Jaime Alvarez-Muniz

List of Publications by Year
in descending order

166 papers	13,690 citations	31976 53 h-index	20358 116 g-index
172 all docs	172 docs citations	172 times ranked	10539 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	Properties and performance of the prototype instrument for the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 523, 50-95.	1.6	647
3	Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects. Science, 2007, 318, 938-943.	12.6	647
4	Observation of the Suppression of the Flux of Cosmic Rays above<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>4</mml:mn><mml:mo>Ã—</mml:mo><mml:msup><mml:mn>10</mml:mn><mml:mn>19</mml:mn></mml: Physical Review Letters, 2008, 101, 061101.	7.8	500
5	The Pierre Auger Cosmic Ray Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 798, 172-213.	1.6	442
6	Measurement of the Depth of Maximum of Extensive Air Showers above<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mn>10</mml:mn><mml:mn>18</mml:mn></mml:msup><mml:mtext>â€‰</mml:mtext><mml:mt Physical Review Letters, 2010, 104, 091101.	7.8	429
7	Measurement of the energy spectrum of cosmic rays above 1018 eV using the Pierre Auger Observatory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 239-246.	4.1	357
8	Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. Astroparticle Physics, 2008, 29, 188-204.	4.3	305
9	The fluorescence detector of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 227-251.	1.6	275
10	Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter. Astroparticle Physics, 2010, 34, 314-326.	4.3	270
11	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:msup><mml:mrow><mml:mn>0</mml:mn></mml:mrow><mml:mrow><m Physical Review D, 2014, 90, .	4.7	266
12	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
13	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. II. Composition implications. Physical Review D, 2014, 90, .	4.7	213
14	Measurement of the Proton-Air Cross Section at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msqrt><mml:mi>s</mml:mi></mml:msqrt><mml:mo mathvariant="bold">=</mml:mo><mml:mn>57</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi>T the Pierre Auger Observatory. Physical Review Letters, 2012, 109, 062002.	7.8	212
15	Neutrinos from individual gamma-ray bursts in the BATSE catalog. Astroparticle Physics, 2004, 20, 429-455.	4.3	210
16	Combined fit of spectrum and composition data as measured by the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 038-038.	5.4	191
17	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
18	Upper limit on the cosmic-ray photon flux above 1019eV using the surface detector of the Pierre Auger Observatory. Astroparticle Physics, 2008, 29, 243-256.	4.3	161

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19	Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. Physical Review Letters, 2016, 117, 192001.	7.8	154
20	Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events. Physical Review D, 2015, 91, .	4.7	152
21	Trigger and aperture of the surface detector array of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 29-39.	1.6	151
22	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
23	Upper Limit on the Diffuse Flux of Ultrahigh Energy Tau Neutrinos from the Pierre Auger Observatory. Physical Review Letters, 2008, 100, 211101.	7.8	141
24	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 850, L35.	8.3	135
25	The Giant Radio Array for Neutrino Detection (GRAND): Science and design. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	130
26	Monte Carlo simulations of radio pulses in atmospheric showers using ZHAireS. Astroparticle Physics, 2012, 35, 325-341.	4.3	127
27	Improved limit to the diffuse flux of ultrahigh energy neutrinos from the Pierre Auger Observatory. Physical Review D, 2015, 91, .	4.7	125
28	Protonâ€“nucleus collisions at the LHC: scientific opportunities and requirements. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015010.	3.6	120
29	Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory. Astroparticle Physics, 2009, 31, 399-406.	4.3	117
30	Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger Observatory. Physical Review D, 2009, 79, .	4.7	99
31	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
32	Measurement of the Radiation Energy in the Radio Signal of Extensive Air Showers as a Universal Estimator of Cosmic-Ray Energy. Physical Review Letters, 2016, 116, 241101.	7.8	91
33	Possible High-Energy Neutrinos from the Cosmic Accelerator RX J1713.7â^’3946. Astrophysical Journal, 2002, 576, L33-L36.	4.5	90
34	An upper limit to the photon fraction in cosmic rays above 1019eV from the Pierre Auger Observatory. Astroparticle Physics, 2007, 27, 155-168.	4.3	90
35	Detecting microscopic black holes with neutrino telescopes. Physical Review D, 2002, 65, .	4.7	89
36	The LPM effect for EeV hadronic showers in ice: implications for radio detection of neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 396-406.	4.1	85

