

Ibrahim Torres

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,246
citations

201674

27
h-index

144013

57
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63
all docs

63
docs citations

63
times ranked

3220
citing authors

#	ARTICLE	IF	CITATIONS
1	Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. <i>Science</i> , 2018, 361, .	12.6	654
2	Extended gamma-ray sources around pulsars constrain the origin of the positron flux at Earth. <i>Science</i> , 2017, 358, 911-914.	12.6	303
3	Observation of a narrow charm baryon Λ_c^+ . <i>Physical Review Letters</i> , 2004, 93, 242001.	4.1	252
4	The 2HWC HAWC Observatory Gamma-Ray Catalog. <i>Astrophysical Journal</i> , 2017, 843, 40.	4.5	200
5	Observation of the Crab Nebula with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2017, 843, 39.	4.5	159
6	Sensitivity of the high altitude water Cherenkov detector to sources of multi-TeV gamma rays. <i>Astroparticle Physics</i> , 2013, 50-52, 26-32.	4.3	156
7	Multiple Galactic Sources with Emission Above 56 TeV Detected by HAWC. <i>Physical Review Letters</i> , 2020, 124, 021102.	7.8	143
8	On the sensitivity of the HAWC observatory to gamma-ray bursts. <i>Astroparticle Physics</i> , 2012, 35, 641-650.	4.3	100
9	3HWC: The Third HAWC Catalog of Very-high-energy Gamma-Ray Sources. <i>Astrophysical Journal</i> , 2020, 905, 76.	4.5	99
10	Measurement of the Crab Nebula Spectrum Past 100 TeV with HAWC. <i>Astrophysical Journal</i> , 2019, 881, 134.	4.5	98
11	Observation of a Narrow Charm-Strange Meson D_s^+ and D_0^+ . <i>Physical Review Letters</i> , 2004, 93, 242001.	7.8	82
12	Very-high-energy particle acceleration powered by the jets of the microquasar SS 433. <i>Nature</i> , 2018, 562, 82-85.	27.8	75
13	OBSERVATION OF SMALL-SCALE ANISOTROPY IN THE ARRIVAL DIRECTION DISTRIBUTION OF TeV COSMIC RAYS WITH HAWC. <i>Astrophysical Journal</i> , 2014, 796, 108.	4.5	71
14	Dark Matter Limits from Dwarf Spheroidal Galaxies with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2018, 853, 154.	4.5	69
15	HAWC observations of the acceleration of very-high-energy cosmic rays in the Cygnus Cocoon. <i>Nature Astronomy</i> , 2021, 5, 465-471.	10.1	62
16	All-particle cosmic ray energy spectrum measured by the HAWC experiment from 10 to 500 TeV. <i>Physical Review D</i> , 2017, 96, .	4.7	56
17	HAWC J2227+610 and Its Association with G106.3+2.7, a New Potential Galactic PeVatron. <i>Astrophysical Journal Letters</i> , 2020, 896, L29.	8.3	48
18	Daily Monitoring of TeV Gamma-Ray Emission from Mrk 421, Mrk 501, and the Crab Nebula with HAWC. <i>Astrophysical Journal</i> , 2017, 841, 100.	4.5	39

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19	Sensitivity of HAWC to high-mass dark matter annihilations. <i>Physical Review D</i> , 2014, 90, .	4.7	38
20	Constraints on spin-dependent dark matter scattering with long-lived mediators from TeV observations of the Sun with HAWC. <i>Physical Review D</i> , 2018, 98, .	4.7	37
21	A search for dark matter in the Galactic halo with HAWC. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 049-049.	5.4	36
22	Evidence of 200 TeV Photons from HAWC J1825-134. <i>Astrophysical Journal Letters</i> , 2021, 907, L30.	8.3	34
23	SEARCH FOR TeV GAMMA-RAY EMISSION FROM POINT-LIKE SOURCES IN THE INNER GALACTIC PLANE WITH A PARTIAL CONFIGURATION OF THE HAWC OBSERVATORY. <i>Astrophysical Journal</i> , 2016, 817, 3.	4.5	33
24	All-sky Measurement of the Anisotropy of Cosmic Rays at 10 TeV and Mapping of the Local Interstellar Magnetic Field. <i>Astrophysical Journal</i> , 2019, 871, 96.	4.5	32
25	Evidence that Ultra-high-energy Gamma Rays Are a Universal Feature near Powerful Pulsars. <i>Astrophysical Journal Letters</i> , 2021, 911, L27.	8.3	32
26	SEARCH FOR GAMMA-RAYS FROM THE UNUSUALLY BRIGHT GRB 130427A WITH THE HAWC GAMMA-RAY OBSERVATORY. <i>Astrophysical Journal</i> , 2015, 800, 78.	4.5	30
27	Search for Very High-energy Gamma Rays from the Northern Fermi Bubble Region with HAWC. <i>Astrophysical Journal</i> , 2017, 842, 85.	4.5	28
28	Observation of Anisotropy of TeV Cosmic Rays with Two Years of HAWC. <i>Astrophysical Journal</i> , 2018, 865, 57.	4.5	25
29	Milagro limits and HAWC sensitivity for the rate-density of evaporating Primordial Black Holes. <i>Astroparticle Physics</i> , 2015, 64, 4-12.	4.3	24
30	First HAWC observations of the Sun constrain steady TeV gamma-ray emission. <i>Physical Review D</i> , 2018, 98, .	4.7	19
31	The HAWC Real-time Flare Monitor for Rapid Detection of Transient Events. <i>Astrophysical Journal</i> , 2017, 843, 116.	4.5	16
32	Data acquisition architecture and online processing system for the HAWC gamma-ray observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 888, 138-146.	1.6	16
33	Spectrum and Morphology of the Very-high-energy Source HAWC J2019+368. <i>Astrophysical Journal</i> , 2021, 911, 143.	4.5	14
34	A Survey of Active Galaxies at TeV Photon Energies with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2021, 907, 67.	4.5	13
35	Search for Very-high-energy Emission from Gamma-Ray Bursts Using the First 18 Months of Data from the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2017, 843, 88.	4.5	12
36	VAMOS: A pathfinder for the HAWC gamma-ray observatory. <i>Astroparticle Physics</i> , 2015, 62, 125-133.	4.3	11

