

A Karim Haj Ismail

List of Publications by Year in descending order

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96
papers

8,579
citations

61984

43
h-index

42399

92
g-index

97
all docs

97
docs citations

97
times ranked

6389
citing authors

#	ARTICLE	IF	CITATIONS
1	A generalization of quasi-homogenous copulas. Fuzzy Sets and Systems, 2022, 441, 310-320.	2.7	2
2	Cryptanalysis and Improvement of Novel Image Encryption Technique Using Hybrid Method of Discrete Dynamical Chaotic Maps and Brownian Motion. Multimedia Tools and Applications, 2022, 81, 6571-6584.	3.9	10
3	Investigation of the Structural, Optical, and Electrical Characterization of FeO-Doped ZnO Nanoparticles. Russian Physics Journal, 2022, 64, 1850-1856.	0.4	0
4	Excitation Function of Kinetic Freeze-Out Parameters at 6.3, 17.3, 31, 900 and 7000 GeV. Universe, 2022, 8, 138.	2.5	8
5	Decoupling of non-strange, strange and multi-strange particles from the system in Cu-Cu, Au-Au and Pb-Pb collisions at high energies. Chinese Journal of Physics, 2022, 77, 1713-1722.	3.9	8
6	Collective properties of hadrons in comparison of models prediction in pp collisions at 7 TeV. Results in Physics, 2022, 36, 105433.	4.1	17
7	Study of p_T 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
8	Extraction of different temperatures and kinetic freeze-out volume in high energy collisions. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 095102.	3.6	8
9	Pseudorapidity dependence of the bulk properties of hadronic medium in pp collisions at 7 TeV. Scientific Reports, 2022, 12, 8142.	3.3	19
10	Bulk properties of the medium in comparison with models' predictions in pp collisions at 13 TeV. European Physical Journal Plus, 2022, 137, .	2.6	15
11	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
12	Quantum Spin Half Algebra and Generalized Megrelishvili Protocol for Confidentiality of Digital Images. International Journal of Theoretical Physics, 2021, 60, 1720-1741.	1.2	6
13	Curved splicing of copulas. Information Sciences, 2021, 556, 95-110.	6.9	6
14	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
15	Centrality dependence of $\langle m \rangle$ distributions and nuclear modification factor of charged particles in Pb-Pb interactions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2021, 103, 044907.	4.1	22
16	Cryptanalysis of Internet of Health Things Encryption Scheme Based on Chaotic Maps. IEEE Access, 2021, 9, 105678-105685.	4.2	19
17	Study of Radioactivity in Bajaur Norite Exposed in the Himalayan Tectonic Zone of Northern Pakistan. Atmosphere, 2021, 12, 1385.	2.3	8
18	Study of Kinetic Freeze-Out Parameters as a Function of Rapidity in pp Collisions at CERN SPS Energies. Entropy, 2021, 23, 1363.	2.2	12

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19	Freezeout properties of different light nuclei at the RHIC beam energy scan. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	11
20	Growth of Interface Region in 2D Wet Foam. <i>Crystals</i> , 2020, 10, 703.	2.2	0
21	Sputtering of size-tunable oxidized Fe nanoparticles by gas flow method. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	5
22	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
23	THE CONTRIBUTION OF FERMI-2LAC BLAZARS TO DIFFUSE TEV-PEV NEUTRINO FLUX. <i>Astrophysical Journal</i> , 2017, 835, 45.	4.5	186
24	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
25	First search for dark matter annihilations in the Earth with the IceCube detector. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	20
26	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
27	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
28	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
29	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
30	Constraints on Ultrahigh-Energy Cosmic-Ray Sources from a Search for Neutrinos above 10 ¹⁶ eV with IceCube. <i>Physical Review Letters</i> , 2016, 117, 241101.	7.8	111
31	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
32	Neutrino oscillation studies with IceCube-DeepCore. <i>Nuclear Physics B</i> , 2016, 908, 161-177.	2.5	11
33	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
34	Searches for Sterile Neutrinos with the IceCube Detector. <i>Physical Review Letters</i> , 2016, 117, 071801.	7.8	140
35	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
36	Search for astrophysical tau neutrinos in three years of IceCube data. <i>Physical Review D</i> , 2016, 93, .	4.7	44

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37	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
38	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
39	LOWERING ICECUBE'S ENERGY THRESHOLD FOR POINT SOURCE SEARCHES IN THE SOUTHERN SKY. <i>Astrophysical Journal Letters</i> , 2016, 824, L28.	8.3	27
40	Characterization of the atmospheric muon flux in IceCube. <i>Astroparticle Physics</i> , 2016, 78, 1-27.	4.3	51
41	Searches for relativistic magnetic monopoles in IceCube. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	29
42	THE SEARCH FOR TRANSIENT ASTROPHYSICAL NEUTRINO EMISSION WITH ICECUBE-DEEPCORE. <i>Astrophysical Journal</i> , 2016, 816, 75.	4.5	5
43	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
44	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
45	Measurement of the Atmospheric $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:msub} \langle \text{mml:mi} \hat{I}^{1/2} \langle \text{mml:mi} \langle \text{mml:mi} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{Spectrum}$ with IceCube. <i>Physical Review D</i> , 2015, 91, .	4.7	48
46	Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube. <i>Physical Review Letters</i> , 2015, 115, 081102.	7.8	247
47	SEARCH FOR PROMPT NEUTRINO EMISSION FROM GAMMA-RAY BURSTS WITH ICECUBE. <i>Astrophysical Journal Letters</i> , 2015, 805, L5.	8.3	124
48	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
49	Search for dark matter annihilation in the Galactic Center with IceCube-79. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	52
50	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
51	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
52	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
53	Flavor Ratio of Astrophysical Neutrinos above 35 TeV in IceCube. <i>Physical Review Letters</i> , 2015, 114, 171102.	7.8	156
54	Atmospheric and astrophysical neutrinos above 1 TeV interacting in IceCube. <i>Physical Review D</i> , 2015, 91, .	4.7	209

