

David C Moore

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

4,983
citations

147801

31
h-index

88630

70
g-index

80
all docs

80
docs citations

80
times ranked

5770
citing authors

#	ARTICLE	IF	CITATIONS
1	Dark Matter Search Results from the CDMS II Experiment. <i>Science</i> , 2010, 327, 1619-1621.	12.6	627
2	Results from a Low-Energy Analysis of the CDMS II Germanium Data. <i>Physical Review Letters</i> , 2011, 106, 131302.	7.8	419
3	Silicon Detector Dark Matter Results from the Final Exposure of CDMS II. <i>Physical Review Letters</i> , 2013, 111, 251301.	7.8	410
4	Search for Majorana neutrinos with the first two years of EXO-200 data. <i>Nature</i> , 2014, 510, 229-234.	27.8	355
5	The Multiwavelength Survey by Yale-Chile (MUSYC): Survey Design and Deep Public UBVRIZ $\hat{=}$ Images and Catalogs of the Extended Hubble Deep Field "South. <i>Astrophysical Journal, Supplement Series</i> , 2006, 162, 1-19.	7.7	228
6	Search for Low-Mass Weakly Interacting Massive Particles Using Voltage-Assisted Calorimetric Ionization Detection in the SuperCDMS Experiment. <i>Physical Review Letters</i> , 2014, 112, 041302.	7.8	221
7	Titanium nitride films for ultrasensitive microresonator detectors. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	191
8	Search for Neutrinoless Double- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow} \langle \text{mml:mi} \hat{=}^2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Decay with the Complete EXO-200 Dataset. <i>Physical Review Letters</i> , 2019, 123, 161802.	7.8	163
9	Search for Neutrinoless Double-Beta Decay with the Upgraded EXO-200 Detector. <i>Physical Review Letters</i> , 2018, 120, 072701.	7.8	152
10	Improved measurement of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \hat{=}^{1/2} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \hat{=}^2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow} \langle \text{mml:msup} \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 136 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ Xe with the EXO-200 detector. <i>Physical Review C</i> , 2014, 89, .	2.9	135
11	Search for Millicharged Particles Using Optically Levitated Microspheres. <i>Physical Review Letters</i> , 2014, 113, 251801.	7.8	131
12	Search for Screened Interactions Associated with Dark Energy below the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow} \langle \text{mml:mn} \rangle 100 \langle \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle \hat{=} \% \langle \text{mml:mtext} \rangle \langle \text{mml:mi} \hat{=}^{1/4} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Length Scale. <i>Physical Review Letters</i> , 2016, 117, 101101.	7.8	116
13	Sensitivity and discovery potential of the proposed nEXO experiment to neutrinoless double- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mi} \hat{=}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ decay. <i>Physical Review C</i> , 2018, 97, .	2.9	115
14	Low-threshold analysis of CDMS shallow-site data. <i>Physical Review D</i> , 2010, 82, .	4.7	95
15	Optical levitation of 10-ng spheres with nano- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mi} \rangle g \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ acceleration sensitivity. <i>Physical Review A</i> , 2017, 96, .	2.5	93
16	Force and acceleration sensing with optically levitated nanogram masses at microkelvin temperatures. <i>Physical Review A</i> , 2020, 101, .	2.5	87
17	Search for Axions with the CDMS Experiment. <i>Physical Review Letters</i> , 2009, 103, 141802.	7.8	80
18	Searching for new physics using optically levitated sensors. <i>Quantum Science and Technology</i> , 2021, 6, 014008.	5.8	70