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37	Search for dark matter gamma-ray emission from the Andromeda Galaxy with the High-Altitude Water Cherenkov Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 043-043.	5.4	11
38	Constraining the $\langle \sigma v \rangle$ of dark matter annihilation into $p\bar{p}$ pairs in TeV cosmic rays with observations of the Moon shadow by HAWC. <i>Physical Review D</i> , 2018, 97, .	4.7	9
39	Searching for dark matter sub-structure with HAWC. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 022-022.	5.4	9
40	Probing the Sea of Cosmic Rays by Measuring Gamma-Ray Emission from Passive Giant Molecular Clouds with HAWC. <i>Astrophysical Journal</i> , 2021, 914, 106.	4.5	9
41	Multimessenger Gamma-Ray and Neutrino Coincidence Alerts Using HAWC and IceCube Subthreshold Data. <i>Astrophysical Journal</i> , 2021, 906, 63.	4.5	9
42	Two RICH detectors as velocity spectrometers in the CKM experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 502, 62-66.	1.6	8
43	Long-term Spectra of the Blazars Mrk 421 and Mrk 501 at TeV Energies Seen by HAWC. <i>Astrophysical Journal</i> , 2022, 929, 125.	4.5	8
44	Calibration of a large water-Cherenkov detector at the Sierra Negra site of LAGO. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 861, 28-37.	1.6	7
45	MAGIC and Fermi-LAT gamma-ray results on unassociated HAWC sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 356-366.	4.4	7
46	Fair Weather Neutron Bursts From Photonuclear Reactions by Extensive Air Shower Core Interactions in the Ground and Implications for Terrestrial Gamma-ray Flash Signatures. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090033.	4.0	7
47	Nuclear dependence of charm production. <i>European Physical Journal C</i> , 2009, 64, 637-644.	3.9	6
48	HAWC Study of the Ultra-high-energy Spectrum of MGRO J1908+06. <i>Astrophysical Journal</i> , 2022, 928, 116.	4.5	6
49	HAWC and Fermi-LAT Detection of Extended Emission from the Unidentified Source 2HWC J2006+341. <i>Astrophysical Journal Letters</i> , 2020, 903, L14.	8.3	5
50	First observation of the Cabibbo-suppressed decays $B_c^{\pm} \rightarrow \bar{D}^{\pm} \pi^{\pm}$ and $B_c^{\pm} \rightarrow \bar{D}^{\pm} \rho^{\pm}$. <i>Physical Review Letters</i> , 2019, 123, 021801.	4.1	3
51	The transverse momentum dependence of charged kaon Bose-Einstein correlations in the SELEX experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 753, 458-464.	4.1	3
52	HAWC Search for High-mass Microquasars. <i>Astrophysical Journal Letters</i> , 2021, 912, L4.	8.3	3
53	Gamma/hadron separation with the HAWC observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022, 1039, 166984.	1.6	3
54	Gamma/hadron separation in HAWC using neural networks. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2

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55	HAWC as a Ground-Based Space-Weather Observatory. Solar Physics, 2021, 296, 1.	2.5	2
56	Interplanetary Magnetic Flux Rope Observed at Ground Level by HAWC. Astrophysical Journal, 2020, 905, 73.	4.5	2
57	Characterization of the background for a neutrino search with the HAWC observatory. Astroparticle Physics, 2022, 137, 102670.	4.3	2
58	Characterization of a outer detector (outriggers) for HAWC. Journal of Physics: Conference Series, 2017, 792, 012094.	0.4	1
59	System for photomultiplier tubes characterization and data acquisition for water Cherenkov detectors. Proceedings of SPIE, 2014, , .	0.8	0
60	Probing the Extragalactic Mid-infrared Background with HAWC. Astrophysical Journal, 2022, 933, 223.	4.5	0