

A Karim Haj Ismail

List of Publications by Year in descending order

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96
papers

8,579
citations

61984

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97
all docs

97
docs citations

97
times ranked

6389
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	OBSERVATION AND CHARACTERIZATION OF A COSMIC MUON NEUTRINO FLUX FROM THE NORTHERN HEMISPHERE USING SIX YEARS OF ICECUBE DATA. <i>Astrophysical Journal</i> , 2016, 833, 3.	4.5	336
6	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
7	Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube. <i>Physical Review Letters</i> , 2015, 115, 081102.	7.8	247
8	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
9	The design and performance of IceCube DeepCore. <i>Astroparticle Physics</i> , 2012, 35, 615-624.	4.3	222
10	Atmospheric and astrophysical neutrinos above $1\hat{\text{A}}\text{TeV}$ interacting in IceCube. <i>Physical Review D</i> , 2015, 91, .	4.7	209
11	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
12	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
13	Energy reconstruction methods in the IceCube neutrino telescope. <i>Journal of Instrumentation</i> , 2014, 9, P03009-P03009.	1.2	171
14	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
15	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
16	SEARCHES FOR EXTENDED AND POINT-LIKE NEUTRINO SOURCES WITH FOUR YEARS OF ICECUBE DATA. <i>Astrophysical Journal</i> , 2014, 796, 109.	4.5	149
17	Searches for Sterile Neutrinos with the IceCube Detector. <i>Physical Review Letters</i> , 2016, 117, 071801.	7.8	140
18	SEARCH FOR PROMPT NEUTRINO EMISSION FROM GAMMA-RAY BURSTS WITH ICECUBE. <i>Astrophysical Journal Letters</i> , 2015, 805, L5.	8.3	124

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19	Measurement of South Pole ice transparency with the IceCube LED calibration system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 711, 73-89.	1.6	122
20	IceCube sensitivity for low-energy neutrinos from nearby supernovae. Astronomy and Astrophysics, 2011, 535, A109.	5.1	121
21	OBSERVATION OF ANISOTROPY IN THE GALACTIC COSMIC-RAY ARRIVAL DIRECTIONS AT 400 TeV WITH ICECUBE. Astrophysical Journal, 2012, 746, 33.	4.5	115
22	Measurement of the cosmic ray energy spectrum with IceTop-73. Physical Review D, 2013, 88, .	4.7	114
23	Constraints on Ultrahigh-Energy Cosmic-Ray Sources from a Search for Neutrinos above 10 ¹⁶ eV with IceCube. Physical Review Letters, 2016, 117, 241101.	7.8	111
24	AN ALL-SKY SEARCH FOR THREE FLAVORS OF NEUTRINOS FROM GAMMA-RAY BURSTS WITH THE ICECUBE NEUTRINO OBSERVATORY. Astrophysical Journal, 2016, 824, 115.	4.5	109
25	IceCube sensitivity for low-energy neutrinos from nearby supernovae (<i>Corrigendum</i>). Astronomy and Astrophysics, 2014, 563, C1.	5.1	94
26	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. Physical Review D, 2016, 93, .	4.7	92
27	Determining neutrino oscillation parameters from atmospheric muon neutrino disappearance with three years of IceCube DeepCore data. Physical Review D, 2015, 91, .	4.7	86
28	OBSERVATION OF COSMIC-RAY ANISOTROPY WITH THE ICETOP AIR SHOWER ARRAY. Astrophysical Journal, 2013, 765, 55.	4.5	85
29	SEARCH FOR TIME-INDEPENDENT NEUTRINO EMISSION FROM ASTROPHYSICAL SOURCES WITH 3 yr OF IceCube DATA. Astrophysical Journal, 2013, 779, 132.	4.5	81
30	Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 59-string configuration. Physical Review D, 2014, 89, .	4.7	74
31	ANISOTROPY IN COSMIC-RAY ARRIVAL DIRECTIONS IN THE SOUTHERN HEMISPHERE BASED ON SIX YEARS OF DATA FROM THE ICECUBE DETECTOR. Astrophysical Journal, 2016, 826, 220.	4.5	72
32	Multiyear search for dark matter annihilations in the Sun with the AMANDA-II and IceCube detectors. Physical Review D, 2012, 85, .	4.7	66
33	Measurement of the Atmospheric μ^+ Flux in IceCube. Physical Review Letters, 2013, 110, 151105.	7.8	64
34	SEARCHES FOR TIME-DEPENDENT NEUTRINO SOURCES WITH ICECUBE DATA FROM 2008 TO 2012. Astrophysical Journal, 2015, 807, 46.	4.5	56
35	Improved limits on dark matter annihilation in the Sun with the 79-string IceCube detector and implications for supersymmetry. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 022-022.	5.4	56
36	IceCube search for dark matter annihilation in nearby galaxies and galaxy clusters. Physical Review D, 2013, 88, .	4.7	53

