

Keith Rielage

List of Publications by Year in descending order

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Version: 2024-02-01

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	Electron energy spectra, fluxes, and day-night asymmetries of ^8B solar neutrinos from measurements with NaCl dissolved in the heavy-water detector at the Sudbury Neutrino Observatory. <i>Physical Review C</i> , 2005, 72, .	2.9	459
2	Combined analysis of all three phases of solar neutrino data from the Sudbury Neutrino Observatory. <i>Physical Review C</i> , 2013, 88, .	2.9	267
3	Search for the Total Active $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mmlmultiscripts} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{B} \langle \text{mml:mmlprescripts} \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mn} \rangle 8 \langle \text{mml:mn} \rangle \langle \text{mml:mmlmultiscripts} \rangle \langle \text{mml:math} \rangle \text{Solar Neutrino Flux Using an Array of} \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mmlmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{He} \langle \text{mml:mi} \rangle \langle \text{mml:mmlprescripts} \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mmlmn} \rangle$ Solar Neutrino Flux Using an Array of ^76Ge	7.8	262
4	Low-energy-threshold analysis of the Phase I and Phase II data sets of the Sudbury Neutrino Observatory. <i>Physical Review C</i> , 2010, 81, .	2.9	196
5	Search for neutrinoless double $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mi} \rangle \hat{1}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{Decay in} \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmlmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Ge} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmlprescripts} \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mmlmrow} \rangle \langle \text{mml:mn} \rangle 76 \langle \text{mml:mn} \rangle \langle \text{mml:mmlmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Decay in ^{76}Ge	2.9	162
6	The MAJORANA DEMONSTRATOR Neutrinoless Double-Beta Decay Experiment. <i>Advances in High Energy Physics</i> , 2014, 2014, 1-18.	1.1	158
7	The large enriched germanium experiment for neutrinoless double beta decay (LEGEND). <i>AIP Conference Proceedings</i> , 2017, .	0.4	126
8	Determination of the $^1\text{B}^{\hat{1}2}$ and total ^8B solar neutrino fluxes using the Sudbury Neutrino Observatory Phase I data set. <i>Physical Review C</i> , 2007, 75, .	2.9	112
9	Search for neutrinoless double $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{1}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{decay in} \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmlmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ge} \langle \text{mml:mi} \rangle \langle \text{mml:mmlprescripts} \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mn} \rangle 76 \langle \text{mml:mn} \rangle \langle \text{mml:mmlmultiscripts} \rangle \langle \text{mml:math} \rangle$ decay in ^{76}Ge with 26 keVyr of exposure	2.9	88
10	From the Majorana Demonstrator , <i>Physical Review C</i> , 2019, 100		
10	The Majorana Demonstrator radioassay program. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 828, 22-36.	1.6	86
11	Fluorescence efficiency and visible re-emission spectrum of tetraphenyl butadiene films at extreme ultraviolet wavelengths. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 654, 116-121.	1.6	71
12	New Limits on Bosonic Dark Matter, Solar Axions, Pauli Exclusion Principle Violation, and Electron Decay from the Majorana Demonstrator. <i>Physical Review Letters</i> , 2017, 118, 161801.	7.8	69
13	Prospects for beyond the Standard Model physics searches at the Deep Underground Neutrino Experiment. <i>European Physical Journal C</i> , 2021, 81, 322.	3.9	69
14	A Search for Neutrinos from the SolarhepReaction and the Diffuse Supernova Neutrino Background with the Sudbury Neutrino Observatory. <i>Astrophysical Journal</i> , 2006, 653, 1545-1551.	4.5	63
15	Sudbury neutrino observatory neutral current detector acquisition software overview. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 878-883.	2.0	58
16	An array of low-background ^3He proportional counters for the Sudbury Neutrino Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 579, 1054-1080.	1.6	50
17	Characteristics of signals originating near the lithium-diffused N^+ contact of high purity germanium p-type point contact detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 701, 176-185.	1.6	46
18	Measurement of the cosmic ray and neutrino-induced muon flux at the Sudbury neutrino observatory. <i>Physical Review D</i> , 2009, 80, .	4.7	42

