

Vitor de souza

List of Publications by Year in descending order

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Version: 2024-02-01

255
papers

15,456
citations

30070

54
h-index

17592

121
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258
all docs

258
docs citations

258
times ranked

10681
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetically Induced Anisotropies in the Arrival Directions of Ultra-high-energy Cosmic Rays from Nearby Radio Galaxies. <i>Astrophysical Journal</i> , 2022, 925, 42.	4.5	6
2	Testing effects of Lorentz invariance violation in the propagation of astroparticles with the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 023.	5.4	5
3	On the detection of direct Cherenkov light from ultrahigh-energy cosmic rays. <i>Astroparticle Physics</i> , 2022, , 102706.	4.3	0
4	A Search for Photons with Energies Above 2×10^{17} eV Using Hybrid Data from the Low-Energy Extensions of the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2022, 933, 125.	4.5	21
5	Extragalactic Magnetic Fields and the Arrival Direction of Ultra-high-energy Cosmic Rays. <i>Astrophysical Journal</i> , 2022, 933, 146.	4.5	0
6	Measuring the depth of shower maximum of extensive air showers using Cherenkov light. <i>Astroparticle Physics</i> , 2021, 124, 102508.	4.3	3
7	Design, upgrade and characterization of the silicon photomultiplier front-end for the AMIGA detector at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P01026-P01026.	1.2	13
8	Final results of the LOPES radio interferometer for cosmic-ray air showers. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	12
9	Parametrization of the angular distribution of Cherenkov light in air showers. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	5
10	Ultrahigh-energy cosmic rays dipole and beyond. <i>Physical Review D</i> , 2021, 103, .	4.7	5
11	Calibration of the underground muon detector of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P04003.	1.2	5
12	Measurement of the Fluctuations in the Number of Muons in Extensive Air Showers with the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2021, 126, 152002.	7.8	34
13	Probing UHECR production in Centaurus A using secondary neutrinos and gamma-rays. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	0
14	Effect of the uncertainty in the hadronic interaction models on the estimation of the sensitivity of the Cherenkov telescope array. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2021, 48, 075201.	3.6	4
15	The FRAM robotic telescope for atmospheric monitoring at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P06027.	1.2	2
16	Large-scale and multipolar anisotropies of cosmic rays detected at the Pierre Auger Observatory with energies above 4 EeV. , 2021, , .		9
17	Deep-learning based reconstruction of the shower maximum X_{max} using the water-Cherenkov detectors of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P07019.	1.2	16
18	Extraction of the muon signals recorded with the surface detector of the Pierre Auger Observatory using recurrent neural networks. <i>Journal of Instrumentation</i> , 2021, 16, P07016.	1.2	11

