

Christopher Hv Wiebusch

List of Publications by Year in descending order

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263
papers

24,110
citations

10389

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151
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271
all docs

271
docs citations

271
times ranked

13604
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-messenger Observations of a Binary Neutron Star Merger [*] . Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
2	Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector. Science, 2013, 342, 1242856.	12.6	1,048
3	Indication of Reactor $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:msub}> \langle \text{mml:mover accent="true"> \langle \text{mml:mi}> \hat{1}/2 </\text{mml:mi}> \langle \text{mml:mo}> \hat{-} </\text{mml:mo}> </\text{mml:mover}> \langle \text{mml:mi}> e </\text{mml:mi}> </\text{mml:msub}> </\text{mml:math}>$ Disappears in the Double Chooz Experiment. Physical Review Letters, 2012, 108, 131801.	7.8	879
4	Observation of High-Energy Astrophysical Neutrinos in Three Years of IceCube Data. Physical Review Letters, 2014, 113, 101101.	7.8	873
5	Neutrino physics with JUNO. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 030401.	3.6	750
6	Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. Science, 2018, 361, .	12.6	654
7	Properties and performance of the prototype instrument for the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 523, 50-95.	1.6	647
8	Neutrino emission from the direction of the blazar TXS 0506+056 prior to the IceCube-170922A alert. Science, 2018, 361, 147-151.	12.6	601
9	First Observation of PeV-Energy Neutrinos with IceCube. Physical Review Letters, 2013, 111, 021103.	7.8	578
10	The Pierre Auger Cosmic Ray Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 798, 172-213.	1.6	442
11	The IceCube Neutrino Observatory: instrumentation and online systems. Journal of Instrumentation, 2017, 12, P03012-P03012.	1.2	390
12	First year performance of the IceCube neutrino telescope. Astroparticle Physics, 2006, 26, 155-173.	4.3	379
13	Sensitivity of the IceCube detector to astrophysical sources of high energy muon neutrinos. Astroparticle Physics, 2004, 20, 507-532.	4.3	341
14	A COMBINED MAXIMUM-LIKELIHOOD ANALYSIS OF THE HIGH-ENERGY ASTROPHYSICAL NEUTRINO FLUX MEASURED WITH ICECUBE. Astrophysical Journal, 2015, 809, 98.	4.5	337
15	OBSERVATION AND CHARACTERIZATION OF A COSMIC MUON NEUTRINO FLUX FROM THE NORTHERN HEMISPHERE USING SIX YEARS OF ICECUBE DATA. Astrophysical Journal, 2016, 833, 3.	4.5	336
16	The IceCube data acquisition system: Signal capture, digitization, and timestamping. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 601, 294-316.	1.6	312
17	The fluorescence detector of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 227-251.	1.6	275
18	Reactor $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:msub}> \langle \text{mml:mover accent="true"> \langle \text{mml:mi}> \hat{1}/2 </\text{mml:mi}> \langle \text{mml:mo}> \hat{-} </\text{mml:mo}> </\text{mml:mover}> \langle \text{mml:mi}> e </\text{mml:mi}> </\text{mml:msub}> </\text{mml:math}>$ Disappears in the Double Chooz experiment. Physical Review D, 2012, 86, .	4.7	275

