

# Kate Scholberg

## List of Publications by Year in descending order

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80  
papers

17,818  
citations

126708

33  
h-index

85405

71  
g-index

80  
all docs

80  
docs citations

80  
times ranked

14912  
citing authors

#	ARTICLE	IF	CITATIONS
1	SNEWPY: A Data Pipeline from Supernova Simulations to Neutrino Signals. <i>Astrophysical Journal</i> , 2022, 925, 107.	1.6	10
2	Status and perspectives of neutrino physics. <i>Progress in Particle and Nuclear Physics</i> , 2022, 124, 103947.	5.6	31
3	Monitoring the SNS basement neutron background with the MARS detector. <i>Journal of Instrumentation</i> , 2022, 17, P03021.	0.5	2
4	Applications and Techniques for Fast Machine Learning in Science. <i>Frontiers in Big Data</i> , 2022, 5, 787421.	1.8	20
5	First Measurement of Coherent Elastic Neutrino-Nucleus Scattering on Argon. <i>Physical Review Letters</i> , 2021, 126, 012002.	2.9	117
6	SNEWS 2.0: a next-generation supernova early warning system for multi-messenger astronomy. <i>New Journal of Physics</i> , 2021, 23, 031201.	1.2	50
7	Development of a $^{83}\text{mKr}$ source for the calibration of the CENNS-10 liquid argon detector. <i>Journal of Instrumentation</i> , 2021, 16, P04002.	0.5	2
8	Prospects for beyond the Standard Model physics searches at the Deep Underground Neutrino Experiment. <i>European Physical Journal C</i> , 2021, 81, 322.	1.4	69
9	Supernova neutrino burst detection with the Deep Underground Neutrino Experiment. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	62
10	Search for tens of MeV neutrinos associated with gamma-ray bursts in Super-Kamiokande. <i>Progress of Theoretical and Experimental Physics</i> , 2021, 2021, .	1.8	1
11	A $D_{2O}$ detector for flux normalization of a pion decay-at-rest neutrino source. <i>Journal of Instrumentation</i> , 2021, 16, P08048.	0.5	8
12	Search for Neutrinos in Coincidence with Gravitational Wave Events from the LIGO“Virgo O3a Observing Run with the Super-Kamiokande Detector. <i>Astrophysical Journal</i> , 2021, 918, 78.	1.6	9
13	SNEWPY: A Data Pipeline from Supernova Simulations to Neutrino Signals. <i>Journal of Open Source Software</i> , 2021, 6, 3772.	2.0	13
14	The Supernova Early Warning System. <i>Nature Reviews Physics</i> , 2020, 2, 458-460.	11.9	1
15	Coherent Elastic Neutrino-Nucleus Scattering. <i>Journal of Physics: Conference Series</i> , 2020, 1468, 012126.	0.3	4
16	Review of Particle Physics. <i>Progress of Theoretical and Experimental Physics</i> , 2020, 2020, .	1.8	3,177
17	Measurement of the charged-current electron (anti-)neutrino inclusive cross-sections at the T2K off-axis near detector ND280. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	14
18	Sensitivity of the COHERENT experiment to accelerator-produced dark matter. <i>Physical Review D</i> , 2020, 102, .	1.6	28