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19	Design and implementation of the AMIGA embedded system for data acquisition. Journal of Instrumentation, 2021, 16, T07008.	1.2	3
20	Semi-analytical model of extensive air showers using branching processes. Astroparticle Physics, 2021, 131, 102585.	4.3	0
21	The energy spectrum of cosmic rays beyond the turn-down around 10^{17} eV as measured with the surface detector of the Pierre Auger Observatory. European Physical Journal C, 2021, 81, 1.	3.9	44
22	On the parametrization of the distributions of depth of shower maximum of ultra-high energy extensive air showers. Astroparticle Physics, 2020, 116, 102389.	4.3	4
23	Measurement of the cosmic-ray energy spectrum above 2.5×10^{18} eV using the Pierre Auger Observatory. Physical Review D, 2020, 102, .	4.7	98
24	Features of the Energy Spectrum of Cosmic Rays above 2.5×10^{18} eV Using the Pierre Auger Observatory. Physical Review Letters, 2020, 125, 121106.	7.8	79
25	Lorentz Invariance Violation Tests in Astroparticle Physics. Symmetry, 2020, 12, 1232.	2.2	25
26	Revisiting the distance to the nearest ultrahigh energy cosmic ray source: Effects of extragalactic magnetic fields. Physical Review D, 2020, 102, .	4.7	11
27	Studies on the response of a water-Cherenkov detector of the Pierre Auger Observatory to atmospheric muons using an RPC hodoscope. Journal of Instrumentation, 2020, 15, P09002-P09002.	1.2	5
28	Direct measurement of the muonic content of extensive air showers between 2×10^{17} and 2×10^{18} eV at the Pierre Auger Observatory. European Physical Journal C, 2020, 80, 1.	3.9	36
29	Reconstruction of events recorded with the surface detector of the Pierre Auger Observatory. Journal of Instrumentation, 2020, 15, P10021-P10021.	1.2	20
30	Search for magnetically-induced signatures in the arrival directions of ultra-high-energy cosmic rays measured at the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 017-017.	5.4	10
31	A 3-Year Sample of Almost 1,600 Elves Recorded Above South America by the Pierre Auger Cosmic-Ray Observatory. Earth and Space Science, 2020, 7, e2019EA000582.	2.6	9
32	Cosmic-Ray Anisotropies in Right Ascension Measured by the Pierre Auger Observatory. Astrophysical Journal, 2020, 891, 142.	4.5	39
33	A Search for Ultra-high-energy Neutrinos from TXS 0506+056 Using the Pierre Auger Observatory. Astrophysical Journal, 2020, 902, 105.	4.5	13
34	Depth of maximum of air-shower profiles: testing the compatibility of measurements performed at the Pierre Auger Observatory and the Telescope Array experiment. EPJ Web of Conferences, 2019, 210, 01009.	0.3	12
35	Long term experience in Autonomous Stations and production quality control. Journal of Instrumentation, 2019, 14, C07002-C07002.	1.2	6
36	Probing the origin of ultra-high-energy cosmic rays with neutrinos in the EeV energy range using the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 022-022.	5.4	64

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37	Data-driven estimation of the invisible energy of cosmic ray showers with the Pierre Auger Observatory. <i>Physical Review D</i> , 2019, 100, .	4.7	20
38	Limits on point-like sources of ultra-high-energy neutrinos with the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 004-004.	5.4	18
39	Summary of the main results of the KASCADE and KASCADE-Grande experiments. <i>EPJ Web of Conferences</i> , 2019, 208, 03002.	0.3	3
40	Recent results from the KASCADE-Grande data analysis. <i>EPJ Web of Conferences</i> , 2019, 208, 04005.	0.3	0
41	Study of the muon content of high-energy air showers with KASCADE-Grande. <i>EPJ Web of Conferences</i> , 2019, 208, 06003.	0.3	0
42	Search for Large-scale Anisotropy in the Arrival Direction of Cosmic Rays with KASCADE-Grande. <i>Astrophysical Journal</i> , 2019, 870, 91.	4.5	12
43	Improved limits on Lorentz invariance violation from astrophysical gamma-ray sources. <i>Physical Review D</i> , 2019, 99, .	4.7	32
44	Measurement of the average shape of longitudinal profiles of cosmic-ray air showers at the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 018-018.	5.4	10
45	Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. <i>Astroparticle Physics</i> , 2019, 111, 35-53.	4.3	35
46	Searching for dark matter in the Galactic halo with a wide field of view TeV gamma-ray observatory in the Southern Hemisphere. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 061-061.	5.4	17
47	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
48	Limits on the Lorentz Invariance Violation from UHECR Astrophysics. <i>Astrophysical Journal</i> , 2018, 853, 23.	4.5	21
49	MARTA: a high-energy cosmic-ray detector concept for high-accuracy muon measurement. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	9
50	Large-scale Cosmic-Ray Anisotropies above 4 EeV Measured by the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2018, 868, 4.	4.5	77
51	Tests of the SIBYLL 2.3 high-energy hadronic interaction model using the KASCADE-Grande muon data. <i>EPJ Web of Conferences</i> , 2018, 172, 07003.	0.3	1
52	The KASCADE Cosmic-ray Data Centre KCDC: granting open access to astroparticle physics research data. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	22
53	Observation of inclined EeV air showers with the radio detector of the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 026-026.	5.4	30
54	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

