Arnulfo Zepeda

List of Publications by Year in descending order

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95 papers	3,987 citations	172457 29 h-index	114465 63 g-index
95 all docs	95 docs citations	95 times ranked	5836 citing authors

#	Article	IF	Citations
1	HAWC Study of the Ultra-high-energy Spectrum of MGRO J1908+06. Astrophysical Journal, 2022, 928, 116.	4.5	6
2	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
3	A Survey of Active Galaxies at TeV Photon Energies with the HAWC Gamma-Ray Observatory. Astrophysical Journal, 2021, 907, 67.	4.5	13
4	HAWC observations of the acceleration of very-high-energy cosmic rays in the Cygnus Cocoon. Nature Astronomy, 2021, 5, 465-471.	10.1	62
5	HAWC as a Ground-Based Space-Weather Observatory. Solar Physics, 2021, 296, 1.	2.5	2
6	Multimessenger Gamma-Ray and Neutrino Coincidence Alerts Using HAWC and IceCube Subthreshold Data. Astrophysical Journal, 2021, 906, 63.	4.5	9
7	HAWC J2227+610 and Its Association with G106.3+2.7, a New Potential Galactic PeVatron. Astrophysical Journal Letters, 2020, 896, L29.	8.3	48
8	Constraints on Lorentz Invariance Violation from HAWC Observations of Gamma Rays above 100ÂTeV. Physical Review Letters, 2020, 124, 131101.	7.8	40
9	3HWC: The Third HAWC Catalog of Very-high-energy Gamma-Ray Sources. Astrophysical Journal, 2020, 905, 76.	4.5	99
10	Interplanetary Magnetic Flux Rope Observed at Ground Level by HAWC. Astrophysical Journal, 2020, 905, 73.	4.5	2
11	HAWC and Fermi-LAT Detection of Extended Emission from the Unidentified Source 2HWC J2006+341. Astrophysical Journal Letters, 2020, 903, L14.	8.3	5
12	MAGIC andFermi-LAT gamma-ray results on unassociated HAWC sources. Monthly Notices of the Royal Astronomical Society, 2019, 485, 356-366.	4.4	7
13	All-sky Measurement of the Anisotropy of Cosmic Rays at 10 TeV and Mapping of the Local Interstellar Magnetic Field. Astrophysical Journal, 2019, 871, 96.	4.5	32
14	A search for dark matter in the Galactic halo with HAWC. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 049-049.	5.4	36
15	Data acquisition architecture and online processing system for the HAWC gamma-ray observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 888, 138-146.	1.6	16
16	Observation of Anisotropy of TeV Cosmic Rays with Two Years of HAWC. Astrophysical Journal, 2018, 865, 57.	4.5	25
17	Very-high-energy particle acceleration powered by the jets of the microquasar SS 433. Nature, 2018, 562, 82-85.	27.8	75
18	Constraining the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mover accent="true"><mml:mi>p</mml:mi><mml:mo stretchy="false">Â¯</mml:mo></mml:mover><mml:mo stretchy="false">/</mml:mo><mml:mi>p</mml:mi></mml:math> ratio in TeV cosmic rays with observations of the Moon shadow by HAWC. Physical Review D, 2018, 97, .	4.7	9

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19	Search for dark matter gamma-ray emission from the Andromeda Galaxy with the High-Altitude Water Cherenkov Observatory. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 043-043.	5.4	11
20	Search for Very High-energy Gamma Rays from the Northern Fermi Bubble Region with HAWC. Astrophysical Journal, 2017, 842, 85.	4.5	28
21	Daily Monitoring of TeV Gamma-Ray Emission from Mrk 421, Mrk 501, and the Crab Nebula with HAWC. Astrophysical Journal, 2017, 841, 100.	4.5	39
22	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above 8 Ã— 10 ¹⁸ eV. Science, 2017, 357, 1266-1270.	12.6	261
23	The HAWC Real-time Flare Monitor for Rapid Detection of Transient Events. Astrophysical Journal, 2017, 843, 116.	4.5	16
24	All-particle cosmic ray energy spectrum measured by the HAWC experiment from 10 to 500ÂTeV. Physical Review D, 2017, 96, .	4.7	56
25	Extended gamma-ray sources around pulsars constrain the origin of the positron flux at Earth. Science, 2017, 358, 911-914.	12.6	303
26	Search for Very-high-energy Emission from Gamma-Ray Bursts Using the First 18 Months of Data from the HAWC Gamma-Ray Observatory. Astrophysical Journal, 2017, 843, 88.	4.5	12
27	The 2HWC HAWC Observatory Gamma-Ray Catalog. Astrophysical Journal, 2017, 843, 40.	4.5	200
28	Observation of the Crab Nebula with the HAWC Gamma-Ray Observatory. Astrophysical Journal, 2017, 843, 39.	4.5	159
29	SEARCH FOR TeV GAMMA-RAY EMISSION FROM POINT-LIKE SOURCES IN THE INNER GALACTIC PLANE WITH A PARTIAL CONFIGURATION OF THE HAWC OBSERVATORY. Astrophysical Journal, 2016, 817, 3.	4.5	33
30	SEARCH FOR GAMMA-RAYS FROM THE UNUSUALLY BRIGHT GRB 130427A WITH THE HAWC GAMMA-RAY OBSERVATORY. Astrophysical Journal, 2015, 800, 78.	4.5	30
31	Search for patterns by combining cosmic-ray energy and arrival directions at the Pierre Auger Observatory. European Physical Journal C, 2015, 75, 269.	3.9	12
32	Milagro limits and HAWC sensitivity for the rate-density of evaporating Primordial Black Holes. Astroparticle Physics, 2015, 64, 4-12.	4.3	24
33	VAMOS: A pathfinder for the HAWC gamma-ray observatory. Astroparticle Physics, 2015, 62, 125-133.	4.3	11
34	Sensitivity of HAWC to high-mass dark matter annihilations. Physical Review D, 2014, 90, .	4.7	38
35	OBSERVATION OF SMALL-SCALE ANISOTROPY IN THE ARRIVAL DIRECTION DISTRIBUTION OF TeV COSMIC RAYS WITH HAWC. Astrophysical Journal, 2014, 796, 108.	4.5	71
36	Sensitivity of the high altitude water Cherenkov detector to sources of multi-TeV gamma rays. Astroparticle Physics, 2013, 50-52, 26-32.	4.3	156

