Keith Rielage

List of Publications by Year
in descending order

90 papers	3,002 citations	279798 23 h-index	161849 54 g-index
92 all docs	92 docs citations	92 times ranked	2197 citing authors

#	Article	IF	Citations
1	Signatures of muonic activation in the Majorana Demonstrator. Physical Review C, 2022, 105, .	2.9	1
2	$$alpha $$-event characterization and rejection in point-contact HPGe detectors. European Physical Journal C, 2022, 82, 226.	3.9	9
3	The Majorana Demonstrator readout electronics system. Journal of Instrumentation, 2022, 17, T05003.	1.2	7
4	Experimental study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>13</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>Î±</mml:mi><mml:mo>,</mml:mo><mml:mi>n</mml:mi><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mn>16</mml:mn></mml:mmultiscripts><mml:mo>)</mml:mo></mml:mrow></mml:math> reaction for the Majorana Demonstrator	2.9	1
5	<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>	2.9	9
6	Prospects for beyond the Standard Model physics searches at the Deep Underground Neutrino Experiment. European Physical Journal C, 2021, 81, 322.	3.9	69
7	The Mini-CAPTAIN liquid argon time projection chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1001, 165131.	1.6	2
8	Large-scale, precision xenon doping of liquid argon. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1011, 165575.	1.6	3
9	Initial results from the Majorana Demonstrator. Journal of Physics: Conference Series, 2020, 1342, 012023.	0.4	0
10	Spectral analysis for the Majorana Demonstrator experiment. Journal of Physics: Conference Series, 2020, 1342, 012026.	0.4	0
11	Progress Toward A 2Î½Î²Î² Measurement For The Majorana Demonstrator. Journal of Physics: Conference Series, 2020, 1342, 012117.	0.4	0
12	Data quality assurance for the Majorana Demonstrator. Journal of Physics: Conference Series, 2020, 1342, 012123.	0.4	0
13	Design improvements to cables and connectors in the Majorana Demonstrator. Journal of Physics: Conference Series, 2020, 1342, 012129.	0.4	0
14	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
15	Multisite event discrimination for the majorana demonstrator. Physical Review C, 2019, 99, .	2.9	23
16	Search for trinucleon decay in the Majorana Demonstrator. Physical Review D, 2019, 99, .	4.7	11
17	Triplet lifetime in gaseous argon. European Physical Journal A, 2019, 55, 1.	2.5	5
18	Cosmogenic neutron production at the Sudbury Neutrino Observatory. Physical Review D, 2019, 100, .	4.7	6

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19	Contamination control and assay results for the Majorana Demonstrator ultra clean components. AIP Conference Proceedings, 2018, , .	0.4	2
20	Low background materials and fabrication techniques for cables and connectors in the Majorana Demonstrator. AIP Conference Proceedings, 2018, , .	0.4	3
21	Search for Neutrinoless Double-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>β</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:mrow><mml:mn>76</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>	7.8	162
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	Recent Results from the Majorana Demonstrator. International Journal of Modern Physics Conference Series, 2018, 46, 1860049.	0.7	3
24	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
25	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
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	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
28	Paschen's law studies in cold gases. Journal of Instrumentation, 2017, 12, P06019-P06019.	1.2	24
29	The status and initial results of the Majorana demonstrator experiment. AIP Conference Proceedings, 2017, , .	0.4	4
30	The large enriched germanium experiment for neutrinoless double beta decay (LEGEND). AIP Conference Proceedings, 2017, , .	0.4	126
31	Initial Results from the Majorana Demonstrator. Journal of Physics: Conference Series, 2017, 888, 012035.	0.4	17
32	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
33	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
34	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
35	A Dark Matter Search with MALBEK. Physics Procedia, 2015, 61, 77-84.	1.2	10
36	Status of the Majorana Demonstrator. AIP Conference Proceedings, 2015, , .	0.4	2