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55	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
56	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
57	Muon counting using silicon photomultipliers in the AMIGA detector of the Pierre Auger observatory. Journal of Instrumentation, 2017, 12, P03002-P03002.	1.2	16
58	Search for photons with energies above 10^{18} eV using the hybrid detector of the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 009-009.	5.4	49
59	A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 837, L25.	8.3	21
60	KASCADE-Grande Limits on the Isotropic Diffuse Gamma-Ray Flux between 100 TeV and 1 EeV. Astrophysical Journal, 2017, 848, 1.	4.5	57
61	Multi-messenger Observations of a Binary Neutron Star Merger [*] . Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
62	Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. Astroparticle Physics, 2017, 95, 44-56.	4.3	7
63	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
64	A new air-shower observable to constrain hadronic interaction models. Astroparticle Physics, 2017, 93, 28-37.	4.3	1
65	Astroparticle Physics Tests of Lorentz Invariance Violation. Journal of Physics: Conference Series, 2017, 866, 012008.	0.4	3
66	Probing the evolution of the EAS muon content in the atmosphere with KASCADE-Grande. Astroparticle Physics, 2017, 95, 25-43.	4.3	42
67	Inferences on mass composition and tests of hadronic interactions from 0.3 to 100 EeV using the water-Cherenkov detectors of the Pierre Auger Observatory. Physical Review D, 2017, 96, .	4.7	82
68	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
69	Muon density measurements for the light and heavy mass groups of cosmic rays at the KASCADE-Grande observatory. Nuclear and Particle Physics Proceedings, 2017, 291-293, 152-157.	0.5	0
70	KASCADE-Grande energy reconstruction based on the lateral density distribution using the QGSJet-II.04 interaction model. AIP Conference Proceedings, 2017, , .	0.4	1
71	Preliminary studies of the effect of thinning techniques over muon production profiles. Journal of Physics: Conference Series, 2017, 866, 012002.	0.4	0
72	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

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73	KASCADE-Grande: Composition studies in the view of the post-LHC hadronic interaction models. EPJ Web of Conferences, 2017, 145, 13001.	0.3	0
74	Interferometric Radio Measurements of Air Showers with LOPES: Final Results. , 2017, , .		2
75	The influence of the observatory latitude on the study of ultra high energy cosmic rays. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 041-041.	5.4	0
76	KASCADE-Grande: Composition studies in the view of the post-LHC hadronic interaction models. EPJ Web of Conferences, 2017, 145, 13001.	0.3	0
77	Ultra high energy cosmic rays and possible signature of black strings. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 014-014.	5.4	4
78	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
79	KASCADE-Grande experiment measurements of the cosmic ray spectrum and large scale anisotropy. Nuclear and Particle Physics Proceedings, 2016, 279-281, 56-62.	0.5	3
80	A comparison of the cosmic-ray energy scales of Tunka-133 and KASCADE-Grande via their radio extensions Tunka-Rex and LOPES. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 179-185.	4.1	32
81	Evidence for a mixed mass composition at the "ankle" in the cosmic-ray spectrum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 288-295.	4.1	84
82	Search for ultrarelativistic magnetic monopoles with the Pierre Auger observatory. Physical Review D, 2016, 94, .	4.7	15
83	Interpretation of measurements of the number of muons in extensive air shower experiments. Astroparticle Physics, 2016, 83, 40-52.	4.3	4
84	Azimuthal asymmetry in the risetime of the surface detector signals of the Pierre Auger Observatory. Physical Review D, 2016, 93, .	4.7	21
85	Energy estimation of cosmic rays with the Engineering Radio Array of the Pierre Auger Observatory. Physical Review D, 2016, 93, .	4.7	80
86	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
87	Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. Physical Review Letters, 2016, 117, 192001.	7.8	154
88	Nanosecond-level time synchronization of autonomous radio detector stations for extensive air showers. Journal of Instrumentation, 2016, 11, P01018-P01018.	1.2	20
89	On-site mirror facet condensation measurements for the Cherenkov Telescope Array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 830, 407-416.	1.6	0
90	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