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19	An absence of neutrinos associated with cosmic-ray acceleration in $\hat{\nu}^3$ -ray bursts. <i>Nature</i> , 2012, 484, 351-354.	27.8	272
20	Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube. <i>Physical Review Letters</i> , 2015, 115, 081102.	7.8	247
21	Search for Dark Matter Annihilations in the Sun with the 79-String IceCube Detector. <i>Physical Review Letters</i> , 2013, 110, 131302.	7.8	235
22	The Baikal underwater neutrino telescope: Design, performance, and first results. <i>Astroparticle Physics</i> , 1997, 7, 263-282.	4.3	232
23	The design and performance of IceCube DeepCore. <i>Astroparticle Physics</i> , 2012, 35, 615-624.	4.3	222
24	Calibration and characterization of the IceCube photomultiplier tube. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 618, 139-152.	1.6	211
25	Atmospheric and astrophysical neutrinos above $1\hat{\text{A}}\text{TeV}$ interacting in IceCube. <i>Physical Review D</i> , 2015, 91, .	4.7	209
26	All-sky Search for Time-integrated Neutrino Emission from Astrophysical Sources with 7 yr of IceCube Data. <i>Astrophysical Journal</i> , 2017, 835, 151.	4.5	198
27	The AMANDA neutrino telescope: principle of operation and first results. <i>Astroparticle Physics</i> , 2000, 13, 1-20.	4.3	192
28	THE CONTRIBUTION OF FERMI-2LAC BLAZARS TO DIFFUSE $\text{TeV}\hat{\text{A}}\text{PEV}$ NEUTRINO FLUX. <i>Astrophysical Journal</i> , 2017, 835, 45.	4.5	186
29	The next-generation liquid-scintillator neutrino observatory LENA. <i>Astroparticle Physics</i> , 2012, 35, 685-732.	4.3	181
30	Improved measurements of the neutrino mixing angle $\hat{\nu}_1, 13$ with the Double Chooz detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	181
31	Muon track reconstruction and data selection techniques in AMANDA. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 524, 169-194.	1.6	171
32	Energy reconstruction methods in the IceCube neutrino telescope. <i>Journal of Instrumentation</i> , 2014, 9, P03009-P03009.	1.2	171
33	IceTop: The surface component of IceCube. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 700, 188-220.	1.6	166
34	Measurement of the atmospheric neutrino energy spectrum from $100\hat{\text{A}}\text{GeV}$ to $400\hat{\text{A}}\text{TeV}$ with IceCube. <i>Physical Review D</i> , 2011, 83, .	4.7	156
35	Flavor Ratio of Astrophysical Neutrinos above $35\hat{\text{A}}\text{TeV}$ in IceCube. <i>Physical Review Letters</i> , 2015, 114, 171102.	7.8	156
36	Optical properties of deep glacial ice at the South Pole. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	149

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37	SEARCHES FOR EXTENDED AND POINT-LIKE NEUTRINO SOURCES WITH FOUR YEARS OF ICECUBE DATA. <i>Astrophysical Journal</i> , 2014, 796, 109.	4.5	149
38	Observation of high-energy neutrinos using \check{A} Cerenkov detectors embedded deep in Antarctic ice. <i>Nature</i> , 2001, 410, 441-443.	27.8	148
39	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017, 850, L35.	8.3	135
40	Limits on a Muon Flux from Neutralino Annihilations in the Sun with the IceCube 22-String Detector. <i>Physical Review Letters</i> , 2009, 102, 201302.	7.8	132
41	Differential limit on the extremely-high-energy cosmic neutrino flux in the presence of astrophysical background from nine years of IceCube data. <i>Physical Review D</i> , 2018, 98, .	4.7	131
42	TIME-INTEGRATED SEARCHES FOR POINT-LIKE SOURCES OF NEUTRINOS WITH THE 40-STRING IceCube DETECTOR. <i>Astrophysical Journal</i> , 2011, 732, 18.	4.5	126
43	SEARCH FOR PROMPT NEUTRINO EMISSION FROM GAMMA-RAY BURSTS WITH ICECUBE. <i>Astrophysical Journal Letters</i> , 2015, 805, L5.	8.3	124
44	Measurement of South Pole ice transparency with the IceCube LED calibration system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 711, 73-89.	1.6	122
45	MEASUREMENT OF THE ANISOTROPY OF COSMIC-RAY ARRIVAL DIRECTIONS WITH ICECUBE. <i>Astrophysical Journal Letters</i> , 2010, 718, L194-L198.	8.3	119
46	The IceCube realtime alert system. <i>Astroparticle Physics</i> , 2017, 92, 30-41.	4.3	116
47	Extending the Search for Muon Neutrinos Coincident with Gamma-Ray Bursts in IceCube Data. <i>Astrophysical Journal</i> , 2017, 843, 112.	4.5	116
48	OBSERVATION OF ANISOTROPY IN THE GALACTIC COSMIC-RAY ARRIVAL DIRECTIONS AT 400 TeV WITH ICECUBE. <i>Astrophysical Journal</i> , 2012, 746, 33.	4.5	115
49	Measurement of the cosmic ray energy spectrum with IceTop-73. <i>Physical Review D</i> , 2013, 88, .	4.7	114
50	Measurement of the multi-TeV neutrino interaction cross-section with IceCube using Earth absorption. <i>Nature</i> , 2017, 551, 596-600.	27.8	113
51	Constraints on Ultrahigh-Energy Cosmic-Ray Sources from a Search for Neutrinos above 10 \hat{A} PeV with IceCube. <i>Physical Review Letters</i> , 2016, 117, 241101.	7.8	111
52	Search for annihilating dark matter in the Sun with 3 \hat{A} years of IceCube data. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	111
53	AN ALL-SKY SEARCH FOR THREE FLAVORS OF NEUTRINOS FROM GAMMA-RAY BURSTS WITH THE ICECUBE NEUTRINO OBSERVATORY. <i>Astrophysical Journal</i> , 2016, 824, 115.	4.5	109
54	OBSERVATION OF ANISOTROPY IN THE ARRIVAL DIRECTIONS OF GALACTIC COSMIC RAYS AT MULTIPLE ANGULAR SCALES WITH IceCube. <i>Astrophysical Journal</i> , 2011, 740, 16.	4.5	103

