

MarÃ-a Catalina Espinoza HernÃ;ndez

List of Publications by Year in descending order

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28
papers

803
citations

687363

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501196

28
g-index

29
all docs

29
docs citations

29
times ranked

941
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the background for a neutrino search with the HAWC observatory. <i>Astroparticle Physics</i> , 2022, 137, 102670.	4.3	2
2	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
3	Scalar field dark matter with two components: Combined approach from particle physics and cosmology. <i>Physical Review D</i> , 2022, 105, .	4.7	5
4	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
5	Probing the Extragalactic Mid-infrared Background with HAWC. <i>Astrophysical Journal</i> , 2022, 933, 223.	4.5	0
6	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
7	Evidence of 200 TeV Photons from HAWC J1825-134. <i>Astrophysical Journal Letters</i> , 2021, 907, L30.	8.3	34
8	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
9	Spectrum and Morphology of the Very-high-energy Source HAWC J2019+368. <i>Astrophysical Journal</i> , 2021, 911, 143.	4.5	14
10	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
11	HAWC Search for High-mass Microquasars. <i>Astrophysical Journal Letters</i> , 2021, 912, L4.	8.3	3
12	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
13	HAWC as a Ground-Based Space-Weather Observatory. <i>Solar Physics</i> , 2021, 296, 1.	2.5	2
14	Multimessenger Gamma-Ray and Neutrino Coincidence Alerts Using HAWC and IceCube Subthreshold Data. <i>Astrophysical Journal</i> , 2021, 906, 63.	4.5	9
15	Constraining the local burst rate density of primordial black holes with HAWC. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 026-026.	5.4	16
16	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
17	Constraints on Lorentz Invariance Violation from HAWC Observations of Gamma Rays above 100 TeV. <i>Physical Review Letters</i> , 2020, 124, 131101.	7.8	40
18	Search for gamma-ray spectral lines from dark matter annihilation in dwarf galaxies with the High-Altitude Water Cherenkov observatory. <i>Physical Review D</i> , 2020, 101, .	4.7	18

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19	Multiple Galactic Sources with Emission Above 56 TeV Detected by HAWC. <i>Physical Review Letters</i> , 2020, 124, 021102.	7.8	143
20	An Inert Scalar In The S3 Symmetric Model.. <i>Journal of Physics: Conference Series</i> , 2020, 1586, 012025.	0.4	2
21	3HWC: The Third HAWC Catalog of Very-high-energy Gamma-Ray Sources. <i>Astrophysical Journal</i> , 2020, 905, 76.	4.5	99
22	Interplanetary Magnetic Flux Rope Observed at Ground Level by HAWC. <i>Astrophysical Journal</i> , 2020, 905, 73.	4.5	2
23	Searching for dark matter sub-structure with HAWC. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 022-022.	5.4	9
24	Measurement of the Crab Nebula Spectrum Past 100 TeV with HAWC. <i>Astrophysical Journal</i> , 2019, 881, 134.	4.5	98
25	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
26	The S3 symmetric model with a dark scalar. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 788, 185-191.	4.1	11
27	Very-high-energy particle acceleration powered by the jets of the microquasar SS 433. <i>Nature</i> , 2018, 562, 82-85.	27.8	75
28	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