

Edna Loredana Ruiz Velasco

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,553
citations

201674

27
h-index

197818

49
g-index

64
all docs

64
docs citations

64
times ranked

2371
citing authors

#	ARTICLE	IF	CITATIONS
1	Gamma/hadron separation with the HAWC observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1039, 166984.	1.6	3
2	A Survey of Active Galaxies at TeV Photon Energies with the HAWC Gamma-Ray Observatory. Astrophysical Journal, 2021, 907, 67.	4.5	13
3	HAWC observations of the acceleration of very-high-energy cosmic rays in the Cygnus Cocoon. Nature Astronomy, 2021, 5, 465-471.	10.1	62
4	Spectrum and Morphology of the Very-high-energy Source HAWC J2019+368. Astrophysical Journal, 2021, 911, 143.	4.5	14
5	H.E.S.S. and MAGIC observations of a sudden cessation of a very-high-energy γ -ray flare in PKS 1510+089 in May 2016. Astronomy and Astrophysics, 2021, 648, A23.	5.1	18
6	Evidence that Ultra-high-energy Gamma Rays Are a Universal Feature near Powerful Pulsars. Astrophysical Journal Letters, 2021, 911, L27.	8.3	32
7	Search for dark matter annihilation in the Wolf-Lundmark-Melotte dwarf irregular galaxy with H.E.S.S.. Physical Review D, 2021, 103, .	4.7	13
8	Probing the Sea of Cosmic Rays by Measuring Gamma-Ray Emission from Passive Giant Molecular Clouds with HAWC. Astrophysical Journal, 2021, 914, 106.	4.5	9
9	Revealing x-ray and gamma ray temporal and spectral similarities in the GRB 190829A afterglow. Science, 2021, 372, 1081-1085.	12.6	86
10	Search for Dark Matter Annihilation Signals from Unidentified Fermi-LAT Objects with H.E.S.S.. Astrophysical Journal, 2021, 918, 17.	4.5	10
11	LMC N132D: A mature supernova remnant with a power-law gamma-ray spectrum extending beyond 8 TeV. Astronomy and Astrophysics, 2021, 655, A7.	5.1	6
12	Evidence of 100 TeV γ -ray emission from HESS J1702-420: A new PeVatron candidate. Astronomy and Astrophysics, 2021, 653, A152.	5.1	19
13	Gamma-ray burst detection prospects for next generation ground-based VHE facilities. Monthly Notices of the Royal Astronomical Society, 2021, 508, 671-679.	4.4	4
14	Searching for TeV Gamma-Ray Emission from SGR 1935+2154 during Its 2020 X-Ray and Radio Bursting Phase. Astrophysical Journal, 2021, 919, 106.	4.5	6
15	H.E.S.S. Follow-up Observations of Binary Black Hole Coalescence Events during the Second and Third Gravitational-wave Observing Runs of Advanced LIGO and Advanced Virgo. Astrophysical Journal, 2021, 923, 109.	4.5	6
16	Search for dark matter signals towards a selection of recently detected DES dwarf galaxy satellites of the Milky Way with H.E.S.S.. Physical Review D, 2020, 102, .	4.7	28
17	Probing the Magnetic Field in the GW170817 Outflow Using H.E.S.S. Observations. Astrophysical Journal Letters, 2020, 894, L16.	8.3	9
18	Resolving acceleration to very high energies along the jet of Centaurus A. Nature, 2020, 582, 356-359.	27.8	37

