Kate Scholberg

List of Publications by Year
in descending order

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80	17,818	126858	85498
papers	citations	33 h-index	71 g-index

80	80	80	14912
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review of Particle Physics. Physical Review D, 2018, 98, .	1.6	5,390
2	Evidence for Oscillation of Atmospheric Neutrinos. Physical Review Letters, 1998, 81, 1562-1567.	2.9	4,064
3	Review of Particle Physics. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	3,177
4	Measurement of atmospheric neutrino oscillation parameters by Super-Kamiokande I. Physical Review D, 2005, 71, .	1.6	640
5	Evidence for an Oscillatory Signature in Atmospheric Neutrino Oscillations. Physical Review Letters, 2004, 93, 101801.	2.9	538
6	Observation of coherent elastic neutrino-nucleus scattering. Science, 2017, 357, 1123-1126.	6.0	500
7	Solar neutrino measurements in Super-Kamiokande-I. Physical Review D, 2006, 73, .	1.6	390
8	Supernova Neutrino Detection. Annual Review of Nuclear and Particle Science, 2012, 62, 81-103.	3.5	239
9	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
10	SNEWS: the SuperNova Early Warning System. New Journal of Physics, 2004, 6, 114-114.	1.2	185
11	Search for Supernova Relic Neutrinos at Super-Kamiokande. Physical Review Letters, 2003, 90, 061101.	2.9	181
12	Search for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math> Violation in Neutrino and Antineutrino Oscillations by the T2K Experiment with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2.2</mml:mn><mml:mo>Ã—</mml:mo><mml:msup><mml:mn>10</mml:mn><mml:mn>21</mml:mn></mml:msup></mml:math> Protons on Target. Physical Review Letters, 2018, 121, 171802.	2.9	165
13	Prospects for measuring coherent neutrino-nucleus elastic scattering at a stopped-pion neutrino source. Physical Review D, 2006, 73, .	1.6	163
14	Supernova relic neutrino search at super-Kamiokande. Physical Review D, 2012, 85, .	1.6	146
15	Combined Analysis of Neutrino and Antineutrino Oscillations at T2K. Physical Review Letters, 2017, 118, 151801.	2.9	146
16	Search for Supernova Neutrino Bursts at Superâ€Kamiokande. Astrophysical Journal, 2007, 669, 519-524.	1.6	138
17	First Measurement of Coherent Elastic Neutrino-Nucleus Scattering on Argon. Physical Review Letters, 2021, 126, 012002.	2.9	117
18	First Indication of Terrestrial Matter Effects on Solar Neutrino Oscillation. Physical Review Letters, 2014, 112, 091805.	2.9	76

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19	Measurements of the atmospheric neutrino flux by Super-Kamiokande: Energy spectra, geomagnetic effects, and solar modulation. Physical Review D, 2016, 94, .	1.6	73
20	Study of nonstandard neutrino interactions with atmospheric neutrino data in Super-Kamiokande I and II. Physical Review D, 2011, 84, .	1.6	72
21	Prospects for beyond the Standard Model physics searches at the Deep Underground Neutrino Experiment. European Physical Journal C, 2021, 81, 322.	1.4	69
22	Real-time supernova neutrino burst monitor at Super-Kamiokande. Astroparticle Physics, 2016, 81, 39-48.	1.9	65
23	Supernova neutrino burst detection with the Deep Underground Neutrino Experiment. European Physical Journal C, 2021, 81, 1.	1.4	62
24	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
25	Measuring active-to-sterile neutrino oscillations with neutral current coherent neutrino-nucleus scattering. Physical Review D, 2012, 86, .	1.6	52
26	SNEWS 2.0: a next-generation supernova early warning system for multi-messenger astronomy. New Journal of Physics, 2021, 23, 031201.	1.2	50
27	Search for Boosted Dark Matter Interacting with Electrons in Super-Kamiokande. Physical Review Letters, 2018, 120, 221301.	2.9	49
28	New opportunities at the next-generation neutrino experiments I: BSM neutrino physics and dark matter. Reports on Progress in Physics, 2020, 83, 124201.	8.1	49
29	Search for Nucleon Decay via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi><mml:mo stretchy="false">â†</mml:mo><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo stretchy="false">Â¯</mml:mo></mml:mover><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math>	2.9	48
30	Search for proton decay via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:msup><mml:mi>Î¼</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math>	1.6	48
31	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
32	HALO â€“ the helium and lead observatory for supernova neutrinos. Journal of Physics: Conference Series, 2008, 136, 042077.	0.3	41
33	Supernova signatures of neutrino mass ordering. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 014002.	1.4	41
34	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
35	Coherent neutrino scattering in dark matter detectors. Physical Review D, 2011, 84, .	1.6	33
36	The SuperNova Early Warning System. Astronomische Nachrichten, 2008, 329, 337-339.	0.6	31

