

Jacob D Daughhete

List of Publications by Year in descending order

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91
papers

8,558
citations

50276

46
h-index

42399

92
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93
all docs

93
docs citations

93
times ranked

6804
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector. <i>Science</i> , 2013, 342, 1242856.	12.6	1,048
2	Observation of High-Energy Astrophysical Neutrinos in Three Years of IceCube Data. <i>Physical Review Letters</i> , 2014, 113, 101101.	7.8	873
3	First Observation of PeV-Energy Neutrinos with IceCube. <i>Physical Review Letters</i> , 2013, 111, 021103.	7.8	578
4	A COMBINED MAXIMUM-LIKELIHOOD ANALYSIS OF THE HIGH-ENERGY ASTROPHYSICAL NEUTRINO FLUX MEASURED WITH ICECUBE. <i>Astrophysical Journal</i> , 2015, 809, 98.	4.5	337
5	Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube. <i>Physical Review Letters</i> , 2015, 115, 081102.	7.8	247
6	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
7	The design and performance of IceCube DeepCore. <i>Astroparticle Physics</i> , 2012, 35, 615-624.	4.3	222
8	Atmospheric and astrophysical neutrinos above 1 TeV interacting in IceCube. <i>Physical Review D</i> , 2015, 91, .	4.7	209
9	THE CONTRIBUTION OF FERMI-2LAC BLAZARS TO DIFFUSE TEV-PEV NEUTRINO FLUX. <i>Astrophysical Journal</i> , 2017, 835, 45.	4.5	186
10	Energy reconstruction methods in the IceCube neutrino telescope. <i>Journal of Instrumentation</i> , 2014, 9, P03009-P03009.	1.2	171
11	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
12	Flavor Ratio of Astrophysical Neutrinos above 35 TeV in IceCube. <i>Physical Review Letters</i> , 2015, 114, 171102.	7.8	156
13	Search for Neutrinoless Double-Beta Decay with the Upgraded EXO-200 Detector. <i>Physical Review Letters</i> , 2018, 120, 072701.	7.8	152
14	SEARCHES FOR EXTENDED AND POINT-LIKE NEUTRINO SOURCES WITH FOUR YEARS OF ICECUBE DATA. <i>Astrophysical Journal</i> , 2014, 796, 109.	4.5	149
15	Searches for Sterile Neutrinos with the IceCube Detector. <i>Physical Review Letters</i> , 2016, 117, 071801.	7.8	140
16	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
17	SEARCH FOR PROMPT NEUTRINO EMISSION FROM GAMMA-RAY BURSTS WITH ICECUBE. <i>Astrophysical Journal Letters</i> , 2015, 805, L5.	8.3	124
18	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

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19	IceCube sensitivity for low-energy neutrinos from nearby supernovae. <i>Astronomy and Astrophysics</i> , 2011, 535, A109.	5.1	121
20	First Measurement of Coherent Elastic Neutrino-Nucleus Scattering on Argon. <i>Physical Review Letters</i> , 2021, 126, 012002.	7.8	117
21	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
22	Sensitivity and discovery potential of the proposed nEXO experiment to neutrinoless double- β decay. <i>Physical Review C</i> , 2018, 97, .	2.9	115
23	Measurement of the cosmic ray energy spectrum with IceTop-73. <i>Physical Review D</i> , 2013, 88, .	4.7	114
24	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
25	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
26	IceCube sensitivity for low-energy neutrinos from nearby supernovae (<i>Corrigendum</i>). <i>Astronomy and Astrophysics</i> , 2014, 563, C1.	5.1	94
27	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. <i>Physical Review D</i> , 2016, 93, .	4.7	92
28	Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 40-string detector. <i>Physical Review D</i> , 2011, 84, .	4.7	87
29	Determining neutrino oscillation parameters from atmospheric muon neutrino disappearance with three years of IceCube DeepCore data. <i>Physical Review D</i> , 2015, 91, .	4.7	86
30	Limits on Neutrino Emission from Gamma-Ray Bursts with the 40 String IceCube Detector. <i>Physical Review Letters</i> , 2011, 106, 141101.	7.8	85
31	OBSERVATION OF COSMIC-RAY ANISOTROPY WITH THE ICETOP AIR SHOWER ARRAY. <i>Astrophysical Journal</i> , 2013, 765, 55.	4.5	85
32	SEARCH FOR TIME-INDEPENDENT NEUTRINO EMISSION FROM ASTROPHYSICAL SOURCES WITH 3 yr OF IceCube DATA. <i>Astrophysical Journal</i> , 2013, 779, 132.	4.5	81
33	Search for dark matter from the Galactic halo with the IceCube Neutrino Telescope. <i>Physical Review D</i> , 2011, 84, .	4.7	79
34	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
35	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
36	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

