

# Hershal Pandya

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

5,269  
citations

126907

33  
h-index

82547

72  
g-index

82  
all docs

82  
docs citations

82  
times ranked

6684  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Relationship of Lightning Radio Pulse Amplitudes and Source Altitudes as Observed by LOFAR. <i>Earth and Space Science</i> , 2022, 9, e2021EA001958.	2.6	3
2	Search for Relativistic Magnetic Monopoles with Eight Years of IceCube Data. <i>Physical Review Letters</i> , 2022, 128, 051101.	7.8	12
3	Search for High-energy Neutrinos from Ultraluminous Infrared Galaxies with IceCube. <i>Astrophysical Journal</i> , 2022, 926, 59.	4.5	7
4	Improved Characterization of the Astrophysical Muon neutrino Flux with 9.5 Years of IceCube Data. <i>Astrophysical Journal</i> , 2022, 928, 50.	4.5	67
5	The Initial Stage of Cloud Lightning Imaged in High-Resolution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033126.	3.3	20
6	Needle Propagation and Twinkling Characteristics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034252.	3.3	10
7	Detection of a particle shower at the Glashow resonance with IceCube. <i>Nature</i> , 2021, 591, 220-224.	27.8	86
8	Follow-up of Astrophysical Transients in Real Time with the IceCube Neutrino Observatory. <i>Astrophysical Journal</i> , 2021, 910, 4.	4.5	18
9	Design and sensitivity of the Radio Neutrino Observatory in Greenland (RNO-G). <i>Journal of Instrumentation</i> , 2021, 16, P03025.	1.2	52
10	A Search for Time-dependent Astrophysical Neutrino Emission with IceCube Data from 2012 to 2017. <i>Astrophysical Journal</i> , 2021, 911, 67.	4.5	9
11	Depth of shower maximum and mass composition of cosmic rays from 50 PeV to 2 EeV measured with the LOFAR radio telescope. <i>Physical Review D</i> , 2021, 103, .	4.7	19
12	IceCube high-energy starting event sample: Description and flux characterization with 7.5 years of data. <i>Physical Review D</i> , 2021, 104, .	4.7	142
13	Timing Calibration and Windowing Technique Comparison for Lightning Mapping Arrays. <i>Earth and Space Science</i> , 2021, 8, e2020EA001523.	2.6	0
14	A convolutional neural network based cascade reconstruction for the IceCube Neutrino Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P07041.	1.2	29
15	A distinct negative leader propagation mode. <i>Scientific Reports</i> , 2021, 11, 16256.	3.3	9
16	A muon-track reconstruction exploiting stochastic losses for large-scale Cherenkov detectors. <i>Journal of Instrumentation</i> , 2021, 16, P08034.	1.2	11
17	LeptonInjector and LeptonWeighter: A neutrino event generator and weighter for neutrino observatories. <i>Computer Physics Communications</i> , 2021, 266, 108018.	7.5	8
18	Distinguishing features of high altitude negative leaders as observed with LOFAR. <i>Atmospheric Research</i> , 2021, 260, 105688.	4.1	8

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19	Search for Multi-flare Neutrino Emissions in 10 yr of IceCube Data from a Catalog of Sources. <i>Astrophysical Journal Letters</i> , 2021, 920, L45.	8.3	12
20	Neutrinos below 100 TeV from the southern sky employing refined veto techniques to IceCube data. <i>Astroparticle Physics</i> , 2020, 116, 102392.	4.3	3
21	Searching for eV-scale sterile neutrinos with eight years of atmospheric neutrinos at the IceCube Neutrino Telescope. <i>Physical Review D</i> , 2020, 102, .	4.7	34
22	Design and performance of the first IceAct demonstrator at the South Pole. <i>Journal of Instrumentation</i> , 2020, 15, T02002-T02002.	1.2	3
23	In-situ calibration of the single-photoelectron charge response of the IceCube photomultiplier tubes. <i>Journal of Instrumentation</i> , 2020, 15, P06032-P06032.	1.2	14
24	IceCube Search for Neutrinos Coincident with Compact Binary Mergers from LIGO-Virgo's First Gravitational-wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2020, 898, L10.	8.3	30
25	Constraints on neutrino emission from nearby galaxies using the 2MASS redshift survey and IceCube. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 042-042.	5.4	5
26	Velocity independent constraints on spin-dependent DM-nucleon interactions from IceCube and PICO. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	6
27	Characteristics of the Diffuse Astrophysical Electron and Tau Neutrino Flux with Six Years of IceCube High Energy Cascade Data. <i>Physical Review Letters</i> , 2020, 125, 121104.	7.8	137
28	A Search for IceCube Events in the Direction of ANITA Neutrino Candidates. <i>Astrophysical Journal</i> , 2020, 892, 53.	4.5	20
29	Reconstructing air shower parameters with LOFAR using event specific GDAS atmosphere. <i>Astroparticle Physics</i> , 2020, 123, 102470.	4.3	10
30	Radio Emission Reveals Inner Meter-Scale Structure of Negative Lightning Leader Steps. <i>Physical Review Letters</i> , 2020, 124, 105101.	7.8	28
31	Search for PeV Gamma-Ray Emission from the Southern Hemisphere with 5 Yr of Data from the IceCube Observatory. <i>Astrophysical Journal</i> , 2020, 891, 9.	4.5	12
32	Time-Integrated Neutrino Source Searches with 10 Years of IceCube Data. <i>Physical Review Letters</i> , 2020, 124, 051103.	7.8	221
33	Determining Electric Fields in Thunderclouds With the Radiotelescope LOFAR. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031433.	3.3	8
34	On the cosmic-ray energy scale of the LOFAR radio telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 017-017.	5.4	7
35	eV-Scale Sterile Neutrino Search Using Eight Years of Atmospheric Muon Neutrino Data from the IceCube Neutrino Observatory. <i>Physical Review Letters</i> , 2020, 125, 141801.	7.8	57
36	Development of an analysis to probe the neutrino mass ordering with atmospheric neutrinos using three years of IceCube DeepCore data. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	12