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37	Low background signal readout electronics for the MAJORANA DEMONSTRATOR. AIP Conference Proceedings, 2015, , .	0.4	1
38	Analysis techniques for background rejection at the MAJORANA DEMONSTRATOR. AIP Conference Proceedings, 2015, , .	0.4	0
39	Update on the MiniCLEAN Dark Matter Experiment. Physics Procedia, 2015, 61, 144-152.	1.2	12
40	The MAJORANA DEMONSTRATOR for 0Î½Î²Î²: Current Status and Future Plans. Physics Procedia, 2015, 61, 232-240.	1.2	1
41	Background Model for the Majorana Demonstrator. Physics Procedia, 2015, 61, 821-827.	1.2	4
42	Testing the Ge Detectors for the MAJORANA DEMONSTRATOR. Physics Procedia, 2015, 61, 807-815.	1.2	4
43	The Majorana Demonstrator: A Search for Neutrinoless Double-beta Decay of76Ge. Journal of Physics: Conference Series, 2015, 606, 012004.	0.4	7
44	Low Background Signal Readout Electronics for the Majorana Demonstrator. Journal of Physics: Conference Series, 2015, 606, 012009.	0.4	5
45	Status of the MAJORANA DEMONSTRATOR: A search for neutrinoless double-beta decay. International Journal of Modern Physics A, 2015, 30, 1530032.	1.5	0
46	Improving photoelectron counting and particle identification in scintillation detectors with Bayesian techniques. Astroparticle Physics, 2015, 65, 40-54.	4.3	13
47	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
48	Status of the Majorana Demonstrator. Nuclear and Particle Physics Proceedings, 2015, 265-266, 70-72.	0.5	0
49	MAJORANA Collaboration's Experience with Germanium Detectors. Journal of Physics: Conference Series, 2015, 606, 012005.	0.4	6
50	The Majorana Low-noise Low-background Front-end Electronics. Physics Procedia, 2015, 61, 654-657.	1.2	11
51	Status of the Majorana Demonstrator experiment. AIP Conference Proceedings, 2014, , .	0.4	2
52	The MAJORANA DEMONSTRATOR Neutrinoless Double-Beta Decay Experiment. Advances in High Energy Physics, 2014, 2014, 1-18.	1.1	158
53	A search for astrophysical burst signals at the Sudbury Neutrino Observatory. Astroparticle Physics, 2014, 55, 1-7.	4.3	17
54	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

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55	Measurement of optical attenuation in acrylic light guides for a dark matter detector. Journal of Instrumentation, 2014, 9, P02002-P02002.	1.2	3
56	Combined analysis of all three phases of solar neutrino data from the Sudbury Neutrino Observatory. Physical Review C, 2013, 88, .	2.9	267
57	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
58	Screening materials with the XIA UltraLo alpha particle counter at Southern Methodist University. , 2013, , .		3
59	The Majorana Demonstrator: A search for neutrinoless double-beta decay of germanium-76. , 2013, , .		1
60	Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>e</mml:mi></mml:msub></mml:math>and total<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>8</mml:mn></mml:msup></mml:math>B solar neutrino fluxes with the Sudbury Neutrino Observatory phase-III data set. Physical Review C, 2013, 87, .	2.9	42
61	Photon detection in the Cryogenic Apparatus for Precision Tests of Argon Interactions with Neutrinos (CAPTAIN). Journal of Instrumentation, 2013, 8, C09002-C09002.	1.2	1
62	The Majorana Demonstrator: A search for neutrinoless double-beta decay of germanium-76. , 2012, , .		0
63	Status and prospects of the MiniCLEAN dark matter experiment. , 2012, , .		7
64	Dark matter sensitivities of the Majorana Demonstrator. Journal of Physics: Conference Series, 2012, 375, 012014.	0.4	6
65	The Majorana Demonstrator: A Search for Neutrinoless Double-beta Decay of Germanium-76. Journal of Physics: Conference Series, 2012, 375, 042010.	0.4	19
66	The MAJORANA experiment: an ultra-low background search for neutrinoless double-beta decay. Journal of Physics: Conference Series, 2012, 381, 012044.	0.4	14
67	Full simulation of the Sudbury Neutrino Observatory proportional counters. New Journal of Physics, 2011, 13, 073006.	2.9	6
68	The Majorana Experiment. , 2011, , .		2
69	Astroparticle physics with a customized low-background broad energy Germanium detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 692-695.	1.6	12
70	Fluorescence efficiency and visible re-emission spectrum of tetraphenyl butadiene films at extreme ultraviolet wavelengths. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 116-121.	1.6	71
71	Four methods for determining the composition of trace radioactive surface contamination of low-radioactivity metal. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 182-192.	1.6	4
72	Calibration of muon reconstruction algorithms using an external muon tracking system at the Sudbury Neutrino Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, 92-99.	1.6	1