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37	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
38	Measurement of the Atmospheric ν_{μ} Flux in IceCube. <i>Physical Review Letters</i> , 2013, 110, 151105.	7.8	64
39	SEARCHES FOR TIME-DEPENDENT NEUTRINO SOURCES WITH ICECUBE DATA FROM 2008 TO 2012. <i>Astrophysical Journal</i> , 2015, 807, 46.	4.5	56
40	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
41	IceCube search for dark matter annihilation in nearby galaxies and galaxy clusters. <i>Physical Review D</i> , 2013, 88, .	4.7	53
42	Search for dark matter annihilation in the Galactic Center with IceCube-79. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	52
43	Characterization of the atmospheric muon flux in IceCube. <i>Astroparticle Physics</i> , 2016, 78, 1-27.	4.3	51
44	Measurement of Atmospheric Neutrino Oscillations with IceCube. <i>Physical Review Letters</i> , 2013, 111, 081801.	7.8	49
45	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
46	Measurement of the Atmospheric ν_{μ} Spectrum with IceCube. <i>Physical Review D</i> , 2015, 91, .	4.7	48
47	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
48	Search for astrophysical tau neutrinos in three years of IceCube data. <i>Physical Review D</i> , 2016, 93, .	4.7	44
49	Searching for soft relativistic jets in core-collapse supernovae with the IceCube optical follow-up program. <i>Astronomy and Astrophysics</i> , 2012, 539, A60.	5.1	40
50	Search for non-relativistic magnetic monopoles with IceCube. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	39
51	THE DETECTION OF A SN IIn IN OPTICAL FOLLOW-UP OBSERVATIONS OF ICECUBE NEUTRINO EVENTS. <i>Astrophysical Journal</i> , 2015, 811, 52.	4.5	39
52	Development of a general analysis and unfolding scheme and its application to measure the energy spectrum of atmospheric neutrinos with IceCube. <i>European Physical Journal C</i> , 2015, 75, 116.	3.9	38
53	TIME-DEPENDENT SEARCHES FOR POINT SOURCES OF NEUTRINOS WITH THE 40-STRING AND 22-STRING CONFIGURATIONS OF ICECUBE. <i>Astrophysical Journal</i> , 2012, 744, 1.	4.5	37
54	All-flavour search for neutrinos from dark matter annihilations in the Milky Way with IceCube/DeepCore. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	37

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55	An improved method for measuring muon energy using the truncated mean of dE/dx . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 703, 190-198.	1.6	36
56	First search for atmospheric and extraterrestrial neutrino-induced cascades with the IceCube detector. Physical Review D, 2011, 84, .	4.7	34
57	Cosmic ray composition and energy spectrum from $1 \leq E < 30$ PeV using the 40-string configuration of IceTop and IceCube. Astroparticle Physics, 2013, 42, 15-32.	4.3	34
58	Observation of the cosmic-ray shadow of the Moon with IceCube. Physical Review D, 2014, 89, .	4.7	34
59	Searches for small-scale anisotropies from neutrino point sources with three years of IceCube data. Astroparticle Physics, 2015, 66, 39-52.	4.3	34
60	Deep neural networks for energy and position reconstruction in EXO-200. Journal of Instrumentation, 2018, 13, P08023-P08023.	1.2	34
61	Search for Galactic PeV gamma rays with the IceCube Neutrino Observatory. Physical Review D, 2013, 87, .	4.7	29
62	Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. Physical Review D, 2014, 90, .	4.7	29
63	Searches for relativistic magnetic monopoles in IceCube. European Physical Journal C, 2016, 76, 1.	3.9	29
64	VUV-Sensitive Silicon Photomultipliers for Xenon Scintillation Light Detection in nEXO. IEEE Transactions on Nuclear Science, 2018, 65, 2823-2833.	2.0	29
65	Multipole analysis of IceCube data to search for dark matter accumulated in the Galactic halo. European Physical Journal C, 2015, 75, 1.	3.9	28
66	Measurement of the drift velocity and transverse diffusion of electrons in liquid xenon with the EXO-200 detector. Physical Review C, 2017, 95, .	2.9	28
67	Sensitivity of the COHERENT experiment to accelerator-produced dark matter. Physical Review D, 2020, 102, .	4.7	28
68	LOWERING ICECUBE'S ENERGY THRESHOLD FOR POINT SOURCE SEARCHES IN THE SOUTHERN SKY. Astrophysical Journal Letters, 2016, 824, L28.	8.3	27
69	Lateral distribution of muons in IceCube cosmic ray events. Physical Review D, 2013, 87, .	4.7	25
70	Improvement in fast particle track reconstruction with robust statistics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 736, 143-149.	1.6	25
71	Trace radioactive impurities in final construction materials for EXO-200. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 871, 169-179.	1.6	25
72	Search for neutrino-induced particle showers with IceCube-40. Physical Review D, 2014, 89, .	4.7	23