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91	Prototype muon detectors for the AMIGA component of the Pierre Auger Observatory. Journal of Instrumentation, 2016, 11, P02012-P02012.	1.2	38
92	Improved absolute calibration of LOPES measurements and its impact on the comparison with REAS 3.11 and CoREAS simulations. Astroparticle Physics, 2016, 75, 72-74.	4.3	27
93	Cosmic ray energy reconstruction from the S(500) observable recorded in the KASCADE-Grande air shower experiment. Astroparticle Physics, 2016, 77, 21-31.	4.3	7
94	KCDC " The KASCADE Cosmic-ray Data Centre. Journal of Physics: Conference Series, 2015, 632, 012011.	0.4	2
95	Refined lateral energy correction functions for the KASCADE-Grande experiment based on Geant4 simulations. , 2015, , .		0
96	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
97	The KASCADE-Grande observatory and the composition of very high-energy cosmic rays. Journal of Physics: Conference Series, 2015, 651, 012001.	0.4	3
98	LOPES " Recent Results and Open Questions on the Radio Detection of Air Showers. Journal of Physics: Conference Series, 2015, 632, 012102.	0.4	3
99	Measurement of the cosmic ray spectrum above 4×10^{18} eV using inclined events detected with the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 049-049.	5.4	20
100	On a coherent investigation of the spectrum of cosmic rays in the energy range of 10^{14} to 10^{18} eV with KASCADE and KASCADE-Grande. Journal of Physics: Conference Series, 2015, 632, 012025.	0.4	1
101	A limit on the diffuse gamma-rays measured with KASCADE-Grande. Journal of Physics: Conference Series, 2015, 632, 012013.	0.4	10
102	Confronting the EPOS-LHC model predictions on the charged particle and muon attenuation lengths of EAS with the measurements of the KASCADE-Grande observatory. EPJ Web of Conferences, 2015, 99, 12002.	0.3	6
103	The " study with the Muon tracking detector in the KASCADE-Grande experiment " comparison of hadronic interaction models. EPJ Web of Conferences, 2015, 99, 13001.	0.3	2
104	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
105	Improved limit to the diffuse flux of ultrahigh energy neutrinos from the Pierre Auger Observatory. Physical Review D, 2015, 91, .	4.7	125
106	Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events. Physical Review D, 2015, 91, .	4.7	152
107	Cosmic rays: the spectrum and chemical composition from 10^{10} to 10^{20} eV. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 042-042.	5.4	9
108	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

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109	LARGE SCALE DISTRIBUTION OF ULTRA HIGH ENERGY COSMIC RAYS DETECTED AT THE PIERRE AUGER OBSERVATORY WITH ZENITH ANGLES UP TO 80°. Astrophysical Journal, 2015, 802, 111. Lateral distributions of EAS muons (http://www.w3.org/1998/Math/MathML) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.5	49
110	 $\langle m \rangle$. Astroparticle Physics, 2015, 65, 55-63.	4.3	17
111	Studies of the cosmic ray spectrum and large scale anisotropies with the KASCADE-Grande experiment. Journal of Physics: Conference Series, 2014, 531, 012001.	0.4	4
112	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above 10^{19} eV. Physical Review D, 2014, 90, .	4.7	266
113	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. II. Composition implications. Physical Review D, 2014, 90, .	4.7	213
114	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
115	A SEARCH FOR POINT SOURCES OF EeV PHOTONS. Astrophysical Journal, 2014, 789, 160.	4.5	29
116	Upper limits on the total cosmic-ray luminosity of individual sources. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 049-049.	5.4	10
117	Reconstruction of inclined air showers detected with the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 019-019.	5.4	49
118	Probing the radio emission from air showers with polarization measurements. Physical Review D, 2014, 89, .	4.7	85
119	The cosmic ray spectrum and composition measured by KASCADE-Grande between 1016 eV and 1018 eV. Nuclear Physics, Section B, Proceedings Supplements, 2014, 256-257, 149-160.	0.4	7
120	Reconstruction of the energy and depth of maximum of cosmic-ray air showers from LOPES radio measurements. Physical Review D, 2014, 90, .	4.7	57
121	Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth. Physical Review D, 2014, 90, .	4.7	69
122	A TARGETED SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal Letters, 2014, 789, L34.	8.3	14
123	Latest results from the KASCADE-Grande experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 742, 10-15.	1.6	2
124	The KASCADE-Grande energy spectrum of cosmic rays and the role of hadronic interaction models. Advances in Space Research, 2014, 53, 1456-1469.	2.6	40
125	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
126	The wavefront of the radio signal emitted by cosmic ray air showers. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 025-025.	5.4	42

