

Ivone F Albuquerque

List of Publications by Year in descending order

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81
papers

7,238
citations

109321

35
h-index

58581

82
g-index

83
all docs

83
docs citations

83
times ranked

10158
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-messenger Observations of a Binary Neutron Star Merger [*] . Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
2	Introducing the CTA concept. Astroparticle Physics, 2013, 43, 3-18.	4.3	504
3	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above $\sqrt{10}$ EeV. Physical Review D, 2014, 90, .	4.7	266
4	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above 8×10^{18} eV. Science, 2017, 357, 1266-1270.	12.6	261
5	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. II. Composition implications. Physical Review D, 2014, 90, .	4.7	213
6	Measurement of the Proton-Air Cross Section at $\sqrt{s} = 57$ TeV at the Pierre Auger Observatory. Physical Review Letters, 2012, 109, 062002.	7.8	212
7	Constraints on Sub-GeV Dark-Matter "Electron Scattering from the DarkSide-50 Experiment. Physical Review Letters, 2018, 121, 111303.	7.8	179
8	An Indication of Anisotropy in Arrival Directions of Ultra-high-energy Cosmic Rays through Comparison to the Flux Pattern of Extragalactic Gamma-Ray Sources [*] . Astrophysical Journal Letters, 2018, 853, L29.	8.3	165
9	Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. Physical Review Letters, 2016, 117, 192001.	7.8	154
10	Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events. Physical Review D, 2015, 91, .	4.7	152
11	SEARCHES FOR ANISOTROPIES IN THE ARRIVAL DIRECTIONS OF THE HIGHEST ENERGY COSMIC RAYS DETECTED BY THE PIERRE AUGER OBSERVATORY. Astrophysical Journal, 2015, 804, 15.	4.5	146
12	Search for the Decay $K_L \rightarrow \pi^0 \nu \bar{\nu}$. Physical Review Letters, 2000, 84, 5279-5282.	7.8	125
13	Antennas for the detection of radio emission pulses from cosmic-ray induced air showers at the Pierre Auger Observatory. Journal of Instrumentation, 2012, 7, P10011-P10011.	1.2	95
14	Probing the radio emission from air showers with polarization measurements. Physical Review D, 2014, 89, .	4.7	85
15	Large-scale Cosmic-Ray Anisotropies above 4 EeV Measured by the Pierre Auger Observatory. Astrophysical Journal, 2018, 868, 4.	4.5	77
16	Search for first harmonic modulation in the right ascension distribution of cosmic rays detected at the Pierre Auger Observatory. Astroparticle Physics, 2011, 34, 627-639.	4.3	73
17	SEARCHES FOR LARGE-SCALE ANISOTROPY IN THE ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE ENERGY OF 10^{19} eV AT THE PIERRE AUGER OBSERVATORY AND THE TELESCOPE ARRAY. Astrophysical Journal, 2014, 794, 172.	4.5	72
18	Observation of CP Violation in $K_L \rightarrow \pi^0 e^+ e^-$ Decays. Physical Review Letters, 2000, 84, 408-411.	7.8	70

