

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
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95
all docs

95
docs citations

95
times ranked

5836
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects. <i>Science</i> , 2007, 318, 938-943.	12.6	647
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 large-scale anisotropy in the arrival directions of cosmic rays above 8×10^{18} eV. <i>Science</i> , 2017, 357, 1266-1270.	12.6	261
4	Charged-particle multiplicity measurement in proton-proton collisions at $\sqrt{s}=7$ TeV with ALICE at LHC. <i>European Physical Journal C</i> , 2010, 68, 345-354.	3.9	212
5	Production of pions, kaons and protons in pp collisions at $\sqrt{s}=900$ GeV with ALICE at the LHC. <i>European Physical Journal C</i> , 2011, 71, 1.	3.9	209
6	The 2HWC HAWC Observatory Gamma-Ray Catalog. <i>Astrophysical Journal</i> , 2017, 843, 40.	4.5	200
7	Charged-particle multiplicity measurement in proton-proton collisions at $\sqrt{s}=0.9$ and 2.36 TeV with ALICE at LHC. <i>European Physical Journal C</i> , 2010, 68, 89-108.	3.9	199
8	Observation of the Crab Nebula with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2017, 843, 39.	4.5	159
9	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
10	First proton-proton collisions at the LHC as observed with the ALICE detector: measurement of the charged-particle pseudorapidity density at $\sqrt{s}=900$ GeV. <i>European Physical Journal C</i> , 2010, 65, 111-125.	3.9	124
11	On the sensitivity of the HAWC observatory to gamma-ray bursts. <i>Astroparticle Physics</i> , 2012, 35, 641-650.	4.3	100
12	3HWC: The Third HAWC Catalog of Very-high-energy Gamma-Ray Sources. <i>Astrophysical Journal</i> , 2020, 905, 76.	4.5	99
13	Pion Radius and Isovector Nucleon Radii in the Limit of Small Pion Mass. <i>Physical Review D</i> , 1972, 6, 2912-2918.	4.7	78
14	Very-high-energy particle acceleration powered by the jets of the microquasar SS 433. <i>Nature</i> , 2018, 562, 82-85.	27.8	75
15	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
16	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
17	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
18	Mass of the Up Quark. <i>Physical Review Letters</i> , 1978, 41, 139-141.	7.8	49

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19	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
20	Where Are the Corrections to the Goldberger - Treiman Relation?. <i>Physical Review D</i> , 1972, 5, 3262-3268.	4.7	44
21	Approaching the chiral limit in QCD. <i>Nuclear Physics B</i> , 1980, 174, 445-473.	2.5	43
22	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
23	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
24	Sensitivity of HAWC to high-mass dark matter annihilations. <i>Physical Review D</i> , 2014, 90, .	4.7	38
25	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
26	Characteristic size for the neutrino. <i>Physical Review D</i> , 1985, 31, 1091-1096.	4.7	33
27	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
28	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
29	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
30	Hadron masses and current algebra quark masses. <i>Nuclear Physics B</i> , 1980, 164, 25-44.	2.5	28
31	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
32	Observation of Anisotropy of TeV Cosmic Rays with Two Years of HAWC. <i>Astrophysical Journal</i> , 2018, 865, 57.	4.5	25
33	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
34	Unification of forces and flavors for three families. <i>Physical Review D</i> , 1991, 44, 2166-2178.	4.7	21
35	Neutrino charge in the linear SU(4) gauge. <i>Physical Review D</i> , 1984, 29, 1539-1541.	4.7	20
36	Chiral-symmetry breaking, the Dashen mass formula, and the decay $\pi^+ \rightarrow \pi^0 e^+ \nu_e$. <i>Physical Review D</i> , 1978, 18, 884-888.	4.7	19

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37	Generational seesaw mechanism in $[SU(6)]_3\tilde{A}-Z_3$. Physical Review D, 1994, 49, 4954-4957.	4.7	19
38	Space Program KOSMOTEPETL (project KLYPVE and TUS) for the study of extremely high energy cosmic rays. AIP Conference Proceedings, 2001, , .	0.4	18
39	Spin-dependent quark-quark interaction and baryon magnetic moments. Physical Review D, 1982, 25, 223-234.	4.7	16
40	The HAWC Real-time Flare Monitor for Rapid Detection of Transient Events. Astrophysical Journal, 2017, 843, 116.	4.5	16
41	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
42	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
43	Influence of diffractive interactions on cosmic ray air showers. Physical Review D, 2004, 70, .	4.7	14
44	KLYPVE/TUS space experiments for study of ultrahigh-energy cosmic rays. Physics of Atomic Nuclei, 2004, 67, 2058-2061.	0.4	14
45	A Survey of Active Galaxies at TeV Photon Energies with the HAWC Gamma-Ray Observatory. Astrophysical Journal, 2021, 907, 67.	4.5	13
46	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
47	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
48	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
49	VAMOS: A pathfinder for the HAWC gamma-ray observatory. Astroparticle Physics, 2015, 62, 125-133.	4.3	11
50	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
51	Polarized bhabha scattering in multiboson electroweak gauge models. Zeitschrift für Physik C-Particles and Fields, 1982, 12, 67-75.	1.5	9
52	Electronics for the KLYPVE Detector. AIP Conference Proceedings, 2001, , .	0.4	9
53	Constraining the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mover accent="true" \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false" \rangle \tilde{\Lambda} \langle \text{mml:mo} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mo stretchy="false" \rangle} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ ratio in TeV cosmic rays with observations of the Moon shadow by HAWC. Physical Review D, 2018, 97, , .	4.7	9
54	Multimessenger Gamma-Ray and Neutrino Coincidence Alerts Using HAWC and IceCube Subthreshold Data. Astrophysical Journal, 2021, 906, 63.	4.5	9