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37	Search for dark matter annihilation in the Galactic Center with IceCube-79. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	52
38	Characterization of the atmospheric muon flux in IceCube. <i>Astroparticle Physics</i> , 2016, 78, 1-27.	4.3	51
39	Measurement of Atmospheric Neutrino Oscillations with IceCube. <i>Physical Review Letters</i> , 2013, 111, 081801.	7.8	49
40	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
41	Measurement of the Atmospheric ν_{τ} Spectrum with IceCube. <i>Physical Review D</i> , 2015, 91, .	4.7	48
42	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
43	PINGU: a vision for neutrino and particle physics at the South Pole. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2017, 44, 054006.	3.6	45
44	Search for astrophysical tau neutrinos in three years of IceCube data. <i>Physical Review D</i> , 2016, 93, .	4.7	44
45	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
46	Search for non-relativistic magnetic monopoles with IceCube. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	39
47	THE DETECTION OF A SN II _{in} IN OPTICAL FOLLOW-UP OBSERVATIONS OF ICECUBE NEUTRINO EVENTS. <i>Astrophysical Journal</i> , 2015, 811, 52.	4.5	39
48	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
49	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
50	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
51	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
52	Observation of the cosmic-ray shadow of the Moon with IceCube. <i>Physical Review D</i> , 2014, 89, .	4.7	34
53	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
54	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

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55	Search for Galactic PeV gamma rays with the IceCube Neutrino Observatory. Physical Review D, 2013, 87, .	4.7	29
56	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
57	Searches for relativistic magnetic monopoles in IceCube. European Physical Journal C, 2016, 76, 1.	3.9	29
58	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
59	LOWERING ICECUBE'S ENERGY THRESHOLD FOR POINT SOURCE SEARCHES IN THE SOUTHERN SKY. Astrophysical Journal Letters, 2016, 824, L28.	8.3	27
60	Lateral distribution of muons in IceCube cosmic ray events. Physical Review D, 2013, 87, .	4.7	25
61	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
62	Study of p_{\perp} spectra of light particles using modified Hagedorn function and cosmic rays Monte Carlo event generators in proton-proton collisions at $\sqrt{s} = 900$ GeV. European Physical Journal Plus, 2022, 137, 1.	2.6	25
63	Very high-energy gamma-ray follow-up program using neutrino triggers from IceCube. Journal of Instrumentation, 2016, 11, P11009-P11009.	1.2	24
64	Search for neutrino-induced particle showers with IceCube-40. Physical Review D, 2014, 89, .	4.7	23
65	Centrality dependence of $\langle \mathcal{N} \rangle$ distributions and nuclear modification factor of charged particles in Pb-Pb interactions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 89, 054907.	4.1	22
66	Search for relativistic magnetic monopoles with IceCube. Physical Review D, 2013, 87, .	4.7	20
67	South Pole glacial climate reconstruction from multi-borehole laser particulate stratigraphy. Journal of Glaciology, 2013, 59, 1117-1128.	2.2	20
68	First search for dark matter annihilations in the Earth with the IceCube detector. European Physical Journal C, 2017, 77, 1.	3.9	20
69	Search for ultrahigh-energy tau neutrinos with IceCube. Physical Review D, 2012, 86, .	4.7	19
70	Cryptanalysis of Internet of Health Things Encryption Scheme Based on Chaotic Maps. IEEE Access, 2021, 9, 105678-105685.	4.2	19
71	Pseudorapidity dependence of the bulk properties of hadronic medium in pp collisions at 7 TeV. Scientific Reports, 2022, 12, 8142.	3.3	19
72	Collective properties of hadrons in comparison of models prediction in pp collisions at 7 TeV. Results in Physics, 2022, 36, 105433.	4.1	17