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127	KASCADE-Grande measurements of energy spectra for elemental groups of cosmic rays. <i>Astroparticle Physics</i> , 2013, 47, 54-66.	4.3	163
128	An upper limit on the cosmic-ray luminosity of individual sources from gamma-ray observations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 023-023.	5.4	17
129	Identifying clouds over the Pierre Auger Observatory using infrared satellite data. <i>Astroparticle Physics</i> , 2013, 50-52, 92-101.	4.3	8
130	Introducing the CTA concept. <i>Astroparticle Physics</i> , 2013, 43, 3-18.	4.3	504
131	Comparing LOPES measurements of air-shower radio emission with REAS 3.11 and CoREAS simulations. <i>Astroparticle Physics</i> , 2013, 50-52, 76-91.	4.3	15
132	Comparison of the moments of the distribution predicted by different cosmic ray shower simulation models. <i>Astroparticle Physics</i> , 2013, 47, 18-30.	4.3	7
133	Cosmic rays in the classroom. <i>Physics Education</i> , 2013, 48, 238-246.	0.5	1
134	Cosmic ray measurements with LOPES: Status and recent results. , 2013, , .		8
135	Comparison of LOPES measurements with CoREAS and REAS 3.11 simulations. , 2013, , .		4
136	Reconstructing energy and Xmax of cosmic ray air showers using the radio lateral distribution measured with LOPES. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	6
137	LOPES-3D - vectorial measurements of radio emission from cosmic ray induced air showers. , 2013, , .		0
138	Ultrahigh Energy Neutrinos at the Pierre Auger Observatory. <i>Advances in High Energy Physics</i> , 2013, 2013, 1-18.	1.1	39
139	Ankle-like feature in the energy spectrum of light elements of cosmic rays observed with KASCADE-Grande. <i>Physical Review D</i> , 2013, 87, .	4.7	96
140	Techniques for measuring aerosol attenuation using the Central Laser Facility at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2013, 8, P04009-P04009.	1.2	24
141	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
142	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
143	Bounds on the density of sources of ultra-high energy cosmic rays from the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 009-009.	5.4	34
144	Status of the technologies for the production of the Cherenkov Telescope Array (CTA) mirrors. , 2013, , .		8

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145	Radio Measurements of Air Showers with LOPES. Journal of Physics: Conference Series, 2013, 409, 012075.	0.4	2
146	All-particle energy spectrum of KASCADE-Grande based on shower size and different hadronic interaction models. Journal of Physics: Conference Series, 2013, 409, 012101.	0.4	3
147	Separation of the light and heavy mass groups of 10^{16} – 10^{18} eV cosmic rays by studying the ratio muon size to shower size of KASCADE-Grande data. Journal of Physics: Conference Series, 2013, 409, 012095.	0.4	2
148	KASCADE-Grande observation of features in the cosmic ray spectrum between knee and ankle. Journal of Physics: Conference Series, 2013, 409, 012005.	0.4	1
149	Mass composition working group report. EPJ Web of Conferences, 2013, 53, 01006.	0.3	33
150	Test of hadronic interaction models with the KASCADE-Grande muon data. EPJ Web of Conferences, 2013, 52, 07002.	0.3	3
151	DETECTION OF A CHANGE OF SLOPE IN THE SPECTRUM OF HEAVY MASS COSMIC RAYS PRIMARIES BY THE KASCADE-GRANDE EXPERIMENT. Acta Polytechnica, 2013, 53, 728-731.	0.6	0
152	Measurements of the longitudinal shower development with the Pierre Auger Observatory. EPJ Web of Conferences, 2013, 53, 04007.	0.3	0
153	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
154	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
155	Experimental evidence for the sensitivity of the air-shower radio signal to the longitudinal shower development. Physical Review D, 2012, 85, .	4.7	43
156	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
157	Publisher'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
158	A SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal, 2012, 760, 148.	4.5	27
159	LARGE-SCALE DISTRIBUTION OF ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE 10^{18} eV AT THE PIERRE AUGER OBSERVATORY. Astrophysical Journal, Supplement Series, 2012, 203, 34.	7.7	44
160	The rapid atmospheric monitoring system of the Pierre Auger Observatory. Journal of Instrumentation, 2012, 7, P09001-P09001.	1.2	24
161	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
162	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