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73	Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 59-string configuration. <i>Physical Review D</i> , 2014, 89, .	4.7	74
74	Measurement of the production cross-section of positive pions in the collision of 8.9 GeV/c protons on beryllium. <i>European Physical Journal C</i> , 2007, 52, 29-53.	3.9	73
75	ANISOTROPY IN COSMIC-RAY ARRIVAL DIRECTIONS IN THE SOUTHERN HEMISPHERE BASED ON SIX YEARS OF DATA FROM THE ICECUBE DETECTOR. <i>Astrophysical Journal</i> , 2016, 826, 220.	4.5	72
76	Determination of the atmospheric neutrino flux and searches for new physics with AMANDA-II. <i>Physical Review D</i> , 2009, 79, .	4.7	71
77	Constraints on the extremely-high energy cosmic neutrino flux with the IceCube 2008-2009 data. <i>Physical Review D</i> , 2011, 83, .	4.7	68
78	Multiyear search for dark matter annihilations in the Sun with the AMANDA-II and IceCube detectors. <i>Physical Review D</i> , 2012, 85, .	4.7	66
79	Neutrino interferometry for high-precision tests of Lorentz symmetry with IceCube. <i>Nature Physics</i> , 2018, 14, 961-966.	16.7	66
80	Search for Extraterrestrial Point Sources of Neutrinos with AMANDA-II. <i>Physical Review Letters</i> , 2004, 92, 071102.	7.8	65
81	Limits on Diffuse Fluxes of High Energy Extraterrestrial Neutrinos with the AMANDA-B10 Detector. <i>Physical Review Letters</i> , 2003, 90, 251101.	7.8	64
82	Measurement of the Atmospheric μ Flux in IceCube. <i>Physical Review Letters</i> , 2013, 110, 151105.	7.8	64
83	Results from the Antarctic Muon and Neutrino Detector Array. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 118, 371-379.	0.4	63
84	Measurement of the production cross-section of positive pions in p -Al collisions at. <i>Nuclear Physics B</i> , 2006, 732, 1-45.	2.5	63
85	Search for neutrino-induced cascades with AMANDA. <i>Astroparticle Physics</i> , 2004, 22, 127-138.	4.3	62
86	Search for neutrinos from dark matter self-annihilations in the center of the Milky Way with 3 years of IceCube/DeepCore. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	62
87	Search for neutrinos from decaying dark matter with IceCube. <i>European Physical Journal C</i> , 2018, 78, 831.	3.9	62
88	The energy spectrum of atmospheric neutrinos between 2 and 200 TeV with the AMANDA-II detector. <i>Astroparticle Physics</i> , 2010, 34, 48-58.	4.3	61
89	Flux limits on ultra high energy neutrinos with AMANDA-B10. <i>Astroparticle Physics</i> , 2005, 22, 339-353.	4.3	60
90	Search for supernova neutrino bursts with the AMANDA detector. <i>Astroparticle Physics</i> , 2002, 16, 345-359.	4.3	59