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37	On the sensitivity of the HAWC observatory to gamma-ray bursts. Astroparticle Physics, 2012, 35, 641-650.	4.3	100
38	Production of pions, kaons and protons in pp collisions at $sqrt{s}= 900~mathrm{GeV}$ with ALICE at the LHC. European Physical Journal C, 2011, 71, 1.	3.9	209
39	First protonâ€“proton collisions at the LHC as observed withÂtheÂALICE detector: measurement of the charged-particle pseudorapidity density at $sqrt{s}=900$ ÂGeV. European Physical Journal C, 2010, 65, 111-125.	3.9	124
40	Charged-particle multiplicity measurement in protonâ€“proton collisions at $sqrt{s}=0.9$ and 2.36ÂTeV with ALICE at LHC. European Physical Journal C, 2010, 68, 89-108.	3.9	199
41	Charged-particle multiplicity measurement in protonâ€“proton collisions at $sqrt{s}=7$ÂTeV with ALICE at LHC. European Physical Journal C, 2010, 68, 345-354.	3.9	212
42	Cosmology, Relativity and Cosmic Rays. , 2009, , .		0
43	Second School on Cosmic Rays and Astrophysics. Journal of Physics: Conference Series, 2008, 116, 011001.	0.4	0
44	Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects. Science, 2007, 318, 938-943.	12.6	647
45	ACORDE a cosmic ray detector for ALICE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 572, 102-103.	1.6	11
46	Space Detector TUS for Extreme Energy Cosmic Ray Study. Nuclear Physics, Section B, Proceedings Supplements, 2007, 166, 68-71.	0.4	2
47	The TUS space fluorescence detector for study of UHECR and other phenomena of variable fluorescence light in the atmosphere. Advances in Space Research, 2006, 37, 1876-1883.	2.6	15
48	A measurement of the diffuse reflectivity of 1056 Tyvek in air and water. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 553, 312-316.	1.6	6
49	PREPARATION OF THE TUS SPACE EXPERIMENT FOR UHECR STUDY. International Journal of Modern Physics A, 2005, 20, 6865-6868.	1.5	4
50	Influence of diffractive interactions on cosmic ray air showers. Physical Review D, 2004, 70, .	4.7	14
51	KLYPVE/TUS space experiments for study of ultrahigh-energy cosmic rays. Physics of Atomic Nuclei, 2004, 67, 2058-2061.	0.4	14
52	Space Program KOSMOTEPETL (project KLYPVE and TUS) for the study of extremely high energy cosmic rays. AIP Conference Proceedings, 2001, , .	0.4	18
53	Electronics for the KLYPVE Detector. AIP Conference Proceedings, 2001, , .	0.4	9
54	Diffuse reflectivity of Tyvek in air and water, and anisotropical effects. Nuclear Physics, Section B, Proceedings Supplements, 2001, 97, 231-234.	0.4	1

