Matthew P Green

List of Publications by Year
in descending order

74 papers	2,311 citations	331670 21 h-index	206112 48 g-index
74 all docs	74 docs citations	74 times ranked	1773 citing authors

#	Article	IF	Citations
1	Observation of coherent elastic neutrino-nucleus scattering. Science, 2017, 357, 1123-1126.	12.6	500
2	Search for Neutrinoless Double- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math> Decay in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ge</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mn>76</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> with the Majorana Demonstrator. Physical Review Letters, 2018, 120, 132502.	7.8	162
3	Observation of Two-Neutrino Double-Beta Decay in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Xe</mml:mi><mml:mprescripts /><mml:none /><mml:mn>136</mml:mn></mml:mmultiscripts></mml:math>with the EXO-200 Detector. Physical Review Letters, 2011, 107, 212501.	7.8	159
4	The MAJORANA DEMONSTRATOR Neutrinoless Double-Beta Decay Experiment. Advances in High Energy Physics, 2014, 2014, 1-18.	1.1	158
5	The large enriched germanium experiment for neutrinoless double beta decay (LEGEND). AIP Conference Proceedings, 2017, , .	0.4	126
6	First Measurement of Coherent Elastic Neutrino-Nucleus Scattering on Argon. Physical Review Letters, 2021, 126, 012002.	7.8	117
7	Systematic study of trace radioactive impurities in candidate construction materials for EXO-200. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 490-509.	1.6	114
8	Search for neutrinoless double- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> decay in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ge</mml:mi><mml:mprescripts /><mml:none /><mml:mn>76</mml:mn></mml:mmultiscripts></mml:math> with 26 kgÂyr of exposure from the Majorana Demonstrator. Physical Review C, 2019, 100, .	2.9	88
9	The Majorana Demonstrator radioassay program. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 828, 22-36.	1.6	86
10	New Limits on Bosonic Dark Matter, Solar Axions, Pauli Exclusion Principle Violation, and Electron Decay from the Majorana Demonstrator. Physical Review Letters, 2017, 118, 161801.	7.8	69
11	The PROSPECT physics program. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 113001.	3.6	53
12	Characteristics of signals originating near the lithium-diffused N+ contact of high purity germanium p-type point contact detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 701, 176-185.	1.6	46
13	Characterization of large area APDs for the EXO-200 detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, 68-75.	1.6	40
14	Measurement of airborne fission products in Chapel Hill, NC, USA from the Fukushima Dai-ichi reactor accident. Journal of Environmental Radioactivity, 2012, 112, 165-170.	1.7	35
15	The Majorana Experiment. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 44-46.	0.4	34
16	First Limit on the Direct Detection of Lightly Ionizing Particles for Electric Charge as Low as <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>e</mml:mi><mml:mo>/</mml:mo><mml:mn>1000</mml:mn></mml:math> with the Majorana Demonstrator. Physical Review Letters, 2018, 120, 211804.	7.8	33
17	Sensitivity of the COHERENT experiment to accelerator-produced dark matter. Physical Review D, 2020, 102, .	4.7	28
18	Observation of single collisionally cooled trapped ions in a buffer gas. Physical Review A, 2007, 76, .	2.5	23

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19	Multisite event discrimination for the majorana demonstrator. Physical Review C, 2019, 99, .	2.9	23
20	Background radiation measurements at high power research reactors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 806, 401-419.	1.6	22
21	Muon flux measurements at the davis campus of the sanford underground research facility with the majorana demonstrator veto system. Astroparticle Physics, 2017, 93, 70-75.	4.3	21
22	The processing of enriched germanium for the MajoranaÂDemonstratorÂand R&D for a next generation double-beta decay experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 877, 314-322.	1.6	21
23	First constraint on coherent elastic neutrino-nucleus scattering in argon. Physical Review D, 2019, 100, .	4.7	20
24	The Majorana Demonstrator: A Search for Neutrinoless Double-beta Decay of Germanium-76. Journal of Physics: Conference Series, 2012, 375, 042010.	0.4	19
25	Light collection and pulse-shape discrimination in elongated scintillator cells for the PROSPECT reactor antineutrino experiment. Journal of Instrumentation, 2015, 10, P11004-P11004.	1.2	19
26	The Majorana Demonstrator calibration system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 872, 16-22.	1.6	19
27	A linear RFQ ion trap for the Enriched Xenon Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 399-408.	1.6	17
28	Initial Results from the Majorana Demonstrator. Journal of Physics: Conference Series, 2017, 888, 012035.	0.4	17
29	Prospects for Barium Tagging in Gaseous Xenon. Journal of Physics: Conference Series, 2011, 309, 012005.	0.4	14
30	A magnetically driven piston pump for ultra-clean applications. Review of Scientific Instruments, 2011, 82, 105114.	1.3	14
31	The MAJORANA experiment: an ultra-low background search for neutrinoless double-beta decay. Journal of Physics: Conference Series, 2012, 381, 012044.	0.4	14
32	Search for Pauli exclusion principle violating atomic transitions and electron decay with a p-type point contact germanium detector. European Physical Journal C, 2016, 76, 1.	3.9	14
33	The Majorana Parts Tracking Database. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 779, 52-62.	1.6	13
34	The Majorana Low-noise Low-background Front-end Electronics. Physics Procedia, 2015, 61, 654-657.	1.2	11
35	Search for trinucleon decay in the Majorana Demonstrator. Physical Review D, 2019, 99, .	4.7	11
36	A xenon gas purity monitor for EXO. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 215-228.	1.6	10