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19	Measurement of the $\langle \nu_{\mu} \nu_{\mu} \rangle$ and total ν_{μ} fluxes with the Sudbury Neutrino Observatory phase III data set. <i>Physical Review C</i> , 2013, 87, .	2.9	42
20	The Majorana Experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2011, 217, 44-46.	0.4	34
21	First Limit on the Direct Detection of Lightly Ionizing Particles for Electric Charge as Low as e with the Majorana Demonstrator. <i>Physical Review Letters</i> , 2018, 120, 211804.	7.8	33
22	SEARCHES FOR HIGH-FREQUENCY VARIATIONS IN THE ^8B SOLAR NEUTRINO FLUX AT THE SUDBURY NEUTRINO OBSERVATORY. <i>Astrophysical Journal</i> , 2010, 710, 540-548.	4.5	24
23	Paschen's law studies in cold gases. <i>Journal of Instrumentation</i> , 2017, 12, P06019-P06019.	1.2	24
24	Multisite event discrimination for the majorana demonstrator. <i>Physical Review C</i> , 2019, 99, .	2.9	23
25	Muon flux measurements at the davis campus of the sanford underground research facility with the majorana demonstrator veto system. <i>Astroparticle Physics</i> , 2017, 93, 70-75.	4.3	21
26	The processing of enriched germanium for the Majorana Demonstrator and R&D for a next generation double-beta decay experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 877, 314-322.	1.6	21
27	The Majorana Demonstrator: A Search for Neutrinoless Double-beta Decay of Germanium-76. <i>Journal of Physics: Conference Series</i> , 2012, 375, 042010.	0.4	19
28	The Majorana Demonstrator calibration system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 872, 16-22.	1.6	19
29	A search for astrophysical burst signals at the Sudbury Neutrino Observatory. <i>Astroparticle Physics</i> , 2014, 55, 1-7.	4.3	17
30	Initial Results from the Majorana Demonstrator. <i>Journal of Physics: Conference Series</i> , 2017, 888, 012035.	0.4	17
31	The MAJORANA Project. <i>Journal of Physics: Conference Series</i> , 2009, 173, 012007.	0.4	16
32	LOW-MULTIPLICITY BURST SEARCH AT THE SUDBURY NEUTRINO OBSERVATORY. <i>Astrophysical Journal</i> , 2011, 728, 83.	4.5	15
33	The calibration of the Sudbury Neutrino Observatory using uniformly distributed radioactive sources. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 620, 171-181.	1.6	14
34	The MAJORANA experiment: an ultra-low background search for neutrinoless double-beta decay. <i>Journal of Physics: Conference Series</i> , 2012, 381, 012044.	0.4	14
35	Search for Pauli exclusion principle violating atomic transitions and electron decay with a p-type point contact germanium detector. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	14
36	Improving photoelectron counting and particle identification in scintillation detectors with Bayesian techniques. <i>Astroparticle Physics</i> , 2015, 65, 40-54.	4.3	13

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37	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
38	The MAJORANA Neutrinoless Double-Beta Decay Experiment. , 2008, , .		12
39	The MAJORANA DEMONSTRATOR: An R&D project towards a tonne-scale germanium neutrinoless double-beta decay search. , 2009, , .		12
40	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
41	Update on the MiniCLEAN Dark Matter Experiment. Physics Procedia, 2015, 61, 144-152.	1.2	12
42	The Majorana Low-noise Low-background Front-end Electronics. Physics Procedia, 2015, 61, 654-657.	1.2	11
43	Search for trinucleon decay in the Majorana Demonstrator. Physical Review D, 2019, 99, .	4.7	11
44	A Dark Matter Search with MALBEK. Physics Procedia, 2015, 61, 77-84.	1.2	10
45	The MAJORANA Project. Journal of Physics: Conference Series, 2010, 203, 012057.	0.4	9
46	Search for double- β decay of ^{76}Ge to excited states of ^{76}Se .	2.5	9
47	α -event characterization and rejection in point-contact HPGe detectors. European Physical Journal C, 2022, 82, 226.	3.9	9
48	Status and prospects of the MiniCLEAN dark matter experiment. , 2012, , .		7
49	The Majorana Demonstrator: A Search for Neutrinoless Double-beta Decay of ^{76}Ge . Journal of Physics: Conference Series, 2015, 606, 012004.	0.4	7
50	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
51	The Majorana Demonstrator readout electronics system. Journal of Instrumentation, 2022, 17, T05003.	1.2	7
52	Full simulation of the Sudbury Neutrino Observatory proportional counters. New Journal of Physics, 2011, 13, 073006.	2.9	6
53	Dark matter sensitivities of the Majorana Demonstrator. Journal of Physics: Conference Series, 2012, 375, 012014.	0.4	6
54	MAJORANA Collaboration's Experience with Germanium Detectors. Journal of Physics: Conference Series, 2015, 606, 012005.	0.4	6

