

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

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10158
citing authors

#	ARTICLE	IF	CITATIONS
1	An Indication of Anisotropy in Arrival Directions of Ultra-high-energy Cosmic Rays through Comparison to the Flux Pattern of Extragalactic Gamma-Ray Sources [*] . <i>Astrophysical Journal Letters</i> , 2018, 853, L29.	8.3	165
2	Large-scale Cosmic-Ray Anisotropies above 4 EeV Measured by the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2018, 868, 4.	4.5	77
3	Constraints on Sub-GeV Dark-Matter [†] Electron Scattering from the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018, 121, 111303.	7.8	179
4	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
5	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
6	Effect of low electric fields on alpha scintillation light yield in liquid argon. <i>Journal of Instrumentation</i> , 2017, 12, P01021-P01021.	1.2	5
7	A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017, 837, L25.	8.3	21
8	Simulation of argon response and light detection in the DarkSide-50 dual phase TPC. <i>Journal of Instrumentation</i> , 2017, 12, P10015-P10015.	1.2	31
9	Multi-messenger Observations of a Binary Neutron Star Merger [*] . <i>Astrophysical Journal Letters</i> , 2017, 848, L12.	8.3	2,805
10	Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2017, 95, 44-56.	4.3	7
11	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
12	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
13	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
14	Calibration of the logarithmic-periodic dipole antenna (LPDA) radio stations at the Pierre Auger Observatory using an octocopter. <i>Journal of Instrumentation</i> , 2017, 12, T10005-T10005.	1.2	21
15	Cryogenic Characterization of FBK RGB-HD SiPMs. <i>Journal of Instrumentation</i> , 2017, 12, P09030-P09030.	1.2	16
16	The electronics and data acquisition system for the DarkSide-50 veto detectors. <i>Journal of Instrumentation</i> , 2016, 11, P12007-P12007.	1.2	7
17	The veto system of the DarkSide-50 experiment. <i>Journal of Instrumentation</i> , 2016, 11, P03016-P03016.	1.2	33
18	Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2016, 117, 192001.	7.8	154

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19	Nanosecond-level time synchronization of autonomous radio detector stations for extensive air showers. <i>Journal of Instrumentation</i> , 2016, 11, P01018-P01018.	1.2	20
20	Prototype muon detectors for the AMIGA component of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2016, 11, P02012-P02012.	1.2	38
21	SEARCHES FOR ANISOTROPIES IN THE ARRIVAL DIRECTIONS OF THE HIGHEST ENERGY COSMIC RAYS DETECTED BY THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal</i> , 2015, 804, 15.	4.5	146
22	Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events. <i>Physical Review D</i> , 2015, 91, .	4.7	152
23	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
24	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above 10^{19} eV. <i>Physical Review D</i> , 2014, 90, .	4.7	266
25	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. II. Composition implications. <i>Physical Review D</i> , 2014, 90, .	4.7	213
26	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. <i>Astrophysical Journal</i> , 2014, 794, 172.	4.5	72
27	A SEARCH FOR POINT SOURCES OF EeV PHOTONS. <i>Astrophysical Journal</i> , 2014, 789, 160.	4.5	29
28	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
29	Constraints on self interacting dark matter from IceCube results. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 047-047.	5.4	23
30	Probing the radio emission from air showers with polarization measurements. <i>Physical Review D</i> , 2014, 89, .	4.7	85
31	Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth. <i>Physical Review D</i> , 2014, 90, .	4.7	69
32	A TARGETED SEARCH FOR POINT SOURCES OF EeV NEUTRONS. <i>Astrophysical Journal Letters</i> , 2014, 789, L34.	8.3	14
33	Origin of atmospheric aerosols at the Pierre Auger Observatory using studies of air mass trajectories in South America. <i>Atmospheric Research</i> , 2014, 149, 120-135.	4.1	6
34	Introducing the CTA concept. <i>Astroparticle Physics</i> , 2013, 43, 3-18.	4.3	504
35	Ultrahigh Energy Neutrinos at the Pierre Auger Observatory. <i>Advances in High Energy Physics</i> , 2013, 2013, 1-18.	1.1	39
36	Interpretation of the depths of maximum of extensive air showers measured by the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 026-026.	5.4	27

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37	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
38	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
39	Antennas for the detection of radio emission pulses from cosmic-ray induced air showers at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2012, 7, P10011-P10011.	1.2	95
40	Measurement of the Proton-Air Cross Section at $\sqrt{s} = 57$ TeV at the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2012, 109, 062002.	7.8	212
41	Publisher's Note: Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory [Phys. Rev. D84, 122005 (2011)]. <i>Physical Review D</i> , 2012, 85, .	4.7	8
42	A SEARCH FOR POINT SOURCES OF EeV NEUTRONS. <i>Astrophysical Journal</i> , 2012, 760, 148.	4.5	27
43	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
44	The rapid atmospheric monitoring system of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2012, 7, P09001-P09001.	1.2	24
45	Constraints on enhanced dark matter annihilation from IceCube results. <i>Physical Review D</i> , 2012, 85, .	4.7	6
46	A search for anisotropy in the arrival directions of ultra high energy cosmic rays recorded at the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 040-040.	5.4	6
47	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
48	Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2012, 35, 354-361.	4.3	32
49	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
50	Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory. <i>Physical Review D</i> , 2011, 84, .	4.7	51
51	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
52	Search for first harmonic modulation in the right ascension distribution of cosmic rays detected at the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2011, 34, 627-639.	4.3	73
53	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
54	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