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73	Use of event-level neutrino telescope data in global fits for theories of new physics. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 057-057.	5.4	15
74	All-particle cosmic ray energy spectrum measured with 26 IceTop stations. <i>Astroparticle Physics</i> , 2013, 44, 40-58.	4.3	15
75	Bulk properties of the medium in comparison with modelsâ€™ predictions in pp collisions at 13 TeV. <i>European Physical Journal Plus</i> , 2022, 137, .	2.6	15
76	Study of Kinetic Freeze-Out Parameters as a Function of Rapidity in pp Collisions at CERN SPS Energies. <i>Entropy</i> , 2021, 23, 1363.	2.2	12
77	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
78	Neutrino oscillation studies with IceCube-DeepCore. <i>Nuclear Physics B</i> , 2016, 908, 161-177.	2.5	11
79	Freezeout properties of different light nuclei at the RHIC beam energy scan. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	11
80	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
81	Cryptanalysis and Improvement of Novel Image Encryption Technique Using Hybrid Method of Discrete Dynamical Chaotic Maps and Brownian Motion. <i>Multimedia Tools and Applications</i> , 2022, 81, 6571-6584.	3.9	10
82	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
83	Study of Radioactivity in Bajaur Norite Exposed in the Himalayan Tectonic Zone of Northern Pakistan. <i>Atmosphere</i> , 2021, 12, 1385.	2.3	8
84	Excitation Function of Kinetic Freeze-Out Parameters at 6.3, 17.3, 31, 900 and 7000 GeV. <i>Universe</i> , 2022, 8, 138.	2.5	8
85	Decoupling of non-strange, strange and multi-strange particles from the system in Cuâ€™Cu, Auâ€™Au and Pbâ€™Pb collisions at high energies. <i>Chinese Journal of Physics</i> , 2022, 77, 1713-1722.	3.9	8
86	Extraction of different temperatures and kinetic freeze-out volume in high energy collisions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2022, 49, 095102.	3.6	8
87	SEARCH FOR SOURCES OF HIGH-ENERGY NEUTRONS WITH FOUR YEARS OF DATA FROM THE ICETOP DETECTOR. <i>Astrophysical Journal</i> , 2016, 830, 129.	4.5	7
88	Quantum Spin Half Algebra and Generalized Megrelishvili Protocol for Confidentiality of Digital Images. <i>International Journal of Theoretical Physics</i> , 2021, 60, 1720-1741.	1.2	6
89	Curved splicing of copulas. <i>Information Sciences</i> , 2021, 556, 95-110.	6.9	6
90	THE SEARCH FOR TRANSIENT ASTROPHYSICAL NEUTRINO EMISSION WITH ICECUBE-DEEPCORE. <i>Astrophysical Journal</i> , 2016, 816, 75.	4.5	5

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91	Sputtering of size-tunable oxidized Fe nanoparticles by gas flow method. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	5
92	New combination of simple additive and entropy weighting criteria for the selection of best substitution box. Journal of Intelligent and Fuzzy Systems, 2021, 41, 2325-2338.	1.4	5
93	Simulation of the evolution of the Covid-19 pandemic in the United Arab Emirates using the sir epidemical model. Arab Journal of Basic and Applied Sciences, 2021, 28, 128-134.	2.1	2
94	A generalization of quasi-homogenous copulas. Fuzzy Sets and Systems, 2022, 441, 310-320.	2.7	2
95	Growth of Interface Region in 2D Wet Foam. Crystals, 2020, 10, 703.	2.2	0
96	Investigation of the Structural, Optical, and Electrical Characterization of FeO-Doped ZnO Nanoparticles. Russian Physics Journal, 2022, 64, 1850-1856.	0.4	0