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91	Detection of atmospheric muon neutrinos with the IceCube 9-string detector. <i>Physical Review D</i> , 2007, 76, .	4.7	57
92	SEARCHES FOR TIME-DEPENDENT NEUTRINO SOURCES WITH ICECUBE DATA FROM 2008 TO 2012. <i>Astrophysical Journal</i> , 2015, 807, 46.	4.5	56
93	Improved limits on dark matter annihilation in the Sun with the 79-string IceCube detector and implications for supersymmetry. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 022-022.	5.4	56
94	The HARP detector at the CERN PS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 571, 527-561.	1.6	54
95	Speed of sound in bubble-free ice. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 3613-3618.	1.1	53
96	IceCube search for dark matter annihilation in nearby galaxies and galaxy clusters. <i>Physical Review D</i> , 2013, 88, .	4.7	53
97	Five years of searches for point sources of astrophysical neutrinos with the AMANDA-II neutrino telescope. <i>Physical Review D</i> , 2007, 75, .	4.7	52
98	Search for dark matter annihilation in the Galactic Center with IceCube-79. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	52
99	Limits to the muon flux from neutralino annihilations in the Sun with the AMANDA detector. <i>Astroparticle Physics</i> , 2006, 24, 459-466.	4.3	51
100	Anisotropy studies around the galactic centre at EeV energies with the Auger Observatory. <i>Astroparticle Physics</i> , 2007, 27, 244-253.	4.3	51
101	Characterization of the atmospheric muon flux in IceCube. <i>Astroparticle Physics</i> , 2016, 78, 1-27.	4.3	51
102	Measurement of Atmospheric Neutrino Oscillations with IceCube. <i>Physical Review Letters</i> , 2013, 111, 081801.	7.8	49
103	THE FIRST COMBINED SEARCH FOR NEUTRINO POINT-SOURCES IN THE SOUTHERN HEMISPHERE WITH THE ANTARES AND ICECUBE NEUTRINO TELESCOPES. <i>Astrophysical Journal</i> , 2016, 823, 65.	4.5	49
104	Measurement of the Atmospheric $\langle \hat{I} \rangle_{1/2}$ Spectrum with IceCube. <i>Physical Review D</i> , 2015, 91, .	4.7	48
105	Probing the origin of cosmic rays with extremely high energy neutrinos using the IceCube Observatory. <i>Physical Review D</i> , 2013, 88, .	4.7	47
106	Limits to the muon flux from WIMP annihilation in the center of the Earth with the AMANDA detector. <i>Physical Review D</i> , 2002, 66, .	4.7	46
107	Measurement of \hat{I}_{13} in Double Chooz using neutron captures on hydrogen with novel background rejection techniques. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	46
108	Navigation technology for exploration of glacier ice with maneuverable melting probes. <i>Cold Regions Science and Technology</i> , 2016, 123, 53-70.	3.5	46

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109	PINGU: a vision for neutrino and particle physics at the South Pole. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 054006.	3.6	45
110	Large-angle production of charged pions with $3 \leq E < 12.9$ GeV incident protons on nuclear targets. Physical Review C, 2008, 77, .	2.9	44
111	Search for point sources of high energy neutrinos with final data from AMANDA-II. Physical Review D, 2009, 79, .	4.7	44
112	Search for astrophysical tau neutrinos in three years of IceCube data. Physical Review D, 2016, 93, .	4.7	44
113	The Search for Muon Neutrinos from Northern Hemisphere Gamma-Ray Bursts with AMANDA. Astrophysical Journal, 2008, 674, 357-370.	4.5	43
114	FIRST NEUTRINO POINT-SOURCE RESULTS FROM THE 22 STRING ICECUBE DETECTOR. Astrophysical Journal, 2009, 701, L47-L51.	4.5	43
115	First test of Lorentz violation with a reactor-based antineutrino experiment. Physical Review D, 2012, 86, .	4.7	41
116	The mass-hierarchy and CP-violation discovery reach of the LBNO long-baseline neutrino experiment. Journal of High Energy Physics, 2014, 2014, 1.	4.7	41
117	Searching for soft relativistic jets in core-collapse supernovae with the IceCube optical follow-up program. Astronomy and Astrophysics, 2012, 539, A60.	5.1	40
118	Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. Physical Review D, 2017, 96, .	4.7	40
119	Search for non-relativistic magnetic monopoles with IceCube. European Physical Journal C, 2014, 74, 1.	3.9	39
120	THE DETECTION OF A SN II IN OPTICAL FOLLOW-UP OBSERVATIONS OF ICECUBE NEUTRINO EVENTS. Astrophysical Journal, 2015, 811, 52.	4.5	39
121	Calibration strategy of the JUNO experiment. Journal of High Energy Physics, 2021, 2021, 1.	4.7	39
122	Search for extraterrestrial point sources of high energy neutrinos with AMANDA-II using data collected in 2000-2002. Physical Review D, 2005, 71, .	4.7	38
123	Development of a general analysis and unfolding scheme and its application to measure the energy spectrum of atmospheric neutrinos with IceCube. European Physical Journal C, 2015, 75, 116.	3.9	38
124	TIME-DEPENDENT SEARCHES FOR POINT SOURCES OF NEUTRINOS WITH THE 40-STRING AND 22-STRING CONFIGURATIONS OF ICECUBE. Astrophysical Journal, 2012, 744, 1.	4.5	37
125	All-flavour search for neutrinos from dark matter annihilations in the Milky Way with IceCube/DeepCore. European Physical Journal C, 2016, 76, 1.	3.9	37
126	Search for neutrino-induced cascades with the AMANDA detector. Physical Review D, 2003, 67, .	4.7	36