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55	Cosmogenic neutron production at the Sudbury Neutrino Observatory. <i>Physical Review D</i> , 2019, 100, .	4.7	6
56	Sudbury neutrino observatory neutral current detectors signal readout system. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 2227-2230.	2.0	5
57	Low Background Signal Readout Electronics for the Majorana Demonstrator. <i>Journal of Physics: Conference Series</i> , 2015, 606, 012009.	0.4	5
58	Triplet lifetime in gaseous argon. <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	5
59	Four methods for determining the composition of trace radioactive surface contamination of low-radioactivity metal. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 659, 182-192.	1.6	4
60	Background Model for the Majorana Demonstrator. <i>Physics Procedia</i> , 2015, 61, 821-827.	1.2	4
61	Testing the Ge Detectors for the MAJORANA DEMONSTRATOR. <i>Physics Procedia</i> , 2015, 61, 807-815.	1.2	4
62	The status and initial results of the Majorana demonstrator experiment. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
63	Screening materials with the XIA UltraLo alpha particle counter at Southern Methodist University. , 2013, , .		3
64	Measurement of optical attenuation in acrylic light guides for a dark matter detector. <i>Journal of Instrumentation</i> , 2014, 9, P02002-P02002.	1.2	3
65	Low background materials and fabrication techniques for cables and connectors in the Majorana Demonstrator. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
66	Recent Results from the Majorana Demonstrator. <i>International Journal of Modern Physics Conference Series</i> , 2018, 46, 1860049.	0.7	3
67	Large-scale, precision xenon doping of liquid argon. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 1011, 165575.	1.6	3
68	The Majorana Experiment. , 2011, , .		2
69	Status of the Majorana Demonstrator experiment. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	2
70	Status of the Majorana Demonstrator. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	2
71	Contamination control and assay results for the Majorana Demonstrator ultra clean components. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
72	The Mini-CAPTAIN liquid argon time projection chamber. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 1001, 165131.	1.6	2

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73	MiniCLEAN-360: A liquid argon/neon dark matter detector. Journal of Physics: Conference Series, 2008, 136, 042086.	0.4	1
74	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
75	The Majorana Demonstrator: A search for neutrinoless double-beta decay of germanium-76. , 2013, , .		1
76	The Majorana Demonstrator: Progress towards showing the feasibility of a tonne-scale ^{76}Ge neutrinoless double-beta decay experiment. Journal of Physics: Conference Series, 2014, 485, 012042.	0.4	1
77	Low background signal readout electronics for the MAJORANA DEMONSTRATOR. AIP Conference Proceedings, 2015, , .	0.4	1
78	The MAJORANA DEMONSTRATOR for $0\nu\beta\beta$: Current Status and Future Plans. Physics Procedia, 2015, 61, 232-240.	1.2	1
79	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
80	Signatures of muonic activation in the Majorana Demonstrator. Physical Review C, 2022, 105, .	2.9	1
81	Experimental study of ^{13}C reactions in the Majorana Demonstrator. Journal of Instrumentation, 2016, 11, P06002.		
82	The Majorana Demonstrator: A search for neutrinoless double-beta decay of germanium-76. , 2012, , .		0
83	Analysis techniques for background rejection at the MAJORANA DEMONSTRATOR. AIP Conference Proceedings, 2015, , .	0.4	0
84	Status of the MAJORANA DEMONSTRATOR: A search for neutrinoless double-beta decay. International Journal of Modern Physics A, 2015, 30, 1530032.	1.5	0
85	Status of the Majorana Demonstrator. Nuclear and Particle Physics Proceedings, 2015, 265-266, 70-72.	0.5	0
86	Initial results from the Majorana Demonstrator. Journal of Physics: Conference Series, 2020, 1342, 012023.	0.4	0
87	Spectral analysis for the Majorana Demonstrator experiment. Journal of Physics: Conference Series, 2020, 1342, 012026.	0.4	0
88	Progress Toward A $2\nu\beta\beta$ Measurement For The Majorana Demonstrator. Journal of Physics: Conference Series, 2020, 1342, 012117.	0.4	0
89	Data quality assurance for the Majorana Demonstrator. Journal of Physics: Conference Series, 2020, 1342, 012123.	0.4	0
90	Design improvements to cables and connectors in the Majorana Demonstrator. Journal of Physics: Conference Series, 2020, 1342, 012129.	0.4	0