

# 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	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
2	The 2HWC HAWC Observatory Gamma-Ray Catalog. <i>Astrophysical Journal</i> , 2017, 843, 40.	4.5	200
3	A very-high-energy component deep in the $\hat{\Gamma}^3$ -ray burst afterglow. <i>Nature</i> , 2019, 575, 464-467.	27.8	166
4	Observation of the Crab Nebula with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2017, 843, 39.	4.5	159
5	Multiple Galactic Sources with Emission Above 56 $\hat{\text{A}}\text{TeV}$ Detected by HAWC. <i>Physical Review Letters</i> , 2020, 124, 021102.	7.8	143
6	3HWC: The Third HAWC Catalog of Very-high-energy Gamma-Ray Sources. <i>Astrophysical Journal</i> , 2020, 905, 76.	4.5	99
7	Measurement of the Crab Nebula Spectrum Past 100 TeV with HAWC. <i>Astrophysical Journal</i> , 2019, 881, 134.	4.5	98
8	Revealing x-ray and gamma ray temporal and spectral similarities in the GRB 190829A afterglow. <i>Science</i> , 2021, 372, 1081-1085.	12.6	86
9	Very-high-energy particle acceleration powered by the jets of the microquasar SS 433. <i>Nature</i> , 2018, 562, 82-85.	27.8	75
10	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
11	Dark Matter Limits from Dwarf Spheroidal Galaxies with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2018, 853, 154.	4.5	69
12	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
13	Particle transport within the pulsar wind nebula HESS J1825 $\hat{\text{A}}\text{E}$ 137. <i>Astronomy and Astrophysics</i> , 2019, 621, A116.	5.1	57
14	All-particle cosmic ray energy spectrum measured by the HAWC experiment from 10 to 500 $\hat{\text{A}}\text{TeV}$ . <i>Physical Review D</i> , 2017, 96, .	4.7	56
15	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
16	The 2014 TeV $\hat{\Gamma}^3$ -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
17	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
18	Constraints on Lorentz Invariance Violation from HAWC Observations of Gamma Rays above 100 $\hat{\text{A}}\text{TeV}$ . <i>Physical Review Letters</i> , 2020, 124, 131101.	7.8	40

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19	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
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	Resolving acceleration to very high energies along the jet of Centaurus A. <i>Nature</i> , 2020, 582, 356-359.	27.8	37
22	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
23	First ground-based measurement of sub-20 GeV to 100 GeV $\gamma$ -Rays from the Vela pulsar with H.E.S.S. II. <i>Astronomy and Astrophysics</i> , 2018, 620, A66.	5.1	32
24	Constraints on the emission region of 3C 279 during strong flares in 2014 and 2015 through VHE $\gamma$ -ray observations with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2019, 627, A159.	5.1	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	Searches for gamma-ray lines and $\tilde{\chi}$ -pure WIMP 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
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	Search for dark matter signals towards a selection of recently detected DES dwarf galaxy satellites of the Milky Way with H.E.S.S.. <i>Physical Review D</i> , 2020, 102, .	4.7	28
29	Observation of Anisotropy of TeV Cosmic Rays with Two Years of HAWC. <i>Astrophysical Journal</i> , 2018, 865, 57.	4.5	25
30	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
31	Detection of very-high-energy $\gamma$ -ray emission from the colliding wind binary $\gamma$ Cas with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2020, 635, A167.	5.1	20
32	First HAWC observations of the Sun constrain steady TeV gamma-ray emission. <i>Physical Review D</i> , 2018, 98, .	4.7	19
33	Very high energy $\gamma$ -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
34	Evidence of 100 TeV $\gamma$ -ray emission from HESS J1702-420: A new PeVatron candidate. <i>Astronomy and Astrophysics</i> , 2021, 653, A152.	5.1	19
35	H.E.S.S. and MAGIC observations of a sudden cessation of a very-high-energy $\gamma$ -ray flare in PKS 1510-089 in May 2016. <i>Astronomy and Astrophysics</i> , 2021, 648, A23.	5.1	18
36	H.E.S.S. and Fermi-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

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37	The HAWC Real-time Flare Monitor for Rapid Detection of Transient Events. <i>Astrophysical Journal</i> , 2017, 843, 116.	4.5	16
38	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
39	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
40	H.E.S.S. detection of very high-energy $\gamma$ -ray emission from the quasar PKS 0736+017. <i>Astronomy and Astrophysics</i> , 2020, 633, A162.	5.1	15
41	Spectrum and Morphology of the Very-high-energy Source HAWC J2019+368. <i>Astrophysical Journal</i> , 2021, 911, 143.	4.5	14
42	An extreme particle accelerator in the Galactic plane: HESS J1826 $\hat{a}$ ~130. <i>Astronomy and Astrophysics</i> , 2020, 644, A112.	5.1	14
43	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
44	Search for dark matter annihilation in the Wolf-Lundmark-Melotte dwarf irregular galaxy with H.E.S.S.. <i>Physical Review D</i> , 2021, 103, .	4.7	13
45	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
46	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
47	Search for Dark Matter Annihilation Signals from Unidentified Fermi-LAT Objects with H.E.S.S.. <i>Astrophysical Journal</i> , 2021, 918, 17.	4.5	10
48	Constraining the $\langle \sigma v \rangle$ ratio in TeV cosmic rays with observations of the Moon shadow by HAWC. <i>Physical Review D</i> , 2018, 97, .	4.7	9
49	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
50	Probing the Magnetic Field in the GW170817 Outflow Using H.E.S.S. Observations. <i>Astrophysical Journal Letters</i> , 2020, 894, L16.	8.3	9
51	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
52	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
53	Simultaneous observations of the blazar PKS 2155 $\hat{a}$ ~304 from ultra-violet to TeV energies. <i>Astronomy and Astrophysics</i> , 2020, 639, A42.	5.1	7
54	LMC N132D: A mature supernova remnant with a power-law gamma-ray spectrum extending beyond 8 TeV. <i>Astronomy and Astrophysics</i> , 2021, 655, A7.	5.1	6

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55	Searching for TeV Gamma-Ray Emission from SGR 1935+2154 during Its 2020 X-Ray and Radio Bursting Phase. <i>Astrophysical Journal</i> , 2021, 919, 106.	4.5	6
56	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. <i>Astrophysical Journal</i> , 2021, 923, 109.	4.5	6
57	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
58	Gamma-ray burst detection prospects for next generation ground-based VHE facilities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 671-679.	4.4	4
59	VHE $\gamma$ -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
60	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