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73	The Majorana Experiment. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 44-46.	0.4	34
74	LOW-MULTIPLICITY BURST SEARCH AT THE SUDBURY NEUTRINO OBSERVATORY. Astrophysical Journal, 2011, 728, 83.	4.5	15
75	The MAJORANA Project. Journal of Physics: Conference Series, 2010, 203, 012057.	0.4	9
76	SEARCHES FOR HIGH-FREQUENCY VARIATIONS IN THE⁸B SOLAR NEUTRINO FLUX AT THE SUDBURY NEUTRINO OBSERVATORY. Astrophysical Journal, 2010, 710, 540-548.	4.5	24
77	The calibration of the Sudbury Neutrino Observatory using uniformly distributed radioactive sources. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 171-181.	1.6	14
78	Low-energy-threshold analysis of the Phase I and Phase II data sets of the Sudbury Neutrino Observatory. Physical Review C, 2010, 81, .	2.9	196
79	The MAJORANA DEMONSTRATOR: An R&D project towards a tonne-scale germanium neutrinoless double-beta decay search. , 2009, , .		12
80	Measurement of the cosmic ray and neutrino-induced muon flux at the Sudbury neutrino observatory. Physical Review D, 2009, 80, .	4.7	42
81	The MAJORANA Project. Journal of Physics: Conference Series, 2009, 173, 012007.	0.4	16
82	The MAJORANA Neutrinoless Double-Beta Decay Experiment. , 2008, , .		12
83	Independent Measurement of the Total Active<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">B</mml:mi><mml:mprescripts /><mml:none /><mml:mn>8</mml:mn></mml:mmultiscripts></mml:math>Solar Neutrino Flux Using an Array of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts></mml:math>	7.8	262
84	MiniCLEAN-360: A liquid argon/neon dark matter detector. Journal of Physics: Conference Series, 2008, 136, 042086.	0.4	1
85	Determination of theÎ½eand totalB8solar neutrino fluxes using the Sudbury Neutrino Observatory Phase I data set. Physical Review C, 2007, 75, .	2.9	112
86	An array of low-background 3He proportional counters for the Sudbury Neutrino Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 1054-1080.	1.6	50
87	A Search for Neutrinos from the SolarhepReaction and the Diffuse Supernova Neutrino Background with the Sudbury Neutrino Observatory. Astrophysical Journal, 2006, 653, 1545-1551.	4.5	63
88	Electron energy spectra, fluxes, and day-night asymmetries of8B solar neutrinos from measurements with NaCl dissolved in the heavy-water detector at the Sudbury Neutrino Observatory. Physical Review C, 2005, 72, .	2.9	459
89	Sudbury neutrino observatory neutral current detector acquisition software overview. IEEE Transactions on Nuclear Science, 2004, 51, 878-883.	2.0	58
90	Sudbury neutrino observatory neutral current detectors signal readout system. IEEE Transactions on Nuclear Science, 2004, 51, 2227-2230.	2.0	5