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19	Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth. <i>Physical Review D</i> , 2014, 90, .	4.7	69
20	CONSTRAINTS ON THE ORIGIN OF COSMIC RAYS ABOVE 10^{18} eV FROM LARGE-SCALE ANISOTROPY SEARCHES IN DATA OF THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal Letters</i> , 2013, 762, L13.	8.3	67
21	Description of atmospheric conditions at the Pierre Auger Observatory using the Global Data Assimilation System (GDAS). <i>Astroparticle Physics</i> , 2012, 35, 591-607.	4.3	66
22	SEARCH FOR POINT-LIKE SOURCES OF ULTRA-HIGH ENERGY NEUTRINOS AT THE PIERRE AUGER OBSERVATORY AND IMPROVED LIMIT ON THE DIFFUSE FLUX OF TAU NEUTRINOS. <i>Astrophysical Journal Letters</i> , 2012, 755, L4.	8.3	55
23	Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 635, 92-102.	1.6	52
24	Neutrino Telescopes as a Direct Probe of Supersymmetry Breaking. <i>Physical Review Letters</i> , 2004, 92, 221802.	7.8	51
25	Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory. <i>Physical Review D</i> , 2011, 84, .	4.7	51
26	Reconstruction of inclined air showers detected with the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 019-019.	5.4	49
27	LARGE SCALE DISTRIBUTION OF ULTRA HIGH ENERGY COSMIC RAYS DETECTED AT THE PIERRE AUGER OBSERVATORY WITH ZENITH ANGLES UP TO 80° . <i>Astrophysical Journal</i> , 2015, 802, 111.	4.5	49
28	Direct Detection Constraints on Superheavy Dark Matter. <i>Physical Review Letters</i> , 2003, 90, 221301.	7.8	47
29	LARGE-SCALE DISTRIBUTION OF ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE 10^{18} eV AT THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal, Supplement Series</i> , 2012, 203, 34.	7.7	44
30	First observation of magnetic moment precession of channeled particles in bent crystals. <i>Physical Review Letters</i> , 1992, 69, 3286-3289.	7.8	42
31	High energy neutrinos from superheavy dark matter annihilation. <i>Physical Review D</i> , 2001, 64, .	4.7	39
32	Ultrahigh Energy Neutrinos at the Pierre Auger Observatory. <i>Advances in High Energy Physics</i> , 2013, 2013, 1-18.	1.1	39
33	Prototype muon detectors for the AMIGA component of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2016, 11, P02012-P02012.	1.2	38
34	Polarization of Σ^+ and Σ^0 hyperons produced by 800-GeV/c protons. <i>Physical Review Letters</i> , 1993, 71, 2172-2175.	7.8	37
35	Measurement of the Decay $K_L \rightarrow \pi^0 \pi^0$. <i>Physical Review Letters</i> , 1999, 83, 917-921.	7.8	35
36	Measurement of the cosmic ray energy spectrum using hybrid events of the Pierre Auger Observatory. <i>European Physical Journal Plus</i> , 2012, 127, 1.	2.6	34

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37	The veto system of the DarkSide-50 experiment. Journal of Instrumentation, 2016, 11, P03016-P03016.	1.2	33
38	Measurement of the asymmetry parameter in the hyperon radiative decay $\Lambda \rightarrow \Lambda^0 \pi^0$. Physical Review Letters, 1992, 68, 3004-3007.	7.8	32
39	Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory. Astroparticle Physics, 2012, 35, 354-361.	4.3	32
40	Simulation of argon response and light detection in the DarkSide-50 dual phase TPC. Journal of Instrumentation, 2017, 12, P10015-P10015.	1.2	31
41	Direct detection of supersymmetric particles in neutrino telescopes. Physical Review D, 2007, 75, .	4.7	29
42	A SEARCH FOR POINT SOURCES OF EeV PHOTONS. Astrophysical Journal, 2014, 789, 160.	4.5	29
43	Search for Light Supersymmetric Baryons. Physical Review Letters, 1997, 78, 3252-3256.	7.8	28
44	A SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal, 2012, 760, 148.	4.5	27
45	Interpretation of the depths of maximum of extensive air showers measured by the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 026-026.	5.4	27
46	Search for the Decay $K_L \rightarrow \pi^0 e^+ e^-$. Physical Review Letters, 2001, 86, 397-401.	7.8	25
47	The rapid atmospheric monitoring system of the Pierre Auger Observatory. Journal of Instrumentation, 2012, 7, P09001-P09001.	1.2	24
48	Constraints on self interacting dark matter from IceCube results. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 047-047.	5.4	23
49	Closing the window on strongly interacting dark matter with IceCube. Physical Review D, 2010, 81, .	4.7	22
50	Measurement of the Branching Fraction of the Decay $K_L \rightarrow \pi^0 \pi^0 e^+ e^-$. Physical Review Letters, 1998, 80, 4123-4126.	7.8	21
51	A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 837, L25.	8.3	21
52	Calibration of the logarithmic-periodic dipole antenna (LPDA) radio stations at the Pierre Auger Observatory using an octocopter. Journal of Instrumentation, 2017, 12, T10005-T10005.	1.2	21
53	Nanosecond-level time synchronization of autonomous radio detector stations for extensive air showers. Journal of Instrumentation, 2016, 11, P01018-P01018.	1.2	20
54	Observation of the Decay $\Lambda \rightarrow \Sigma^0 \pi^0$. Physical Review Letters, 1999, 82, 3751-3754.	7.8	19