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55	Non-SUSY unification in left-right models. Physical Review D, 1999, 59, .	4.7	6
56	TOPOLOGICAL DEFECTS IN [SU(6)]3Ã— Z3. International Journal of Modern Physics A, 1999, 14, 1859-1876.	1.5	1
57	Stability and calibration of a water ÄŒerenkov detector prototype. Nuclear Physics, Section B, Proceedings Supplements, 1999, 75, 389-391.	0.4	0
58	Calibration and monitoring of water Cherenkov detectors with stopping and crossing muons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 420, 39-47.	1.6	7
59	NON-SUSY AND SUSY ONE-STEP UNIFICATION. Modern Physics Letters A, 1998, 13, 2153-2162.	1.2	6
60	One-step non-SUSY unification. Europhysics Letters, 1997, 39, 141-146.	2.0	6
61	Model-independent analysis of the simultaneous mixing of gauge bosons and mixing of fermions. Physical Review D, 1997, 55, 2998-3005.	4.7	4
62	Systematic study of horizontal gauge theories. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1997, 73, 711-720.	1.5	4
63	NEUTRINO SELF-ENERGY AND DISPERSION EQUATION IN DENSE MATTER. International Journal of Modern Physics A, 1996, 11, 5093-5108.	1.5	3
64	Neutrino mass in dense matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 366, 235-240.	4.1	3
65	Is U(1) H a good family symmetry?. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1995, 69, 683-686.	1.5	0
66	Signals of extra gauge bosons and exotic leptons in SU(6)LâŠ—U(1)Y. Physical Review D, 1995, 51, 6474-6483.	4.7	1
67	Generational seesaw mechanism in[SU(6)]3Ã—Z3. Physical Review D, 1994, 49, 4954-4957.	4.7	19
68	Mass scales and stability of the proton in[SU(6)]3Ã—Z3. Physical Review D, 1994, 49, 4958-4961.	4.7	3
69	An [SU(6)]4 flavor model without mirror fermions. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1994, 63, 339-343.	1.5	5
70	Tuning[SU(6)]3Ã—Z3. Physical Review D, 1993, 48, 240-258.	4.7	5
71	Family unification inSU(6) L âŠ—U(1) Y. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1992, 55, 423-434.	1.5	1
72	Unification of forces and flavors for three families. Physical Review D, 1991, 44, 2166-2178.	4.7	21

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73	SU(7) Electroweak unification. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1988, 39, 377-380.	1.5	0
74	Universally coupled extraZ bosons from extended technicolor models. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1988, 40, 125-131.	1.5	0
75	Phenomenology of a second neutral gauge boson in the Drell-Yan process. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1985, 29, 197-201.	1.5	0
76	Characteristic size for the neutrino. Physical Review D, 1985, 31, 1091-1096.	4.7	33
77	Neutrino charge in the linearRÎ¾gauge. Physical Review D, 1984, 29, 1539-1541.	4.7	20
78	Flavor diagonal neutral currents from extended hypercolor. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 132, 407-412.	4.1	1
79	Spin-dependent quark-quark interaction and baryon magnetic moments. Physical Review D, 1982, 25, 223-234.	4.7	16
80	Contribution of a neutrino magnetic coupling to the muon magnetic moment. Physical Review D, 1982, 26, 2517-2518.	4.7	3
81	Polarized bhabha scattering in multiboson electroweak gauge models. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1982, 12, 67-75.	1.5	9
82	Charge asymmetry of electromagnetic origin ine+eâˆ’â†’Ï€+Ï€âˆ’Ï€0and neutral currents. Physical Review D, 1981, 24, 1823-1831.	4.7	0
83	Approaching the chiral limit in QCD. Nuclear Physics B, 1980, 174, 445-473.	2.5	43
84	Hadron masses and current algebra quark masses. Nuclear Physics B, 1980, 164, 25-44.	2.5	28
85	Chiral-symmetry breaking, the Dashen mass formula, and the decayÎ·â†’3Ï€. Physical Review D, 1978, 18, 884-888.	4.7	19
86	Mass of the Up Quark. Physical Review Letters, 1978, 41, 139-141.	7.8	49
87	Weak neutral currents in electron-positron annihilation into three pions with polarized beams. Physical Review D, 1977, 16, 42-49.	4.7	2
88	Weak neutral currents in electron-positron annihilation into three pions. Physical Review D, 1976, 14, 1867-1873.	4.7	2
89	Subtractions in the Adler sum rule and violation of charge symmetry. Physical Review D, 1976, 14, 1455-1458.	4.7	0
90	Asymptotic freedom of Yang-Mills fields in the Coulomb gauge. Physical Review D, 1975, 12, 503-507.	4.7	8

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91	Break-down of scaling in eâˆ’+e+â†' handrons and extended vector dominance. Lettere Al Nuovo Cimento Rivista Internazionale Della SocietÃ Italiana Di Fisica, 1974, 9, 273-276.	0.4	2
92	Field-Theoretic Calculation of the Direct-Emission Amplitude inKÂ±â†'Ï€Â±Ï€0Î³. Physical Review D, 1973, 8, 4203-4205.	4.7	0
93	Where Are the Corrections to the Goldberger - Treiman Relation?. Physical Review D, 1972, 5, 3262-3268.	4.7	44
94	Pion Radius and Isovector Nucleon Radii in the Limit of Small Pion Mass. Physical Review D, 1972, 6, 2912-2918.	4.7	78
95	Gradient Terms in the Scalar-Densityâ€"Charge-Density Commutator. Physical Review D, 1971, 4, 1072-1079.	4.7	1