2014, 112, 252301.	7.8	56
23	Improved limit on the muon electric dipole moment. Physical Review D, 2009, 80, .	4.7	215
24	Final report of the E821 muon anomalous magnetic moment measurement at BNL. Physical Review D, 2006, 73, .	4.7	1,800
25	Search for the electron electric dipole moment. AIP Conference Proceedings, 2006, , .	0.4	5
26	Progress towards measuring the electric dipole moment of the electron in metastable PbO. AIP Conference Proceedings, 2004, , .	0.4	15
27	Precision Zeeman-Stark Spectroscopy of the Metastable $(1) [^1\text{F}_3]$ State of PbO. Physical Review Letters, 2004, 92, 133007.	7.8	67
28	A New Method For A Sensitive Deuteron EDM Experiment. AIP Conference Proceedings, 2004, , .	0.4	52
29	Measurement of the Negative Muon Anomalous Magnetic Moment to $0.7\hat{\text{A}}\text{ppm}$. Physical Review Letters, 2004, 92, 161802.	7.8	628
30	Publisher's Note: Measurement of the Positive Muon Anomalous Magnetic Moment to $0.7\hat{\text{A}}\text{ppm}$ [Phys. Rev. Lett.89, 101804 (2002)]. Physical Review Letters, 2002, 89, .	7.8	145
31	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
32	Measurement of the Positive Muon Anomalous Magnetic Moment to $0.7\hat{\text{A}}\text{ppm}$. Physical Review Letters, 2002, 89, 101804.	7.8	378
33	TEST OF CPT AND LORENTZ INVARIANCE FROM MUONIUM SPECTROSCOPY. , 2002, , .		0
34	TESTING CPT AND LORENTZ INVARIANCE WITH THE ANOMALOUS SPIN PRECESSION OF THE MUON. , 2002, , .		0
35	RESULTS FROM THE MUON G-2 EXPERIMENT. , 2002, , .		0
36	The muon anomalous magnetic moment experiment at Brookhaven. AIP Conference Proceedings, 2001, , .	0.4	0

#	ARTICLE	IF	CITATIONS
37	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
38	MUON g-2 EXPERIMENT AT BROOKHAVEN NATIONAL LABORATORY. International Journal of Modern Physics A, 2001, 16, 287-291.	1.5	2
39	A PRECISE MEASUREMENT OF THE ANOMALOUS MAGNETIC MOMENT OF THE MUON. , 2001, , .		0
40	Investigation of PbO as a system for measuring the electric dipole moment of the electron. Physical Review A, 2000, 61, .	2.5	112
41	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
42	Status of the BNL muon (g-2) experiment. IEEE Transactions on Instrumentation and Measurement, 1999, 48, 182-185.	4.7	0
43	Status of the BNL muon. , 1997, , .		0
44	A precise microwave spectroscopy measurement of the muonium ground state: hyperfine structure interval and muon magnetic moment. , 0, , .		0