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37	A Dark Matter Search with MALBEK. Physics Procedia, 2015, 61, 77-84.	1.2	10
38	Mobility of thorium ions in liquid xenon. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 555, 205-210.	1.6	9
39	Search for double-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>β</mml:mi><mml:mo>−</mml:mo></mml:math> decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ge</mml:mi><mml:mprescripts /><mml:none /><mml:mn>76</mml:mn></mml:mmultiscripts></mml:math> to excited states of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Se</mml:mi>	2.8	9
40	$$alpha $$-event characterization and rejection in point-contact HPGe detectors. European Physical Journal C, 2022, 82, 226.	3.9	9
41	A liquid xenon ionization chamber in an all-fluoropolymer vessel. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 409-420.	1.6	8
42	ADC Nonlinearity Correction for the Majorana Demonstrator. IEEE Transactions on Nuclear Science, 2021, 68, 359-367.	2.0	8
43	The design of an ultra-low background thermosyphon for the Majorana Demonstrator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 709, 17-21.	1.6	7
44	The Majorana Demonstrator: A Search for Neutrinoless Double-beta Decay of76Ge. Journal of Physics: Conference Series, 2015, 606, 012004.	0.4	7
45	High voltage testing for the Majorana Demonstrator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 823, 83-90.	1.6	7
46	A simple radionuclide-driven single-ion source. Review of Scientific Instruments, 2010, 81, 113301.	1.3	6
47	Dark matter sensitivities of the Majorana Demonstrator. Journal of Physics: Conference Series, 2012, 375, 012014.	0.4	6
48	MAJORANA Collaboration's Experience with Germanium Detectors. Journal of Physics: Conference Series, 2015, 606, 012005.	0.4	6
49	Investigation of ASIC-based signal readout electronics for LEGEND-1000. Journal of Instrumentation, 2020, 15, P09022-P09022.	1.2	6
50	Low Background Signal Readout Electronics for the Majorana Demonstrator. Journal of Physics: Conference Series, 2015, 606, 012009.	0.4	5
51	Background Model for the Majorana Demonstrator. Physics Procedia, 2015, 61, 821-827.	1.2	4
52	Testing the Ge Detectors for the MAJORANA DEMONSTRATOR. Physics Procedia, 2015, 61, 807-815.	1.2	4
53	The status and initial results of the Majorana demonstrator experiment. AIP Conference Proceedings, 2017, , .	0.4	4
54	A microfabricated sensor for thin dielectric layers. Review of Scientific Instruments, 2008, 79, 045101.	1.3	3

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55	Low background materials and fabrication techniques for cables and connectors in the Majorana Demonstrator. AIP Conference Proceedings, 2018, , .	0.4	3
56	Recent Results from the Majorana Demonstrator. International Journal of Modern Physics Conference Series, 2018, 46, 1860049.	0.7	3
57	The Majorana Experiment. , 2011, , .		2
58	Status of the Majorana Demonstrator experiment. AIP Conference Proceedings, 2014, , .	0.4	2
59	Status of the Majorana Demonstrator. AIP Conference Proceedings, 2015, , .	0.4	2
60	Contamination control and assay results for the Majorana Demonstrator ultra clean components. AIP Conference Proceedings, 2018, , .	0.4	2
61	Development of a ⁸³mKr source for the calibration of the CENNS-10 liquid argon detector. Journal of Instrumentation, 2021, 16, P04002.	1.2	2
62	The Majorana Demonstrator: A search for neutrinoless double-beta decay of germanium-76. , 2013, , .		1
63	The Majorana Demonstrator: Progress towards showing the feasibility of a tonneâ€“scale⁷⁶Ge neutrinoless doubleâ€“beta decay experiment. Journal of Physics: Conference Series, 2014, 485, 012042.	0.4	1
64	Low background signal readout electronics for the MAJORANA DEMONSTRATOR. AIP Conference Proceedings, 2015, , .	0.4	1
65	The MAJORANA DEMONSTRATOR for 0Î½Î²Î²: Current Status and Future Plans. Physics Procedia, 2015, 61, 232-240.	1.2	1
66	COHERENT Experiment: current status. Journal of Physics: Conference Series, 2017, 798, 012213.	0.4	1
67	The Majorana Demonstrator Status and Preliminary Results. EPJ Web of Conferences, 2018, 178, 01006.	0.3	1
68	Signatures of muonic activation in the Majorana Demonstrator. Physical Review C, 2022, 105, .	2.9	1
69	The Majorana Demonstrator: A search for neutrinoless double-beta decay of germanium-76. , 2012, , .		0
70	Analysis techniques for background rejection at the MAJORANA DEMONSTRATOR. AIP Conference Proceedings, 2015, , .	0.4	0
71	Status of the MAJORANA DEMONSTRATOR: A search for neutrinoless double-beta decay. International Journal of Modern Physics A, 2015, 30, 1530032.	1.5	0
72	Status of the Majorana Demonstrator. Nuclear and Particle Physics Proceedings, 2015, 265-266, 70-72.	0.5	0

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73	THE MAJORANA DOUBLE BETA DECAY EXPERIMENT: PRESENT STATUS. , 2017, , 61-65.		0
74	Status of the MAJORANA DEMONSTRATOR. Physics of Particles and Nuclei, 2017, 48, 27-33.	0.7	0