#	ARTICLE	IF	CITATIONS
19	New opportunities at the next-generation neutrino experiments I: BSM neutrino physics and dark matter. Reports on Progress in Physics, 2020, 83, 124201. Search for proton decay via $\langle m \rangle$	8.1	49
20	and $\langle m \rangle$	1.6	48
21	First constraint on coherent elastic neutrino-nucleus scattering in argon. Physical Review D, 2019, 100, .	1.6	20
22	Triangulation pointing to core-collapse supernovae with next-generation neutrino detectors. Physical Review D, 2019, 100, .	1.6	17
23	Supernova signatures of neutrino mass ordering. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 014002. Search for $C$	1.4	41
24	Antineutrino Oscillations by the T2K Experiment with $P$	2.9	165
25	Protons on Target. Physical Review Letters, 2018, 121, 171802. Search for Boosted Dark Matter Interacting with Electrons in Super-Kamiokande. Physical Review Letters, 2018, 120, 221301.	2.9	49
26	Review of Particle Physics. Physical Review D, 2018, 98, .	1.6	5,390
27	Neutrinos from Supernovae and Other Astrophysical Sources. Advanced Series on Directions in High Energy Physics, 2018, , 299-324.	0.7	2
28	Neutrinos from type Ia supernovae: The gravitationally confined detonation scenario. Physical Review D, 2017, 95, .	1.6	18
29	Observation of coherent elastic neutrino-nucleus scattering. Science, 2017, 357, 1123-1126.	6.0	500
30	Combined Analysis of Neutrino and Antineutrino Oscillations at T2K. Physical Review Letters, 2017, 118, 151801.	2.9	146
31	Neutrinos from Core-Collapse Supernovae and Their Detection. , 2017, , 1655-1670.		1
32	COHERENT Experiment: current status. Journal of Physics: Conference Series, 2017, 798, 012213.	0.3	1
33	Neutrino Oscillation Experiments. , 2017, , .		0
34	Neutrinos from type Ia supernovae: The deflagration-to-detonation transition scenario. Physical Review D, 2016, 94, .	1.6	21
35	Measurements of the atmospheric neutrino flux by Super-Kamiokande: Energy spectra, geomagnetic effects, and solar modulation. Physical Review D, 2016, 94, .	1.6	73
36	Measurement of Muon Antineutrino Oscillations with an Accelerator-Produced Off-Axis Beam. Physical Review Letters, 2016, 116, 181801.	2.9	31

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37	Supernova Neutrino Detection. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1897-1901.	0.2	1
38	Measurement of Coherent $\bar{\nu}_e$ Production in Low Energy Neutrino-Carbon Scattering. Physical Review Letters, 2016, 117, 192501.	2.9	19
39	Real-time supernova neutrino burst monitor at Super-Kamiokande. Astroparticle Physics, 2016, 81, 39-48.	1.9	65
40	Neutrinos from Core-Collapse Supernovae and Their Detection. , 2016, , 1-16.		0
41	Cross Section Measurements for Supernova Neutrinos. , 2016, , .		0
42	Search for Nucleon and Dinucleon Decays with an Invisible Particle and a Charged Lepton in the Final State at the Super-Kamiokande Experiment. Physical Review Letters, 2015, 115, 121803.	2.9	26
43	Supernova neutrino detection. AIP Conference Proceedings, 2015, , .	0.3	3
44	Search for Neutrinos from Annihilation of Captured Low-Mass Dark Matter Particles in the Sun by Super-Kamiokande. Physical Review Letters, 2015, 114, 141301.	2.9	192
45	Measurement of the Inclusive Electron Neutrino Charged Current Cross Section on Carbon with the T2K Near Detector. Physical Review Letters, 2014, 113, 241803.	2.9	44
46	Comment on "Fitting the Annual Modulation in DAMA with Neutrons from Muons and Neutrinos". Physical Review Letters, 2014, 113, 229001.	2.9	10
47	Search for Nucleon Decay via $\bar{\nu}_e$ Production. Physical Review Letters, 2014, 112, 131803.	2.9	19
48	A method for measuring coherent elastic neutrino-nucleus scattering at a far off-axis high-energy neutrino beam target. Physical Review D, 2014, 89, .	1.6	34
49	Search for Dinucleon Decay into Kaons in Super-Kamiokande. Physical Review Letters, 2014, 112, 131803.	2.9	24
51	First Indication of Terrestrial Matter Effects on Solar Neutrino Oscillation. Physical Review Letters, 2014, 112, 091805.	2.9	76
52	Neutrino-KAVE: An immersive visualization and fitting tool for neutrino physics education. , 2014, , .		8
53	Large Underground Detectors for Proton Decay and Neutrino Physics. , 2013, , 311-342.		0
54	PROSPECTS FOR USING COHERENT ELASTIC NEUTRINO-NUCLEUS SCATTERING TO MEASURE THE NUCLEAR NEUTRON FORM FACTOR. International Journal of Modern Physics E, 2013, 22, 1330013.	0.4	10