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55	Asymptotic freedom of Yang-Mills fields in the Coulomb gauge. <i>Physical Review D</i> , 1975, 12, 503-507.	4.7	8
56	Calibration and monitoring of water Cherenkov detectors with stopping and crossing muons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 420, 39-47.	1.6	7
57	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
58	One-step non-SUSY unification. <i>Europhysics Letters</i> , 1997, 39, 141-146.	2.0	6
59	NON-SUSY AND SUSY ONE-STEP UNIFICATION. <i>Modern Physics Letters A</i> , 1998, 13, 2153-2162.	1.2	6
60	Non-SUSY unification in left-right models. <i>Physical Review D</i> , 1999, 59, .	4.7	6
61	A measurement of the diffuse reflectivity of 1056 Tyvek in air and water. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 553, 312-316.	1.6	6
62	HAWC Study of the Ultra-high-energy Spectrum of MGRO J1908+06. <i>Astrophysical Journal</i> , 2022, 928, 116.	4.5	6
63	Tuning $[SU(6)]_{3\tilde{A}-Z3}$. <i>Physical Review D</i> , 1993, 48, 240-258.	4.7	5
64	An $[SU(6)]_4$ flavor model without mirror fermions. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1994, 63, 339-343.	1.5	5
65	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
66	Model-independent analysis of the simultaneous mixing of gauge bosons and mixing of fermions. <i>Physical Review D</i> , 1997, 55, 2998-3005.	4.7	4
67	Systematic study of horizontal gauge theories. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997, 73, 711-720.	1.5	4
68	PREPARATION OF THE TUS SPACE EXPERIMENT FOR UHECR STUDY. <i>International Journal of Modern Physics A</i> , 2005, 20, 6865-6868.	1.5	4
69	Contribution of a neutrino magnetic coupling to the muon magnetic moment. <i>Physical Review D</i> , 1982, 26, 2517-2518.	4.7	3
70	Mass scales and stability of the proton in $[SU(6)]_{3\tilde{A}-Z3}$. <i>Physical Review D</i> , 1994, 49, 4958-4961.	4.7	3
71	NEUTRINO SELF-ENERGY AND DISPERSION EQUATION IN DENSE MATTER. <i>International Journal of Modern Physics A</i> , 1996, 11, 5093-5108.	1.5	3
72	Neutrino mass in dense matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 366, 235-240.	4.1	3

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73	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
74	Break-down of scaling in e^+e^- hadrons and extended vector dominance. Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica, 1974, 9, 273-276.	0.4	2
75	Weak neutral currents in electron-positron annihilation into three pions. Physical Review D, 1976, 14, 1867-1873.	4.7	2
76	Weak neutral currents in electron-positron annihilation into three pions with polarized beams. Physical Review D, 1977, 16, 42-49.	4.7	2
77	Space Detector TUS for Extreme Energy Cosmic Ray Study. Nuclear Physics, Section B, Proceedings Supplements, 2007, 166, 68-71.	0.4	2
78	HAWC as a Ground-Based Space-Weather Observatory. Solar Physics, 2021, 296, 1.	2.5	2
79	Interplanetary Magnetic Flux Rope Observed at Ground Level by HAWC. Astrophysical Journal, 2020, 905, 73.	4.5	2
80	Gradient Terms in the Scalar-Density- \times Charge-Density Commutator. Physical Review D, 1971, 4, 1072-1079.	4.7	1
81	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
82	Family unification in $SU(6) \times U(1)$. Zeitschrift f�r Physik C-Particles and Fields, 1992, 55, 423-434.	1.5	1
83	Signals of extra gauge bosons and exotic leptons in $SU(6) \times U(1)$. Physical Review D, 1995, 51, 6474-6483.	4.7	1
84	TOPOLOGICAL DEFECTS IN $[SU(6)]^3$. International Journal of Modern Physics A, 1999, 14, 1859-1876.	1.5	1
85	Diffuse reflectivity of Tyvek in air and water, and anisotropical effects. Nuclear Physics, Section B, Proceedings Supplements, 2001, 97, 231-234.	0.4	1
86	Field-Theoretic Calculation of the Direct-Emission Amplitude in $K^+ \rightarrow \pi^+ \pi^0$. Physical Review D, 1973, 8, 4203-4205.	4.7	0
87	Subtractions in the Adler sum rule and violation of charge symmetry. Physical Review D, 1976, 14, 1455-1458.	4.7	0
88	Charge asymmetry of electromagnetic origin in $e^+e^- \rightarrow \pi^+\pi^0$ and neutral currents. Physical Review D, 1981, 24, 1823-1831.	4.7	0
89	Phenomenology of a second neutral gauge boson in the Drell-Yan process. Zeitschrift f�r Physik C-Particles and Fields, 1985, 29, 197-201.	1.5	0
90	$SU(7)$ Electroweak unification. Zeitschrift f�r Physik C-Particles and Fields, 1988, 39, 377-380.	1.5	0

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91	Universally coupled extraZ bosons from extended technicolor models. Zeitschrift für Physik C-Particles and Fields, 1988, 40, 125-131.	1.5	0
92	Is U(1) H a good family symmetry?. Zeitschrift für Physik C-Particles and Fields, 1995, 69, 683-686.	1.5	0
93	Stability and calibration of a water Čerenkov detector prototype. Nuclear Physics, Section B, Proceedings Supplements, 1999, 75, 389-391.	0.4	0
94	Cosmology, Relativity and Cosmic Rays. , 2009, , .		0
95	Second School on Cosmic Rays and Astrophysics. Journal of Physics: Conference Series, 2008, 116, 011001.	0.4	0