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163	The spectrum of high-energy cosmic rays measured with KASCADE-Grande. <i>Astroparticle Physics</i> , 2012, 36, 183-194.	4.3	148
164	Results from KASCADE-Grande. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 692, 217-223.	1.6	1
165	LOPES-3D: An antenna array for full signal detection of air-shower radio emission. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 696, 100-109.	1.6	15
166	CENTAURUS A: THE EXTRAGALACTIC SOURCE OF COSMIC RAYS WITH ENERGIES ABOVE THE KNEE. <i>Astrophysical Journal</i> , 2012, 746, 72.	4.5	34
167	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
168	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
169	On noise treatment in radio measurements of cosmic ray air showers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 662, S238-S241.	1.6	19
170	The LOPES experiment-Recent results, status and perspectives. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 662, S72-S79.	1.6	23
171	Latest results and perspectives of the KASCADE-Grande EAS Facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 662, S150-S156.	1.6	2
172	Investigations of the radio signal of inclined showers with LOPES. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 662, S85-S88.	1.6	0
173	Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory. <i>Physical Review D</i> , 2011, 84, .	4.7	51
174	Anisotropy and chemical composition of ultra-high energy cosmic rays using arrival directions measured by the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 022-022.	5.4	9
175	Kneelike Structure in the Spectrum of the Heavy Component of Cosmic Rays Observed with KASCADE-Grande. <i>Physical Review Letters</i> , 2011, 107, 171104.	7.8	163
176	THE EXTENSIVE AIR SHOWER EXPERIMENT KASCADE-GRANDE. <i>International Journal of Modern Physics Conference Series</i> , 2011, 01, 132-139.	0.7	0
177	The Pierre Auger Observatory scaler mode for the study of solar activity modulation of galactic cosmic rays. <i>Journal of Instrumentation</i> , 2011, 6, P01003-P01003.	1.2	16
178	Thunderstorm observations by air-shower radio antenna arrays. <i>Advances in Space Research</i> , 2011, 48, 1295-1303.	2.6	17
179	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
180	Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. <i>Experimental Astronomy</i> , 2011, 32, 193-316.	3.7	640

#	ARTICLE	IF	CITATIONS
181	The exposure of the hybrid detector of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2011, 34, 368-381.	4.3	54
182	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
183	The LOPES experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2011, 212-213, 323-328.	0.4	1
184	Muon production height studies with the air shower experiment KASCADE-Grande. <i>Astroparticle Physics</i> , 2011, 34, 476-485.	4.3	27
185	Measurement of radio emission from extensive air showers with LOPES. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 630, 171-176.	1.6	3
186	Investigation of the properties of galactic cosmic rays with the KASCADE-Grande experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 630, 222-225.	1.6	1
187	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
188	Restoring the azimuthal symmetry of lateral distributions of charged particles in the range of the KASCADE-Grande experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 638, 147-156.	1.6	10
189	The measurement of the cosmic ray primary energy spectrum at 10^{16} – 10^{18} eV with the KASCADE-Grande experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2011, 212-213, 68-73.	0.4	0
190	The effect of the geomagnetic field on cosmic ray energy estimates and large scale anisotropy searches on data from the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 022-022.	5.4	24
191	The cosmic ray energy spectrum in the range 10^{16} – 10^{18} eV measured by KASCADE-Grande. <i>Astrophysics and Space Sciences Transactions</i> , 2011, 7, 229-234.	1.0	13
192	Primary energy reconstruction from the charged particle densities recorded at 500 m distance from shower core with the KASCADE-Grande detector. <i>Astrophysics and Space Sciences Transactions</i> , 2011, 7, 191-194.	1.0	0
193	New measurements of cosmic ray air showers with the digital radio interferometer LOPES. <i>Astrophysics and Space Sciences Transactions</i> , 2011, 7, 303-306.	1.0	6
194	Primary Energy Spectrum as Reconstructed from S(500) Measurements by KASCADE-Grande. , 2010, , .		0
195	Restoring The Azimuthal Symmetry Of Charged Particle Lateral Density In The Range Of KASCADE-Grande. , 2010, , .		0
196	Primary Energy Reconstruction from the Charged Particle Densities Recorded with the KASCADE-Grande Detector at 500 m Distance from Shower Core. , 2010, , .		1
197	ULTRA-HIGH-ENERGY COSMIC RAYS FROM CENTAURUS A: JET INTERACTION WITH GASEOUS SHELLS. <i>Astrophysical Journal Letters</i> , 2010, 720, L155-L158.	8.3	31
198	Lateral distribution of the radio signal in extensive air showers measured with LOPES. <i>Astroparticle Physics</i> , 2010, 32, 294-303.	4.3	72