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37	Probing the radio emission from air showers with polarization measurements. Physical Review D, 2014, 89, .	4.7	85
38	A study of the effect of molecular and aerosol conditions in the atmosphere on air fluorescence measurements at the Pierre Auger Observatory. Astroparticle Physics, 2010, 33, 108-129.	4.3	84
39	Evidence for a mixed mass composition at the â€˜ankleâ€™ in the cosmic-ray spectrum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 288-295.	4.1	84
40	Inferences on mass composition and tests of hadronic interactions from 0.3 to 100ÂEeV using the water-Cherenkov detectors of the Pierre Auger Observatory. Physical Review D, 2017, 96, .	4.7	82
41	Energy estimation of cosmic rays with the Engineering Radio Array of the Pierre Auger Observatory. Physical Review D, 2016, 93, .	4.7	80
42	Large-scale Cosmic-Ray Anisotropies above 4 EeV Measured by the Pierre Auger Observatory. Astrophysical Journal, 2018, 868, 4.	4.5	77
43	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
44	SEARCHES FOR LARGE-SCALE ANISOTROPY IN THE ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE ENERGY OF 10¹⁹eV AT THE PIERRE AUGER OBSERVATORY AND THE TELESCOPE ARRAY. Astrophysical Journal, 2014, 794, 172.	4.5	72
45	Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth. Physical Review D, 2014, 90, .	4.7	69
46	CONSTRAINTS ON THE ORIGIN OF COSMIC RAYS ABOVE 10 ¹⁸ eV FROM LARGE-SCALE ANISOTROPY SEARCHES IN DATA OF THE PIERRE AUGER OBSERVATORY. Astrophysical Journal Letters, 2013, 762, L13.	8.3	67
47	Hybrid simulations of extensive air showers. Physical Review D, 2002, 66, .	4.7	66
48	Description of atmospheric conditions at the Pierre Auger Observatory using the Global Data Assimilation System (GDAS). Astroparticle Physics, 2012, 35, 591-607.	4.3	66
49	Calculation methods for radio pulses from high energy showers. Physical Review D, 2000, 62, .	4.7	61
50	High energy neutrinos from radio-quiet active galactic nuclei. Physical Review D, 2004, 70, .	4.7	57
51	LUNASKA experiments using the Australia Telescope Compact Array to search for ultrahigh energy neutrinos and develop technology for the lunar Cherenkov technique. Physical Review D, 2010, 81, .	4.7	56
52	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. Astrophysical Journal Letters, 2012, 755, L4.	8.3	55
53	Energy and flux measurements of ultra-high energy cosmic rays observed during the first ANITA flight. Astroparticle Physics, 2016, 77, 32-43.	4.3	55
54	The exposure of the hybrid detector of the Pierre Auger Observatory. Astroparticle Physics, 2011, 34, 368-381.	4.3	54

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55	Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 635, 92-102.	1.6	52
56	Comprehensive approach to tau-lepton production by high-energy tau neutrinos propagating through the Earth. Physical Review D, 2018, 97, .	4.7	52
57	Anisotropy studies around the galactic centre at EeV energies with the Auger Observatory. Astroparticle Physics, 2007, 27, 244-253.	4.3	51
58	Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory. Physical Review D, 2011, 84, .	4.7	51
59	Reconstruction of inclined air showers detected with the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 019-019.	5.4	49
60	LARGE SCALE DISTRIBUTION OF ULTRA HIGH ENERGY COSMIC RAYS DETECTED AT THE PIERRE AUGER OBSERVATORY WITH ZENITH ANGLES UP TO 80Â°. Astrophysical Journal, 2015, 802, 111.	4.5	49
61	Search for photons with energies above 10¹⁸eV using the hybrid detector of the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 009-009.	5.4	49
62	Ultrahighâ€“Energy Cosmicâ€Ray Propagation in the Galaxy: Clustering versus Isotropy. Astrophysical Journal, 2002, 572, 185-201.	4.5	49
63	High energy neutrinos from gamma ray bursts: Event rates in neutrino telescopes. Physical Review D, 2000, 62, .	4.7	46
64	ÄŒerenkov radio pulses from electromagnetic showers in the time domain. Physical Review D, 2010, 81, .	4.7	46
65	Is Tsallis Thermodynamics Nonextensive?. Physical Review Letters, 2001, 88, 020601.	7.8	44
66	LARGE-SCALE DISTRIBUTION OF ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE 10¹⁸ eV AT THE PIERRE AUGER OBSERVATORY. Astrophysical Journal, Supplement Series, 2012, 203, 34.	7.7	44
67	Atmospheric effects on extensive air showers observed with the surface detector of the Pierre Auger observatory. Astroparticle Physics, 2009, 32, 89-99.	4.3	43
68	Coherent radio pulses from showers in different media: A unified parametrization. Physical Review D, 2006, 74, .	4.7	41
69	Comprehensive analysis of anomalous ANITA events disfavors a diffuse tau-neutrino flux origin. Physical Review D, 2019, 99, .	4.7	40
70	Ultrahigh Energy Neutrinos at the Pierre Auger Observatory. Advances in High Energy Physics, 2013, 2013, 1-18.	1.1	39
71	Ultrahigh-energy neutrino follow-up of gravitational wave events GW150914 and GW151226 with the Pierre Auger Observatory. Physical Review D, 2016, 94, .	4.7	38
72	Prototype muon detectors for the AMIGA component of the Pierre Auger Observatory. Journal of Instrumentation, 2016, 11, P02012-P02012.	1.2	38