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55	Measuring active-to-sterile neutrino oscillations with neutral current coherent neutrino-nucleus scattering. <i>Physical Review D</i> , 2012, 86, .	1.6	52
56	Supernova relic neutrino search at super-Kamiokande. <i>Physical Review D</i> , 2012, 85, .	1.6	146
57	Prospects for Measuring Neutrino–Nucleus Coherent Scattering with a Stopped-Pion Neutrino Source. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2012, 229-232, 505.	0.5	1
58	Supernova Neutrino Detection. <i>Annual Review of Nuclear and Particle Science</i> , 2012, 62, 81-103.	3.5	239
59	Study of nonstandard neutrino interactions with atmospheric neutrino data in Super-Kamiokande I and II. <i>Physical Review D</i> , 2011, 84, .	1.6	72
60	Supernova Neutrino Detection in Water Cherenkov Detectors. <i>Journal of Physics: Conference Series</i> , 2011, 309, 012028.	0.3	5
61	Prospects for Measuring Neutrino-Nucleus Coherent Scattering at a Stopped-Pion Neutrino Source. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2011, 221, 395.	0.5	0
62	Coherent neutrino scattering in dark matter detectors. <i>Physical Review D</i> , 2011, 84, .	1.6	33
63	Obtaining supernova directional information using the neutrino matter oscillation pattern. <i>Physical Review D</i> , 2010, 81, .	1.6	10
64	Searching for prompt signatures of nearby core-collapse supernovae by a joint analysis of neutrino and gravitational wave data. <i>Classical and Quantum Gravity</i> , 2010, 27, 084019.	1.5	28
65	Experimentation of Neutrino Physics. , 2010, , .		0
66	SEARCH FOR NEUTRINOS FROM GRB 080319B AT SUPER-KAMIOKANDE. <i>Astrophysical Journal</i> , 2009, 697, 730-734.	1.6	8
67	The SuperNova Early Warning System. <i>Astronomische Nachrichten</i> , 2008, 329, 337-339.	0.6	31
68	HALO – the helium and lead observatory for supernova neutrinos. <i>Journal of Physics: Conference Series</i> , 2008, 136, 042077.	0.3	41
69	CLEAR: Prospects for a low threshold neutrino experiment at the Spallation Neutron Source. <i>Journal of Physics: Conference Series</i> , 2008, 136, 042044.	0.3	2
70	Search for Supernova Neutrino Bursts at Super–Kamiokande. <i>Astrophysical Journal</i> , 2007, 669, 519-524.	1.6	138
71	Solar neutrino measurements in Super-Kamiokande-I. <i>Physical Review D</i> , 2006, 73, .	1.6	390
72	Prospects for measuring coherent neutrino-nucleus elastic scattering at a stopped-pion neutrino source. <i>Physical Review D</i> , 2006, 73, .	1.6	163

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73	Measurement of atmospheric neutrino oscillation parameters by Super-Kamiokande I. Physical Review D, 2005, 71, .	1.6	640
74	Limits on the Neutrino Magnetic Moment using 1496 Days of Super-Kamiokande-I Solar Neutrino Data. Physical Review Letters, 2004, 93, 021802.	2.9	59
75	SNEWS: the SuperNova Early Warning System. New Journal of Physics, 2004, 6, 114-114.	1.2	185
76	Evidence for an Oscillatory Signature in Atmospheric Neutrino Oscillations. Physical Review Letters, 2004, 93, 101801.	2.9	538
77	Search for Supernova Relic Neutrinos at Super-Kamiokande. Physical Review Letters, 2003, 90, 061101.	2.9	181
78	Real time supernova neutrino burst detection with MACRO. Astroparticle Physics, 1998, 8, 123-133.	1.9	17
79	Evidence for Oscillation of Atmospheric Neutrinos. Physical Review Letters, 1998, 81, 1562-1567.	2.9	4,064
80	Probing the Skin of a Lead Nucleus. Physics Magazine, 0, 14, .	0.1	1