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19	Detection of very-high-energy γ -ray emission from the colliding wind binary η Car with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2020, 635, A167.	5.1	20
20	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
21	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
22	Multiple Galactic Sources with Emission Above 56 TeV Detected by HAWC. <i>Physical Review Letters</i> , 2020, 124, 021102.	7.8	143
23	H.E.S.S. and <i>Fermi</i> -LAT observations of PSR B1259-63/LS 2883 during its 2014 and 2017 periastron passages. <i>Astronomy and Astrophysics</i> , 2020, 633, A102.	5.1	17
24	H.E.S.S. detection of very high-energy γ -ray emission from the quasar PKS 0736+017. <i>Astronomy and Astrophysics</i> , 2020, 633, A162.	5.1	15
25	Very high energy γ -ray emission from two blazars of unknown redshift and upper limits on their distance. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 5590-5602.	4.4	19
26	Simultaneous observations of the blazar PKS 2155-304 from ultra-violet to TeV energies. <i>Astronomy and Astrophysics</i> , 2020, 639, A42.	5.1	7
27	An extreme particle accelerator in the Galactic plane: HESS J1826-130. <i>Astronomy and Astrophysics</i> , 2020, 644, A112.	5.1	14
28	3HWC: The Third HAWC Catalog of Very-high-energy Gamma-Ray Sources. <i>Astrophysical Journal</i> , 2020, 905, 76.	4.5	99
29	Upper limits on very-high-energy gamma-ray emission from core-collapse supernovae observed with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2019, 626, A57.	5.1	9
30	Measurement of the Crab Nebula Spectrum Past 100 TeV with HAWC. <i>Astrophysical Journal</i> , 2019, 881, 134.	4.5	98
31	MAGIC and <i>Fermi</i> -LAT gamma-ray results on unassociated HAWC sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 356-366.	4.4	7
32	H.E.S.S. observations of the flaring gravitationally lensed galaxy PKS 1830-211. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3886-3891.	4.4	5
33	H.E.S.S. and <i>Suzaku</i> observations of the Vela X pulsar wind nebula. <i>Astronomy and Astrophysics</i> , 2019, 627, A100.	5.1	15
34	A very-high-energy component deep in the γ -ray burst afterglow. <i>Nature</i> , 2019, 575, 464-467.	27.8	166
35	Constraints on the emission region of 3C 279 during strong flares in 2014 and 2015 through VHE γ -ray observations with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2019, 627, A159.	5.1	32
36	Particle transport within the pulsar wind nebula HESS J1825-137. <i>Astronomy and Astrophysics</i> , 2019, 621, A116.	5.1	57

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37	The 2014 TeV $\hat{\nu}$ -Ray Flare of Mrk 501 Seen with H.E.S.S.: Temporal and Spectral Constraints on Lorentz Invariance Violation. <i>Astrophysical Journal</i> , 2019, 870, 93.	4.5	47
38	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
39	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
40	Dark Matter Limits from Dwarf Spheroidal Galaxies with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2018, 853, 154.	4.5	69
41	Searches for gamma-ray lines and $\hat{\nu}$ -pure WIMP $\hat{\nu}$ spectra from Dark Matter annihilations in dwarf galaxies with H.E.S.S.. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 037-037.	5.4	30
42	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
43	First HAWC observations of the Sun constrain steady TeV gamma-ray emission. <i>Physical Review D</i> , 2018, 98, .	4.7	19
44	The starburst galaxy NGC 253 revisited by H.E.S.S. and <i>Fermi</i> -LAT. <i>Astronomy and Astrophysics</i> , 2018, 617, A73.	5.1	41
45	First ground-based measurement of sub-20 GeV to 100 GeV $\hat{\nu}$ -Rays from the Vela pulsar with H.E.S.S. II. <i>Astronomy and Astrophysics</i> , 2018, 620, A66.	5.1	32
46	Observation of Anisotropy of TeV Cosmic Rays with Two Years of HAWC. <i>Astrophysical Journal</i> , 2018, 865, 57.	4.5	25
47	Very-high-energy particle acceleration powered by the jets of the microquasar SS 433. <i>Nature</i> , 2018, 562, 82-85.	27.8	75
48	Constraining the $\hat{\nu}$ -ray to positron ratio in TeV cosmic rays with observations of the Moon shadow by HAWC. <i>Physical Review D</i> , 2018, 97, .	4.7	9
49	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
50	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
51	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
52	The HAWC Real-time Flare Monitor for Rapid Detection of Transient Events. <i>Astrophysical Journal</i> , 2017, 843, 116.	4.5	16
53	All-particle cosmic ray energy spectrum measured by the HAWC experiment from 10 to 500 $\hat{\nu}$ TeV. <i>Physical Review D</i> , 2017, 96, .	4.7	56
54	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

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55	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
56	The 2HWC HAWC Observatory Gamma-Ray Catalog. <i>Astrophysical Journal</i> , 2017, 843, 40.	4.5	200
57	Observation of the Crab Nebula with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2017, 843, 39.	4.5	159
58	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
59	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
60	VHE γ -ray discovery and multi-wavelength study of the blazar 1ES 2322-409. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	3