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37	Measurement of Muon Antineutrino Oscillations with an Accelerator-Produced Off-Axis Beam. Physical Review Letters, 2016, 116, 181801.	2.9	31
38	Status and perspectives of neutrino physics. Progress in Particle and Nuclear Physics, 2022, 124, 103947.	5.6	31
39	Searching for prompt signatures of nearby core-collapse supernovae by a joint analysis of neutrino and gravitational wave data. Classical and Quantum Gravity, 2010, 27, 084019.	1.5	28
40	Sensitivity of the COHERENT experiment to accelerator-produced dark matter. Physical Review D, 2020, 102, .	1.6	28
41	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
42	Search for Dinucleon Decay into Kaons in Super-Kamiokande. Physical Review Letters, 2014, 112, 131803.	2.9	24
43	Measurement of Coherent <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Ï€</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mrow> Production in Low Energy Neutrino-Carbon Scattering. Physical Review Letters, 2016, 117, 192501.	2.9	24
44	Neutrinos from type Ia supernovae: The deflagration-to-detonation transition scenario. Physical Review D, 2016, 94, .	1.6	21
45	First constraint on coherent elastic neutrino-nucleus scattering in argon. Physical Review D, 2019, 100, .	1.6	20
46	Applications and Techniques for Fast Machine Learning in Science. Frontiers in Big Data, 2022, 5, 787421.	1.8	20
47	Search for Trilepton Nucleon Decay via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:mi>Î½</mml:mi><mml:mi xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:msup><mml:mi>Î¼</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:mi>Î½</mml:mi> the Su. Physical Review Letters, 2014, 113, 101801.	2.9	19
48	Neutrinos from type Ia supernovae: The gravitationally confined detonation scenario. Physical Review D, 2017, 95, .	1.6	18
49	Real time supernova neutrino burst detection with MACRO. Astroparticle Physics, 1998, 8, 123-133.	1.9	17
50	Triangulation pointing to core-collapse supernovae with next-generation neutrino detectors. Physical Review D, 2019, 100, .	1.6	17
51	Measurement of the charged-current electron (anti-)neutrino inclusive cross-sections at the T2K off-axis near detector ND280. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
52	SNEWPY: A Data Pipeline from Supernova Simulations to Neutrino Signals. Journal of Open Source Software, 2021, 6, 3772.	2.0	13
53	Obtaining supernova directional information using the neutrino matter oscillation pattern. Physical Review D, 2010, 81, .	1.6	10
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	Comment on â€œFitting the Annual Modulation in DAMA with Neutrons from Muons and Neutrinosâ€. Physical Review Letters, 2014, 113, 229001.	2.9	10
56	SNEWPY: A Data Pipeline from Supernova Simulations to Neutrino Signals. Astrophysical Journal, 2022, 925, 107.	1.6	10
57	Search for Neutrinos in Coincidence with Gravitational Wave Events from the LIGOâ€“Virgo O3a Observing Run with the Super-Kamiokande Detector. Astrophysical Journal, 2021, 918, 78.	1.6	9
58	SEARCH FOR NEUTRINOS FROM GRB 080319B AT SUPER-KAMIOKANDE. Astrophysical Journal, 2009, 697, 730-734.	1.6	8
59	Neutrino-KAVE: An immersive visualization and fitting tool for neutrino physics education. , 2014, , .		8
60	A D₂O detector for flux normalization of a pion decay-at-rest neutrino source. Journal of Instrumentation, 2021, 16, P08048.	0.5	8
61	Supernova Neutrino Detection in Water Cherenkov Detectors. Journal of Physics: Conference Series, 2011, 309, 012028.	0.3	5
62	Coherent Elastic Neutrino-Nucleus Scattering. Journal of Physics: Conference Series, 2020, 1468, 012126.	0.3	4
63	Supernova neutrino detection. AIP Conference Proceedings, 2015, , .	0.3	3
64	CLEAR: Prospects for a low threshold neutrino experiment at the Spallation Neutron Source. Journal of Physics: Conference Series, 2008, 136, 042044.	0.3	2
65	Development of a ⁸³mKr source for the calibration of the CENNS-10 liquid argon detector. Journal of Instrumentation, 2021, 16, P04002.	0.5	2
66	Neutrinos from Supernovae and Other Astrophysical Sources. Advanced Series on Directions in High Energy Physics, 2018, , 299-324.	0.7	2
67	Monitoring the SNS basement neutron background with the MARS detector. Journal of Instrumentation, 2022, 17, P03021.	0.5	2
68	Prospects for Measuring Neutrinoâ€“Nucleus Coherent Scattering with a Stopped-Pion Neutrino Source. Nuclear Physics, Section B, Proceedings Supplements, 2012, 229-232, 505.	0.5	1
69	Supernova Neutrino Detection. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1897-1901.	0.2	1
70	Neutrinos from Core-Collapse Supernovae and Their Detection. , 2017, , 1655-1670.		1
71	COHERENT Experiment: current status. Journal of Physics: Conference Series, 2017, 798, 012213.	0.3	1
72	The Supernova Early Warning System. Nature Reviews Physics, 2020, 2, 458-460.	11.9	1

#	Article	IF	Citations
73	Probing the Skin of a Lead Nucleus. Physics Magazine, 0, 14, .	0.1	1
74	Search for tens of MeV neutrinos associated with gamma-ray bursts in Super-Kamiokande. Progress of Theoretical and Experimental Physics, 2021, 2021, .	1.8	1
75	Prospects for Measuring Neutrino-Nucleus Coherent Scattering at a Stopped-Pion Neutrino Source. Nuclear Physics, Section B, Proceedings Supplements, 2011, 221, 395.	0.5	0
76	Large Underground Detectors for Proton Decay and Neutrino Physics. , 2013, , 311-342.		0
77	Experimentation of Neutrino Physics. , 2010, , .		0
78	Neutrinos from Core-Collapse Supernovae and Their Detection. , 2016, , 1-16.		0
79	Cross Section Measurements for Supernova Neutrinos. , 2016, , .		0
80	Neutrino Oscillation Experiments. , 2017, , .		0