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55	Closing the window on strongly interacting dark matter with IceCube. <i>Physical Review D</i> , 2010, 81, .	4.7	22
56	Supersymmetric and Kaluza-Klein particles multiple scattering in the Earth. <i>Physical Review D</i> , 2009, 80, .	4.7	7
57	Detection of exotic massive hadrons in ultrahigh energy cosmic ray telescopes. <i>Physical Review D</i> , 2009, 80, .	4.7	7
58	Direct detection of Kaluza-Klein particles in neutrino telescopes. <i>Physical Review D</i> , 2008, 78, .	4.7	7
59	WG III Report on TeV Particle Astrophysics. <i>Journal of Physics: Conference Series</i> , 2007, 60, 90-94.	0.4	0
60	Direct detection of supersymmetric particles in neutrino telescopes. <i>Physical Review D</i> , 2007, 75, .	4.7	29
61	Effects of the energy error distribution of fluorescence telescopes on the UHECR energy spectrum. <i>Astroparticle Physics</i> , 2007, 28, 89-97.	4.3	3
62	GZK cutoff distortion due to the energy error distribution shape. <i>Astroparticle Physics</i> , 2006, 25, 375-379.	4.3	6
63	Neutrino Telescopes as a Direct Probe of Supersymmetry Breaking. <i>Physical Review Letters</i> , 2004, 92, 221802.	7.8	51
64	Direct Detection Constraints on Superheavy Dark Matter. <i>Physical Review Letters</i> , 2003, 90, 221301.	7.8	47
65	Neutrino telescopes' sensitivity to dark matter. <i>Physical Review D</i> , 2002, 66, .	4.7	7
66	Astrophysical Neutrino Event Rates and Sensitivity for Neutrino Telescopes. <i>Astrophysical Journal, Supplement Series</i> , 2002, 141, 195-209.	7.7	14
67	Search for the Decay $K_L \rightarrow \pi^0 e^+ e^-$. <i>Physical Review Letters</i> , 2001, 86, 397-401.	7.8	25
68	High energy neutrinos from superheavy dark matter annihilation. <i>Physical Review D</i> , 2001, 64, .	4.7	39
69	Search for the Decay $K_L \rightarrow \pi^0 \mu^+ \mu^-$. <i>Physical Review Letters</i> , 2000, 84, 5279-5282.	7.8	125
70	Observation of CP Violation in $K_L \rightarrow \pi^+ \pi^- e^+ e^-$ Decays. <i>Physical Review Letters</i> , 2000, 84, 408-411.	7.8	70
71	Observation of the Decay $K_S \rightarrow \pi^+ \pi^- e^+ e^-$. <i>Physical Review Letters</i> , 1999, 82, 3751-3754.	7.8	19
72	Measurement of the Branching Ratio of $K_S \rightarrow \pi^+ \pi^- e^+ e^-$ Using $K_L \rightarrow \pi^0$ Decays in Flight. <i>Physical Review Letters</i> , 1999, 83, 922-925.	7.8	13

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73	Measurement of the Decay $KL \rightarrow \pi^0 \pi^3$. Physical Review Letters, 1999, 83, 917-921.	7.8	35
74	Measurement of the Branching Fraction of the Decay $KL \rightarrow \pi^+ \pi^- e^+ e^-$. Physical Review Letters, 1998, 80, 4123-4126.	7.8	21
75	Search for Light Supersymmetric Baryons. Physical Review Letters, 1997, 78, 3252-3256.	7.8	28
76	Measurement of the branching ratio and asymmetry parameter for the $\Lambda \rightarrow \pi^0 p^3$ radiative decay. Physical Review D, 1995, 51, 4638-4660.	4.7	11
77	Measurement of the branching ratio for the $\Lambda \rightarrow \pi^+ \pi^- p^3$ radiative decay. Physical Review Letters, 1994, 72, 808-811.	7.8	12
78	Measurement of the magnetic moments of the Λ and Σ^0 hyperons. Physical Review Letters, 1993, 71, 3417-3420.	7.8	7
79	Polarization of Λ and Σ^0 hyperons produced by 800-GeV/c protons. Physical Review Letters, 1993, 71, 2172-2175.	7.8	37
80	First observation of magnetic moment precession of channeled particles in bent crystals. Physical Review Letters, 1992, 69, 3286-3289.	7.8	42
81	Measurement of the asymmetry parameter in the hyperon radiative decay $\Lambda \rightarrow \pi^+ p^3$. Physical Review Letters, 1992, 68, 3004-3007.	7.8	32