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73	Measurement of the cosmic ray energy spectrum using hybrid events of the Pierre Auger Observatory. European Physical Journal Plus, 2012, 127, 1.	2.6	34
74	Bounds on the density of sources of ultra-high energy cosmic rays from the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 009-009.	5.4	34
75	Phenomenology of High-Energy Neutrinos in Low-Scale Quantum-Gravity Models. Physical Review Letters, 2001, 88, 021301.	7.8	32
76	Practical and accurate calculations of Askaryan radiation. Physical Review D, 2011, 84, .	4.7	32
77	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
78	Search for correlations between the arrival directions of IceCube neutrino events and ultrahigh-energy cosmic rays detected by the Pierre Auger Observatory and the Telescope Array. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 037-037.	5.4	31
79	Observation of inclined EeV air showers with the radio detector of the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 026-026.	5.4	30
80	LUNASKA experiment observational limits on UHE neutrinos from Centaurus A and the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2011, 410, 885-889.	4.4	29
81	A SEARCH FOR POINT SOURCES OF EeV PHOTONS. Astrophysical Journal, 2014, 789, 160.	4.5	29
82	Coherent radiation from extensive air showers in the ultrahigh frequency band. Physical Review D, 2012, 86, .	4.7	28
83	Coherent Cherenkov radio pulses from hadronic showers up to EeV energies. Astroparticle Physics, 2012, 35, 287-299.	4.3	28
84	A SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal, 2012, 760, 148.	4.5	27
85	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
86	1020â€‚eVcosmic-ray and particle physics with kilometer-scale neutrino telescopes. Physical Review D, 2001, 63, .	4.7	25
87	The effect of the geomagnetic field on cosmic ray energy estimates and large scale anisotropy searches on data from the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 022-022.	5.4	24
88	The rapid atmospheric monitoring system of the Pierre Auger Observatory. Journal of Instrumentation, 2012, 7, P09001-P09001.	1.2	24
89	Results of a self-triggered prototype system for radio-detection of extensive air showers at the Pierre Auger Observatory. Journal of Instrumentation, 2012, 7, P11023-P11023.	1.2	24
90	Techniques for measuring aerosol attenuation using the Central Laser Facility at the Pierre Auger Observatory. Journal of Instrumentation, 2013, 8, P04009-P04009.	1.2	24