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55	SEARCHES FOR TIME-DEPENDENT NEUTRINO SOURCES WITH ICECUBE DATA FROM 2008 TO 2012. <i>Astrophysical Journal</i> , 2015, 807, 46.	4.5	56
56	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
57	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
58	IceCube sensitivity for low-energy neutrinos from nearby supernovae (<i>Corrigendum</i>). <i>Astronomy and Astrophysics</i> , 2014, 563, C1.	5.1	94
59	Observation of the cosmic-ray shadow of the Moon with IceCube. <i>Physical Review D</i> , 2014, 89, .	4.7	34
60	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
61	Search for neutrino-induced particle showers with IceCube-40. <i>Physical Review D</i> , 2014, 89, .	4.7	23
62	Energy reconstruction methods in the IceCube neutrino telescope. <i>Journal of Instrumentation</i> , 2014, 9, P03009-P03009.	1.2	171
63	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
64	Improvement in fast particle track reconstruction with robust statistics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 736, 143-149.	1.6	25
65	SEARCHES FOR EXTENDED AND POINT-LIKE NEUTRINO SOURCES WITH FOUR YEARS OF ICECUBE DATA. <i>Astrophysical Journal</i> , 2014, 796, 109.	4.5	149
66	Observation of High-Energy Astrophysical Neutrinos in Three Years of IceCube Data. <i>Physical Review Letters</i> , 2014, 113, 101101.	7.8	873
67	Search for non-relativistic magnetic monopoles with IceCube. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	39
68	First Observation of PeV-Energy Neutrinos with IceCube. <i>Physical Review Letters</i> , 2013, 111, 021103.	7.8	578
69	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
70	Measurement of Atmospheric Neutrino Oscillations with IceCube. <i>Physical Review Letters</i> , 2013, 111, 081801.	7.8	49
71	Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector. <i>Science</i> , 2013, 342, 1242856.	12.6	1,048
72	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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73	Search for Dark Matter Annihilations in the Sun with the 79-String IceCube Detector. Physical Review Letters, 2013, 110, 131302.	7.8	235
74	Cosmic ray composition and energy spectrum from 1â€³30 PeV using the 40-string configuration of IceTop and IceCube. Astroparticle Physics, 2013, 42, 15-32.	4.3	34
75	All-particle cosmic ray energy spectrum measured with 26 IceTop stations. Astroparticle Physics, 2013, 44, 40-58.	4.3	15
76	Search for Galactic PeV gamma rays with the IceCube Neutrino Observatory. Physical Review D, 2013, 87, .	4.7	29
77	Measurement of the Atmospheric $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle^{\frac{1}{2}} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ Flux in IceCube. Physical Review Letters, 2013, 110, 151105.	7.8	64
78	IceTop: The surface component of IceCube. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 700, 188-220.	1.6	166
79	Lateral distribution of muons in IceCube cosmic ray events. Physical Review D, 2013, 87, .	4.7	25
80	Measurement of the cosmic ray energy spectrum with IceTop-73. Physical Review D, 2013, 88, .	4.7	114
81	IceCube search for dark matter annihilation in nearby galaxies and galaxy clusters. Physical Review D, 2013, 88, .	4.7	53
82	Probing the origin of cosmic rays with extremely high energy neutrinos using the IceCube Observatory. Physical Review D, 2013, 88, .	4.7	47
83	Search for relativistic magnetic monopoles with IceCube. Physical Review D, 2013, 87, .	4.7	20
84	SEARCH FOR TIME-INDEPENDENT NEUTRINO EMISSION FROM ASTROPHYSICAL SOURCES WITH 3 yr OF IceCube DATA. Astrophysical Journal, 2013, 779, 132.	4.5	81
85	OBSERVATION OF COSMIC-RAY ANISOTROPY WITH THE ICETOP AIR SHOWER ARRAY. Astrophysical Journal, 2013, 765, 55.	4.5	85
86	South Pole glacial climate reconstruction from multi-borehole laser particulate stratigraphy. Journal of Glaciology, 2013, 59, 1117-1128.	2.2	20
87	SEARCHES FOR HIGH-ENERGY NEUTRINO EMISSION IN THE GALAXY WITH THE COMBINED ICECUBE-AMANDA DETECTOR. Astrophysical Journal, 2013, 763, 33.	4.5	10
88	Search for ultrahigh-energy tau neutrinos with IceCube. Physical Review D, 2012, 86, .	4.7	19
89	Use of event-level neutrino telescope data in global fits for theories of new physics. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 057-057.	5.4	15
90	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

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91	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
92	An absence of neutrinos associated with cosmic-ray acceleration in $\hat{1}^3$ -ray bursts. <i>Nature</i> , 2012, 484, 351-354.	27.8	272
93	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
94	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
95	The design and performance of IceCube DeepCore. <i>Astroparticle Physics</i> , 2012, 35, 615-624.	4.3	222
96	IceCube sensitivity for low-energy neutrinos from nearby supernovae. <i>Astronomy and Astrophysics</i> , 2011, 535, A109.	5.1	121