#	ARTICLE	IF	CITATIONS
199	A study of the effect of molecular and aerosol conditions in the atmosphere on air fluorescence measurements at the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2010, 33, 108-129.	4.3	84
200	Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter. <i>Astroparticle Physics</i> , 2010, 34, 314-326.	4.3	270
201	Measuring the radio emission of cosmic ray air showers with LOPES. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 617, 515-516.	1.6	4
202	Trigger and aperture of the surface detector array of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 613, 29-39.	1.6	151
203	Measurement of the energy spectrum of cosmic rays above 10 ¹⁸ eV using the Pierre Auger Observatory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 685, 239-246.	4.1	357
204	The KASCADE-Grande experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 620, 202-216.	1.6	147
205	The fluorescence detector of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 620, 227-251.	1.6	275
206	Measurement of the Depth of Maximum of Extensive Air Showers above 10^{18} eV. <i>Physical Review Letters</i> , 2010, 104, 091101.	7.8	429
207	ACTIVE GALACTIC NUCLEI: SOURCES FOR ULTRA HIGH ENERGY COSMIC RAYS. <i>International Journal of Modern Physics D</i> , 2009, 18, 1577-1581.	2.1	6
208	The KASCADE-Grande Experiment. , 2009, , .		0
209	Investigation of the S(500) distribution for large air showers detected with the KASCADE-Grande array. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 196, 247-250.	0.4	0
210	Muon Production Height investigated by the Air-Shower Experiment KASCADE-Grande. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 196, 305-308.	0.4	0
211	Air shower measurements with the LOPES radio antenna array. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 604, S1-S8.	1.6	8
212	The Air-Shower Experiment KASCADE-Grande. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 196, 80-85.	0.4	5
213	Hadronic interactions and EAS muon pseudorapidities investigated with the Muon Tracking Detector in KASCADE-Grande. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 196, 114-117.	0.4	0
214	Recent results of the LOPES experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 196, 297-300.	0.4	2
215	Radio emission of energetic cosmic ray air showers: Polarization measurements with LOPES. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 604, S81-S84.	1.6	7
216	Analysis of inclined showers measured with LOPES. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 604, S9-S12.	1.6	6