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91	Radio pulses from ultra-high energy atmospheric showers as the superposition of Askaryan and geomagnetic mechanisms. Astroparticle Physics, 2014, 59, 29-38.	4.3	23
92	Prospects for high-elevation radio detection of 0>10 PeV tau neutrinos. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 065-065.	5.4	22
93	Azimuthal asymmetry in the risetime of the surface detector signals of the Pierre Auger Observatory. Physical Review D, 2016, 93, .	4.7	21
94	A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 837, L25.	8.3	21
95	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
96	Thinned simulations of extremely energetic showers in dense media for radio applications. Astroparticle Physics, 2009, 32, 100-111.	4.3	20
97	Measurement of the cosmic ray spectrum above 4 Ã— 10¹⁸eV using inclined events detected with the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 049-049.	5.4	20
98	Nanosecond-level time synchronization of autonomous radio detector stations for extensive air showers. Journal of Instrumentation, 2016, 11, P01018-P01018.	1.2	20
99	Atmospheric shower fluctuations and the constant intensity cut method. Physical Review D, 2002, 66, .	4.7	18
100	Comparative study of electromagnetic shower track lengths in water and implications for ÄŒerenkov radio emission. Physical Review D, 2003, 68, .	4.7	17
101	The Pierre Auger Observatory scaler mode for the study of solar activity modulation of galactic cosmic rays. Journal of Instrumentation, 2011, 6, P01003-P01003.	1.2	16
102	The Lateral Trigger Probability function for the Ultra-High Energy Cosmic Ray showers detected by the Pierre Auger Observatory. Astroparticle Physics, 2011, 35, 266-276.	4.3	16
103	Muon counting using silicon photomultipliers in the AMIGA detector of the Pierre Auger observatory. Journal of Instrumentation, 2017, 12, P03002-P03002.	1.2	16
104	Influence of shower fluctuations and primary composition on studies of the shower longitudinal development. Physical Review D, 2004, 69, .	4.7	15
105	Search for microwave emission from ultrahigh energy cosmic rays. Physical Review D, 2012, 86, .	4.7	15
106	Calculations of electric fields for radio detection of ultrahigh energy particles. Physical Review D, 2013, 87, .	4.7	15
107	Search for ultrarelativistic magnetic monopoles with the Pierre Auger observatory. Physical Review D, 2016, 94, .	4.7	15
108	Can transition radiation explain the ANITA event 3985267?. Physical Review D, 2017, 95, .	4.7	15

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109	A TARGETED SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal Letters, 2014, 789, L34.	8.3	14
110	Simulations of reflected radio signals from cosmic ray induced air showers. Astroparticle Physics, 2015, 66, 31-38.	4.3	14
111	Multi-resolution anisotropy studies of ultrahigh-energy cosmic rays detected at the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 026-026.	5.4	14
112	Energy determination of extensive air showers through the fluorescence technique. Physical Review D, 2003, 67, .	4.7	13
113	Characterisation of the electromagnetic component in ultra-high energy inclined air showers. Astroparticle Physics, 2010, 32, 304-317.	4.3	13
114	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
115	Prospects for radio detection of extremely high energy cosmic rays and neutrinos in the Moon. AIP Conference Proceedings, 2001, , .	0.4	11
116	Transition radiation at radio frequencies from ultrahigh-energy neutrino-induced showers. Physical Review D, 2016, 93, .	4.7	11
117	Askaryan radiation from neutrino-induced showers in ice. Physical Review D, 2020, 101, .	4.7	10
118	GRB 941017: A Case Study of Neutrino Production in Gamma-Ray Bursts. Astrophysical Journal, 2004, 604, L85-L88.	4.5	9
119	Anisotropy and chemical composition of ultra-high energy cosmic rays using arrival directions measured by the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 022-022.	5.4	9
120	Review of the Multimessenger Working Group at UHECR-2012. EPJ Web of Conferences, 2013, 53, 01009.	0.3	9
121	Overview of lunar detection of ultra-high energy particles and new plans for the SKA. EPJ Web of Conferences, 2017, 135, 04001.	0.3	9
122	Publisherâ€™s Note: Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory [Phys. Rev. D84, 122005 (2011)]. Physical Review D, 2012, 85, .	4.7	8
123	Identifying clouds over the Pierre Auger Observatory using infrared satellite data. Astroparticle Physics, 2013, 50-52, 92-101.	4.3	8
124	The MIDAS telescope for microwave detection of ultra-high energy cosmic rays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 719, 70-80.	1.6	8
125	Impact of atmospheric effects on the energy reconstruction of air showers observed by the surface detectors of the Pierre Auger Observatory. Journal of Instrumentation, 2017, 12, P02006-P02006.	1.2	8
126	Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. Astroparticle Physics, 2017, 95, 44-56.	4.3	7