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127	Search for Point Sources of High-Energy Neutrinos with AMANDA. <i>Astrophysical Journal</i> , 2003, 583, 1040-1057.	4.5	36
128	Extending the Search for Neutrino Point Sources with IceCube above the Horizon. <i>Physical Review Letters</i> , 2009, 103, 221102.	7.8	36
129	An improved method for measuring muon energy using the truncated mean of dE/dx . <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 703, 190-198.	1.6	36
130	Qualification tests of 474 photomultiplier tubes for the inner detector of the Double Chooz experiment. <i>Journal of Instrumentation</i> , 2011, 6, P06008-P06008.	1.2	35
131	First search for atmospheric and extraterrestrial neutrino-induced cascades with the IceCube detector. <i>Physical Review D</i> , 2011, 84, .	4.7	34
132	Cosmic ray composition and energy spectrum from 1×10^{30} PeV using the 40-string configuration of IceTop and IceCube. <i>Astroparticle Physics</i> , 2013, 42, 15-32.	4.3	34
133	Observation of the cosmic-ray shadow of the Moon with IceCube. <i>Physical Review D</i> , 2014, 89, .	4.7	34
134	Background-independent measurement of $\langle \mathbf{v} \cdot \mathbf{v} \rangle$. <i>Physical Review D</i> , 2015, 91, .	4.1	34
135	Searches for small-scale anisotropies from neutrino point sources with three years of IceCube data. <i>Astroparticle Physics</i> , 2015, 66, 39-52.	4.3	34
136	Measurement of acoustic attenuation in South Pole ice. <i>Astroparticle Physics</i> , 2011, 34, 382-393.	4.3	33
137	A unified supernova catalogue. <i>Astronomy and Astrophysics</i> , 2012, 538, A120.	5.1	33
138	Multiwavelength follow-up of a rare IceCube neutrino multiplet. <i>Astronomy and Astrophysics</i> , 2017, 607, A115.	5.1	33
139	Search for Neutrino-Induced Cascades from Gamma-Ray Bursts with AMANDA. <i>Astrophysical Journal</i> , 2007, 664, 397-410.	4.5	32
140	Solar Energetic Particle Spectrum on 2006 December 13 Determined by IceTop. <i>Astrophysical Journal</i> , 2008, 689, L65-L68.	4.5	32
141	Search for correlations between the arrival directions of IceCube neutrino events and ultrahigh-energy cosmic rays detected by the Pierre Auger Observatory and the Telescope Array. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 037-037.	5.4	31
142	Search for Galactic PeV gamma rays with the IceCube Neutrino Observatory. <i>Physical Review D</i> , 2013, 87, .	4.7	29
143	Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. <i>Physical Review D</i> , 2014, 90, .	4.7	29
144	Searches for relativistic magnetic monopoles in IceCube. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	29