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37	A Search for MeV to TeV Neutrinos from Fast Radio Bursts with IceCube. <i>Astrophysical Journal</i> , 2020, 890, 111.	4.5	20
38	A Search for Neutrino Point-source Populations in 7 yr of IceCube Data with Neutrino-count Statistics. <i>Astrophysical Journal</i> , 2020, 893, 102.	4.5	11
39	IceCube Search for High-energy Neutrino Emission from TeV Pulsar Wind Nebulae. <i>Astrophysical Journal</i> , 2020, 898, 117.	4.5	21
40	Investigation of Two Fermi-LAT Gamma-Ray Blazars Coincident with High-energy Neutrinos Detected by IceCube. <i>Astrophysical Journal</i> , 2019, 880, 103.	4.5	60
41	Search for Sources of Astrophysical Neutrinos Using Seven Years of IceCube Cascade Events. <i>Astrophysical Journal</i> , 2019, 886, 12.	4.5	53
42	Search for steady point-like sources in the astrophysical muon neutrino flux with 8 years of IceCube data. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	75
43	Detection of the Temporal Variation of the Sun's Cosmic Ray Shadow with the IceCube Detector. <i>Astrophysical Journal</i> , 2019, 872, 133.	4.5	7
44	Constraints on Minute-Scale Transient Astrophysical Neutrino Sources. <i>Physical Review Letters</i> , 2019, 122, 051102.	7.8	23
45	Measurements using the inelasticity distribution of multi-TeV neutrino interactions in IceCube. <i>Physical Review D</i> , 2019, 99, .	4.7	55
46	Measurement of Atmospheric Neutrino Oscillations at $6 \times 10^5$ GeV with IceCube DeepCore. <i>Physical Review Letters</i> , 2018, 120, 071801.	7.8	88
47	Astrophysical neutrinos and cosmic rays observed by IceCube. <i>Advances in Space Research</i> , 2018, 62, 2902-2930.	2.6	20
48	Search for neutrinos from decaying dark matter with IceCube. <i>European Physical Journal C</i> , 2018, 78, 831.	3.9	62
49	Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. <i>Science</i> , 2018, 361, .	12.6	654
50	Neutrino emission from the direction of the blazar TXS 0506+056 prior to the IceCube-170922A alert. <i>Science</i> , 2018, 361, 147-151.	12.6	601
51	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
52	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
53	THE CONTRIBUTION OF FERMI-2LAC BLAZARS TO DIFFUSE $10^5$ - $10^6$ PEV NEUTRINO FLUX. <i>Astrophysical Journal</i> , 2017, 835, 45.	4.5	186
54	The IceCube realtime alert system. <i>Astroparticle Physics</i> , 2017, 92, 30-41.	4.3	116

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55	The IceCube Neutrino Observatory: instrumentation and online systems. <i>Journal of Instrumentation</i> , 2017, 12, P03012-P03012.	1.2	390
56	Search for Astrophysical Sources of Neutrinos Using Cascade Events in IceCube. <i>Astrophysical Journal</i> , 2017, 846, 136.	4.5	21
57	Search for annihilating dark matter in the Sun with 3 years of IceCube data. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	111
58	Measurement of the $\mu$ energy spectrum with IceCube-79. <i>European Physical Journal C</i> , 2017, 77, 692.	3.9	24
59	Constraints on Galactic Neutrino Emission with Seven Years of IceCube Data. <i>Astrophysical Journal</i> , 2017, 849, 67.	4.5	95
60	Extending the Search for Muon Neutrinos Coincident with Gamma-Ray Bursts in IceCube Data. <i>Astrophysical Journal</i> , 2017, 843, 112.	4.5	116
61	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
62	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
63	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
64	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
65	Constraints on Ultrahigh-Energy Cosmic-Ray Sources from a Search for Neutrinos above 10 PeV with IceCube. <i>Physical Review Letters</i> , 2016, 117, 241101.	7.8	111
66	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
67	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
68	Searches for Sterile Neutrinos with the IceCube Detector. <i>Physical Review Letters</i> , 2016, 117, 071801.	7.8	140
69	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
70	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
71	LOWERING ICECUBE'S ENERGY THRESHOLD FOR POINT SOURCE SEARCHES IN THE SOUTHERN SKY. <i>Astrophysical Journal Letters</i> , 2016, 824, L28.	8.3	27
72	Characterization of the atmospheric muon flux in IceCube. <i>Astroparticle Physics</i> , 2016, 78, 1-27.	4.3	51

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73	Searches for relativistic magnetic monopoles in IceCube. European Physical Journal C, 2016, 76, 1.	3.9	29
74	THE SEARCH FOR TRANSIENT ASTROPHYSICAL NEUTRINO EMISSION WITH ICECUBE-DEEPCORE. Astrophysical Journal, 2016, 816, 75.	4.5	5
75	THE DETECTION OF A SN II <sub>in</sub> IN OPTICAL FOLLOW-UP OBSERVATIONS OF ICECUBE NEUTRINO EVENTS. Astrophysical Journal, 2015, 811, 52.	4.5	39