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73	Search for relativistic magnetic monopoles with IceCube. <i>Physical Review D</i> , 2013, 87, .	4.7	20
74	First constraint on coherent elastic neutrino-nucleus scattering in argon. <i>Physical Review D</i> , 2019, 100, .	4.7	20
75	Search for ultrahigh-energy tau neutrinos with IceCube. <i>Physical Review D</i> , 2012, 86, .	4.7	19
76	All-particle cosmic ray energy spectrum measured with 26 IceTop stations. <i>Astroparticle Physics</i> , 2013, 44, 40-58.	4.3	15
77	Search for nucleon decays with EXO-200. <i>Physical Review D</i> , 2018, 97, .	4.7	14
78	Characterization of an Ionization Readout Tile for nEXO. <i>Journal of Instrumentation</i> , 2018, 13, P01006-P01006.	1.2	14
79	NEUTRINO ANALYSIS OF THE 2010 SEPTEMBER CRAB NEBULA FLARE AND TIME-INTEGRATED CONSTRAINTS ON NEUTRINO EMISSION FROM THE CRAB USING ICECUBE. <i>Astrophysical Journal</i> , 2012, 745, 45.	4.5	13
80	Background studies for acoustic neutrino detection at the South Pole. <i>Astroparticle Physics</i> , 2012, 35, 312-324.	4.3	12
81	SEARCHES FOR PERIODIC NEUTRINO EMISSION FROM BINARY SYSTEMS WITH 22 AND 40 STRINGS OF ICECUBE. <i>Astrophysical Journal</i> , 2012, 748, 118.	4.5	11
82	Neutrino oscillation studies with IceCube-DeepCore. <i>Nuclear Physics B</i> , 2016, 908, 161-177.	2.5	11
83	SEARCHES FOR HIGH-ENERGY NEUTRINO EMISSION IN THE GALAXY WITH THE COMBINED ICECUBE-AMANDA DETECTOR. <i>Astrophysical Journal</i> , 2013, 763, 33.	4.5	10
84	The IceProd framework: Distributed data processing for the IceCube neutrino observatory. <i>Journal of Parallel and Distributed Computing</i> , 2015, 75, 198-211.	4.1	9
85	Searches for double beta decay of ^{134}Xe with EXO-200. <i>Physical Review D</i> , 2017, 96, .	4.7	9
86	A D_2O detector for flux normalization of a pion decay-at-rest neutrino source. <i>Journal of Instrumentation</i> , 2021, 16, P08048.	1.2	8
87	THE SEARCH FOR TRANSIENT ASTROPHYSICAL NEUTRINO EMISSION WITH ICECUBE-DEEPCORE. <i>Astrophysical Journal</i> , 2016, 816, 75.	4.5	5
88	Study of silicon photomultiplier performance in external electric fields. <i>Journal of Instrumentation</i> , 2018, 13, T09006-T09006.	1.2	5
89	The EXO-200 detector, part II: auxiliary systems. <i>Journal of Instrumentation</i> , 2022, 17, P02015.	1.2	4
90	Development of a ^{83}mKr source for the calibration of the CENNS-10 liquid argon detector. <i>Journal of Instrumentation</i> , 2021, 16, P04002.	1.2	2

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91	Monitoring the SNS basement neutron background with the MARS detector. Journal of Instrumentation, 2022, 17, P03021.	1.2	2