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145	Measurement of the cosmic ray composition at the knee with the SPASE-2/AMANDA-B10 detectors. <i>Astroparticle Physics</i> , 2004, 21, 565-581.	4.3	28
146	Measurement of the production of charged pions by protons on a tantalum target. <i>European Physical Journal C</i> , 2007, 51, 787-824.	3.9	28
147	First search for extremely high energy cosmogenic neutrinos with the IceCube Neutrino Observatory. <i>Physical Review D</i> , 2010, 82, .	4.7	28
148	Multipole analysis of IceCube data to search for dark matter accumulated in the Galactic halo. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	28
149	SEARCH FOR HIGH-ENERGY MUON NEUTRINOS FROM THE "NAKED-EYE" GRB 080319B WITH THE IceCube NEUTRINO TELESCOPE. <i>Astrophysical Journal</i> , 2009, 701, 1721-1731.	4.5	27
150	LOWERING ICECUBE'S ENERGY THRESHOLD FOR POINT SOURCE SEARCHES IN THE SOUTHERN SKY. <i>Astrophysical Journal Letters</i> , 2016, 824, L28.	8.3	27
151	Search for relativistic magnetic monopoles with the AMANDA-II neutrino telescope. <i>European Physical Journal C</i> , 2010, 69, 361-378.	3.9	26
152	A measurement of the diffuse astrophysical muon neutrino flux using eight years of IceCube data. , 2017, , .		26
153	On the selection of AGN neutrino source candidates for a source stacking analysis with neutrino telescopes. <i>Astroparticle Physics</i> , 2006, 26, 282-300.	4.3	25
154	Lateral distribution of muons in IceCube cosmic ray events. <i>Physical Review D</i> , 2013, 87, .	4.7	25
155	Improvement in fast particle track reconstruction with robust statistics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated</i> Measurement of the production cross-sections of μ^\pm in $p\text{-}C$ and $p\text{-}Fe$ collisions at $\sqrt{s} = 1.76, 1.88, 1.96$ TeV. <i>Physical Review D</i> , 2017, 95, 034004.	1.6	25
156	Measurement of the production cross-sections of μ^\pm in $p\text{-}C$ and $p\text{-}Fe$ collisions at $\sqrt{s} = 1.76, 1.88, 1.96$ TeV. <i>Physical Review D</i> , 2017, 95, 034004.	4.8	24
157	Very high-energy gamma-ray follow-up program using neutrino triggers from IceCube. <i>Journal of Instrumentation</i> , 2016, 11, P11009-P11009.	1.2	24
158	Measurement of the μ^\pm energy spectrum with IceCube-79. <i>European Physical Journal C</i> , 2017, 77, 692.	3.9	24
159	Search for neutrino-induced particle showers with IceCube-40. <i>Physical Review D</i> , 2014, 89, .	4.7	23
160	Search for nonstandard neutrino interactions with IceCube DeepCore. <i>Physical Review D</i> , 2018, 97, .	4.7	23
161	Limits on the muon flux from neutralino annihilations at the center of the Earth with AMANDA. <i>Astroparticle Physics</i> , 2006, 26, 129-139.	4.3	22
162	Large-angle production of charged pions by $3\text{--}12\text{ GeV}/c$ protons on carbon, copper and tin targets. <i>European Physical Journal C</i> , 2008, 53, 177-204.	3.9	22

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163	Large-angle production of charged pions by 3-12.9 GeV/c protons on beryllium, aluminium and lead targets. <i>European Physical Journal C</i> , 2008, 54, 37-60.	3.9	22
164	Search for neutrino-induced cascades with five years of AMANDA data. <i>Astroparticle Physics</i> , 2011, 34, 420-430.	4.3	22
165	A Search for Neutrino Emission from Fast Radio Bursts with Six Years of IceCube Data. <i>Astrophysical Journal</i> , 2018, 857, 117.	4.5	22
166	Direct measurement of backgrounds using reactor-off data in Double Chooz. <i>Physical Review D</i> , 2013, 87, .	4.7	21
167	Calculation of oscillation probabilities of atmospheric neutrinos using nuCraft. <i>Computer Physics Communications</i> , 2015, 197, 185-189.	7.5	21
168	Effective field theory interpretation of searches for dark matter annihilation in the Sun with the IceCube Neutrino Observatory. <i>Physical Review D</i> , 2015, 91, .	4.7	21
169	Search for Astrophysical Sources of Neutrinos Using Cascade Events in IceCube. <i>Astrophysical Journal</i> , 2017, 846, 136.	4.5	21
170	Measurement of sound speed vs. depth in South Pole ice for neutrino astronomy. <i>Astroparticle Physics</i> , 2010, 33, 277-286.	4.3	20
171	Search for relativistic magnetic monopoles with IceCube. <i>Physical Review D</i> , 2013, 87, .	4.7	20
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