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55	The Lateral Trigger Probability function for the Ultra-High Energy Cosmic Ray showers detected by the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2011, 35, 266-276.	4.3	16
56	Muon counting using silicon photomultipliers in the AMIGA detector of the Pierre Auger observatory. <i>Journal of Instrumentation</i> , 2017, 12, P03002-P03002.	1.2	16
57	Cryogenic Characterization of FBK RGB-HD SiPMs. <i>Journal of Instrumentation</i> , 2017, 12, P09030-P09030.	1.2	16
58	Astrophysical Neutrino Event Rates and Sensitivity for Neutrino Telescopes. <i>Astrophysical Journal, Supplement Series</i> , 2002, 141, 195-209.	7.7	14
59	A TARGETED SEARCH FOR POINT SOURCES OF EeV NEUTRONS. <i>Astrophysical Journal Letters</i> , 2014, 789, L34.	8.3	14
60	Measurement of the Branching Ratio of $e^+e^- \rightarrow \mu^+\mu^- \gamma$ Using KL [±] Decays in Flight. <i>Physical Review Letters</i> , 1999, 83, 922-925.	7.8	13
61	Measurement of the branching ratio for the $\Lambda^0 \rightarrow p \pi^- \gamma$ radiative decay. <i>Physical Review Letters</i> , 1994, 72, 808-811.	7.8	12
62	Measurement of the branching ratio and asymmetry parameter for the $\Lambda^0 \rightarrow p \pi^- \gamma$ radiative decay. <i>Physical Review D</i> , 1995, 51, 4638-4660.	4.7	11
63	A faraway quasar in the direction of the highest energy Auger event. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 016-016.	5.4	10
64	The electronics, trigger and data acquisition system for the liquid argon time projection chamber of the DarkSide-50 search for dark matter. <i>Journal of Instrumentation</i> , 2017, 12, P12011-P12011.	1.2	10
65	CALIS – A CALibration Insertion System for the DarkSide-50 dark matter search experiment. <i>Journal of Instrumentation</i> , 2017, 12, T12004-T12004.	1.2	10
66	Publisher's Note: Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory [<i>Phys. Rev. D</i> 84, 122005 (2011)]. <i>Physical Review D</i> , 2012, 85, .	4.7	8
67	Impact of atmospheric effects on the energy reconstruction of air showers observed by the surface detectors of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2017, 12, P02006-P02006.	1.2	8
68	Measurement of the magnetic moments of the Λ^0 and $\Lambda^0 \rightarrow p \pi^-$ hyperons. <i>Physical Review Letters</i> , 1993, 71, 3417-3420.	7.8	7
69	Neutrino telescopes' sensitivity to dark matter. <i>Physical Review D</i> , 2002, 66, .	4.7	7
70	Direct detection of Kaluza-Klein particles in neutrino telescopes. <i>Physical Review D</i> , 2008, 78, .	4.7	7
71	Supersymmetric and Kaluza-Klein particles multiple scattering in the Earth. <i>Physical Review D</i> , 2009, 80, .	4.7	7
72	Detection of exotic massive hadrons in ultrahigh energy cosmic ray telescopes. <i>Physical Review D</i> , 2009, 80, .	4.7	7

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73	The electronics and data acquisition system for the DarkSide-50 veto detectors. Journal of Instrumentation, 2016, 11, P12007-P12007.	1.2	7
74	Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. Astroparticle Physics, 2017, 95, 44-56.	4.3	7
75	GZK cutoff distortion due to the energy error distribution shape. Astroparticle Physics, 2006, 25, 375-379.	4.3	6
76	Constraints on enhanced dark matter annihilation from IceCube results. Physical Review D, 2012, 85, .	4.7	6
77	A search for anisotropy in the arrival directions of ultra high energy cosmic rays recorded at the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 040-040.	5.4	6
78	Origin of atmospheric aerosols at the Pierre Auger Observatory using studies of air mass trajectories in South America. Atmospheric Research, 2014, 149, 120-135.	4.1	6
79	Effect of low electric fields on alpha scintillation light yield in liquid argon. Journal of Instrumentation, 2017, 12, P01021-P01021.	1.2	5
80	Effects of the energy error distribution of fluorescence telescopes on the UHECR energy spectrum. Astroparticle Physics, 2007, 28, 89-97.	4.3	3
81	WG III Report on TeV Particle Astrophysics. Journal of Physics: Conference Series, 2007, 60, 90-94.	0.4	0