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19	Mechanical quantum sensing in the search for dark matter. Quantum Science and Technology, 2021, 6, 024002.	5.8	67
20	Combined limits on WIMPs from the CDMS and EDELWEISS experiments. Physical Review D, 2011, 84, .	4.7	63
21	Optical rotation of levitated spheres in high vacuum. Physical Review A, 2018, 97, .	2.5	61
22	Position and energy-resolved particle detection using phonon-mediated microwave kinetic inductance detectors. Applied Physics Letters, 2012, 100, .	3.3	57
23	Search for Composite Dark Matter with Optically Levitated Sensors. Physical Review Letters, 2020, 125, 181102.	7.8	56
24	Demonstration of surface electron rejection with interleaved germanium detectors for dark matter searches. Applied Physics Letters, 2013, 103, .	3.3	51
25	Angular momentum on the lattice: The case of nonzero linear momentum. Physical Review D, 2006, 73, .	4.7	45
26	Silicon detector results from the first five-tower run of CDMS II. Physical Review D, 2013, 88, .	4.7	43
27	Search for Majoron-emitting modes of double-beta decay of Xe136 with EXO-200. Physical Review D, 2014, 90, .	4.7	41
28	First search for Lorentz and CPT violation in double beta decay with EXO-200. Physical Review D, 2016, 93, .	4.7	39
29	Measurements of the ion fraction and mobility of I^{\pm} products in liquid xenon using the EXO-200 detector. Physical Review C, 2015, 92, .	2.9	36
30	Deep neural networks for energy and position reconstruction in EXO-200. Journal of Instrumentation, 2018, 13, P08023-P08023.	1.2	34
31	Investigation of radioactivity-induced backgrounds in EXO-200. Physical Review C, 2015, 92, .	2.9	32
32	Single-beam dielectric-microsphere trapping with optical heterodyne detection. Physical Review A, 2018, 97, .	2.5	32
33	Thin film dielectric microstrip kinetic inductance detectors. Applied Physics Letters, 2010, 96, .	3.3	31
34	Analysis of the low-energy electron-recoil spectrum of the CDMS experiment. Physical Review D, 2010, 81, .	4.7	31
35	An RF-only ion-funnel for extraction from high-pressure gases. International Journal of Mass Spectrometry, 2015, 379, 110-120.	1.5	29
36	Spectroscopy of Ba and Ba^{2+} in solid xenon for barium tagging in nEXO. Physical Review A, 2015, 91, .	2.5	29

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55	Nuclear-recoil energy scale in CDMS II silicon dark-matter detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 905, 71-81.	1.6	11
56	Trapped Electrons and Ions as Particle Detectors. Physical Review Letters, 2021, 127, 061804.	7.8	11
57	Kiloton-scale xenon detectors for neutrinoless double beta decay and other new physics searches. Physical Review D, 2021, 104, .	4.7	11
58	Maximum likelihood analysis of low energy CDMS II germanium data. Physical Review D, 2015, 91, .	4.7	10
59	An optimal energy estimator to reduce correlated noise for the EXO-200 light readout. Journal of Instrumentation, 2016, 11, P07015-P07015.	1.2	9
60	Searches for double beta decay of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Xe} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 134 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ with EXO-200. Physical Review D, 2017, 96, .	4.7	9
61	Reflectivity and PDE of VUV4 Hamamatsu SiPMs in liquid xenon. Journal of Instrumentation, 2020, 15, P01019-P01019.	1.2	9
62	Control and measurement of electric dipole moments in levitated optomechanics. Physical Review A, 2021, 104, .	2.5	9
63	SuperCDMS status from Soudan and plans for SNOLab. , 2013, , .		8
64	Simulation of charge readout with segmented tiles in nEXO. Journal of Instrumentation, 2019, 14, P09020-P09020.	1.2	8
65	Quasiparticle Trapping in Microwave Kinetic Inductance Strip Detectors. AIP Conference Proceedings, 2009, , .	0.4	7
66	Phonon Mediated Microwave Kinetic Inductance Detectors. Journal of Low Temperature Physics, 2012, 167, 329-334.	1.4	7
67	SuperCDMS Detector Fabrication Advances. AIP Conference Proceedings, 2009, , .	0.4	6
68	Measurement of the Spectral Shape of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Decay of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Xe} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 137 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$		6
69	† Study of silicon photomultiplier performance in external electric fields. Journal of Instrumentation, 2018, 13, T09006-T09006.	1.2	5
70	The Cryogenic Dark Matter Search (CDMS) : Present Status and Future. , 2009, , .		4
71	Publisher's Note: Silicon detector results from the first five-tower run of CDMS II [Phys. Rev. D88, 031104(R) (2013)]. Physical Review D, 2013, 88, .	4.7	4
72	A Density Staggered Cantilever for Micron Length Gravity Probing. , 2017, , .		4

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73	Bulk and Surface Charge Collection: CDMS Detector Performance and Design Implications. , 2009, , .		3
74	Particle Detection Using MKID-Based Athermal-Phonon Mediated Detectors. Journal of Low Temperature Physics, 2014, 176, 891-897.	1.4	3
75	SuperCDMS Detector Readout Cryogenic Hardware. , 2009, , .		1
76	Characterization of SuperCDMS 1-inch Ge Detectors. , 2009, , .		1
77	Tests of fundamental physics with optically levitated microspheres in high vacuum. , 2018, , .		1
78	The Cryogenic Dark Matter Search (CDMS) experiment: Results, status and perspective. , 2009, , .		0
79	High-resolution gamma-ray detection using phonon-mediated detectors. , 2012, , .		0
80	Fabrication of large vaterite microspheres for optical trapping and rotation in high vacuum. , 2019, , .		0