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127	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
128	The Air Microwave Yield (AMY) experiment to measure the GHz emission from air shower plasmas. EPJ Web of Conferences, 2013, 53, 08011.	0.3	6
129	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
130	A New Concept for High-Elevation Radio Detection of Tau Neutrinos. EPJ Web of Conferences, 2019, 216, 04007.	0.3	6
131	Percolation and high energy cosmic rays above 1017eV. Astroparticle Physics, 2007, 27, 271-277.	4.3	5
132	Status report and future prospects on LUNASKA lunar observations with ATCA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, S112-S115.	1.6	5
133	A comprehensive study of shower to shower fluctuations. Astroparticle Physics, 2011, 34, 503-512.	4.3	5
134	Status and strategies of current LUNASKA lunar Cherenkov observations with the Parkes radio telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 662, S95-S98.	1.6	5
135	Lunar detection of ultra-high-energy cosmic rays and neutrinos with the Square Kilometre Array. , 2015, , .		5
136	The Giant Radio Array for Neutrino Detection (GRAND): Present and Perspectives. , 2017, , .		4
137	A model for net-baryon rapidity distribution. European Physical Journal C, 2009, 61, 391-399.	3.9	3
138	Ultra high frequency geomagnetic radiation from extensive air showers. AIP Conference Proceedings, 2013, , .	0.4	3
139	SIMULATIONS OF RADIO EMISSION FROM ELECTROMAGNETIC SHOWERS IN DENSE MEDIA. International Journal of Modern Physics A, 2006, 21, 55-59.	1.5	2
140	Microwave detection of air showers with the MIDAS experiment. Nuclear Physics, Section B, Proceedings Supplements, 2011, 212-213, 329-335.	0.4	2
141	The Pierre Auger Observatory status and latest results. EPJ Web of Conferences, 2017, 136, 02017.	0.3	2
142	Calculations of radio pulses from high energy showers. AIP Conference Proceedings, 2001, , .	0.4	1
143	Radio pulses from electromagnetic, hadronic and neutrino-induced showers up to EeV energies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 662, S187-S190.	1.6	1
144	Determination of cosmic-ray primary mass on an event-by-event basis using radio detection. Astroparticle Physics, 2019, 109, 41-49.	4.3	1

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145	The lunar Askaryan technique with the Square Kilometre Array. , 2016, , .		1
146	Progress in the Simulation and Modelling of Coherent Radio Pulses from Ultra High-Energy Cosmic Particles. Universe, 2022, 8, 297.	2.5	1
147	Ultra high energy cosmic rays and magnetic fields. Nuclear Physics, Section B, Proceedings Supplements, 2002, 110, 491-493.	0.4	0
148	On the role of hadronic interactions in giant air showers. Nuclear Physics, Section B, Proceedings Supplements, 2003, 122, 345-348.	0.4	0
149	Inclined showers at the Pierre Auger observatory. Journal of Physics: Conference Series, 2008, 110, 062007.	0.4	0
150	Recent results from the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, S30-S36.	1.6	0
151	Coherent Cherenkov radio emission from EeV showers in dense media through thinned simulations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, S27-S29.	1.6	0
152	Selected results from the Pierre Auger Observatory. Journal of Physics: Conference Series, 2009, 171, 012044.	0.4	0
153	The MIDAS experiment: A prototype for the microwave emission of Ultra-High Energy Cosmic Rays. Nuclear Physics, Section B, Proceedings Supplements, 2011, 215, 63-65.	0.4	0
154	Time-domain radio pulses from particle showers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 662, S32-S35.	1.6	0
155	The AMY experiment to measure GHz radiation for Ultra-High Energy Cosmic Ray detection. Journal of Physics: Conference Series, 2013, 409, 012082.	0.4	0
156	Searches for ultra-high energy neutrinos at the Pierre Auger observatory. AIP Conference Proceedings, 2015, , .	0.4	0
157	The AMY experiment: Microwave emission from air shower plasmas. EPJ Web of Conferences, 2016, 121, 03010.	0.3	0
158	Measurement of the cosmic ray flux with the ANITA experiment. EPJ Web of Conferences, 2017, 136, 02014.	0.3	0
159	Phenomenology of transition radiation at radio frequencies from ultrahigh-energy showers. EPJ Web of Conferences, 2017, 135, 05005.	0.3	0
160	The Pierre Auger Observatory Upgrade. EPJ Web of Conferences, 2017, 136, 02003.	0.3	0
161	Exploiting the radio signal from air showers: the AERA progress. EPJ Web of Conferences, 2017, 136, 02013.	0.3	0
162	Astrophysical interpretation of Pierre Auger Observatory measurements of the UHECR energy spectrum and mass composition. EPJ Web of Conferences, 2017, 136, 02002.	0.3	0

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163	SIMULATIONS OF EXTENSIVE AIR SHOWERS: A HYBRID METHOD. , 2004, , .		0
164	The lunar Askaryan technique: a technical roadmap. , 2016, , .		0
165	Ultra-high energy multi-messengers at the Pierre Auger Observatory. , 2017, , .		0
166	Ultra-high energy neutrinos: status and prospects. , 2017, , .		0