#	ARTICLE	IF	CITATIONS
217	Recent Results from KASCADE-Grande and LOPES. Nuclear Physics, Section B, Proceedings Supplements, 2009, 190, 213-222.	0.4	1
218	The Constant Intensity Cut Method applied to the KASCADE-Grande muon data. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 183-186.	0.4	6
219	Test of the hadronic interaction model EPOS with KASCADE air shower data. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 235-238.	0.4	1
220	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
221	Energy spectra of elemental groups of cosmic rays: Update on the KASCADE unfolding analysis. Astroparticle Physics, 2009, 31, 86-91.	4.3	76
222	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
223	New method to measure the attenuation of hadrons in extensive air showers. Physical Review D, 2009, 80, .	4.7	4
224	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
225	A test of the hadronic interaction model EPOS with air shower data. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 035201.	3.6	21
226	On the correlation of the highest energy cosmic rays with AGNs. Proceedings of the International Astronomical Union, 2009, 5, 251-253.	0.0	0
227	Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. Astroparticle Physics, 2008, 29, 188-204.	4.3	305
228	KASCADE-Grande: An overview and first results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 588, 162-165.	1.6	9
229	Upper limit on the cosmic-ray photon flux above 10 ¹⁹ eV using the surface detector of the Pierre Auger Observatory. Astroparticle Physics, 2008, 29, 243-256.	4.3	161
230	Time structure of the EAS electron and muon components measured by the KASCADE-Grande experiment. Astroparticle Physics, 2008, 29, 317-330.	4.3	9
231	Detecting radio pulses from air showers. , 2008, , .		1
232	Observation of the Suppression of the Flux of Cosmic Rays above 4×10^{19} eV. Physical Review Letters, 2008, 101, 061101.	7.8	500
233	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
234	The KASCADE-grande experiment. Journal of Physics: Conference Series, 2008, 120, 062026.	0.4	0

#	ARTICLE	IF	CITATIONS
235	Status of the KASCADE-Grande experiment. Journal of Physics: Conference Series, 2008, 110, 062027.	0.4	0
236	Radio detection of cosmic ray air showers with the LOPES experiment. Journal of Physics: Conference Series, 2008, 110, 062012.	0.4	1
237	Air shower radio detection with LOPES. Journal of Physics: Conference Series, 2008, 120, 062012.	0.4	0
238	Direction identification in radio images of cosmic-ray air showers detected with LOPES and KASCADE. Astronomy and Astrophysics, 2008, 487, 781-788.	5.1	19
239	Frequency spectra of cosmic ray air shower radio emission measured with LOPES. Astronomy and Astrophysics, 2008, 488, 807-817.	5.1	27
240	ASTROPARTICLE PHYSICS FROM 10^{16} TO 10^{20} eV. International Journal of Modern Physics E, 2007, 16, 2775-2788.	1.0	1
241	Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects. Science, 2007, 318, 938-943.	12.6	647
242	The knee of cosmic rays – news from KASCADE. AIP Conference Proceedings, 2007, , .	0.4	0
243	Statistical methods applied to composition studies of ultrahigh energy cosmic rays. Astroparticle Physics, 2007, 28, 357-365.	4.3	4
244	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
245	Effects of the energy error distribution of fluorescence telescopes on the UHECR energy spectrum. Astroparticle Physics, 2007, 28, 89-97.	4.3	3
246	Anisotropy studies around the galactic centre at EeV energies with the Auger Observatory. Astroparticle Physics, 2007, 27, 244-253.	4.3	51
247	On the fluctuations of the fluorescence photon yield of electrons in extensive air showers for different atmospheric conditions. Astroparticle Physics, 2006, 25, 84-92.	4.3	2
248	Shower size parameter as an estimator of extensive air shower energy in fluorescence telescopes. Physical Review D, 2006, 73, .	4.7	2
249	Longitudinal development of extensive air showers: Hybrid code SENECA and full Monte Carlo. Astroparticle Physics, 2005, 23, 463-476.	4.3	9
250	Acceptance of fluorescence detectors and its implication in energy spectrum inference at the highest energies. Physical Review D, 2005, 72, .	4.7	7
251	A Monte Carlo method to generate fluorescence light in extensive air showers. Astroparticle Physics, 2004, 22, 263-273.	4.3	3
252	Manufacturing the Schmidt corrector lens for the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 522, 360-370.	1.6	6

#	ARTICLE	IF	CITATIONS
253	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
254	Analysis of the Čerenkov time profile as a technique to distinguish the primary particle. Nuclear Physics, Section B, Proceedings Supplements, 2001, 97, 290-293.	0.4	0
255	Cosmic ray transport and anisotropies to high energies. ASTRA Proceedings, 0, 2, 39-44.	0.0	4