JÃ¶rg HÃ¶randel

List of Publications by Year
in descending order

309 papers	9,955 citations	38742 50 h-index	39675 94 g-index
313 all docs	313 docs citations	313 times ranked	3828 citing authors

#	Article	IF	Citations
1	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:msup> Physical Review Letters, 2008, 101, 061101.	7.8	500
2	KASCADE measurements of energy spectra for elemental groups of cosmic rays: Results and open problems. Astroparticle Physics, 2005, 24, 1-25.	4.3	465
3	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:m Physical Review Letters, 2010, 104, 091101.	7.8	429
4	On the knee in the energy spectrum of cosmic rays. Astroparticle Physics, 2003, 19, 193-220.	4.3	360
5	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
6	The cosmic-ray experiment KASCADE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 513, 490-510.	1.6	306
7	Detection and imaging of atmospheric radio flashes from cosmic ray air showers. Nature, 2005, 435, 313-316.	27.8	297
8	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
9	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> the Pierre Auger Observatory. Physical Review Letters, 2012, 109, 062002.	7.8	212
10	Cosmic rays from the knee to the highest energies. Progress in Particle and Nuclear Physics, 2009, 63, 293-338.	14.4	208
11	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
12	Kneelike Structure in the Spectrum of the Heavy Component of Cosmic Rays Observed with KASCADE-Grande. Physical Review Letters, 2011, 107, 171104.	7.8	163
13	KASCADE-Grande measurements of energy spectra for elemental groups of cosmic rays. Astroparticle Physics, 2013, 47, 54-66.	4.3	163
14	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
15	The spectrum of high-energy cosmic rays measured with KASCADE-Grande. Astroparticle Physics, 2012, 36, 183-194.	4.3	148
16	The KASCADE-Grande experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 202-216.	1.6	147
17	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
18	Models of the knee in the energy spectrum of cosmic rays. Astroparticle Physics, 2004, 21, 241-265.	4.3	144

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19	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
20	A large light-mass component of cosmic rays at 1017â€“1017.5 electronvolts from radio observations. Nature, 2016, 531, 70-73.	27.8	116
21	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
22	A warm-liquid calorimeter for cosmic-ray hadrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 427, 528-542.	1.6	97
23	Ankle-like feature in the energy spectrum of light elements of cosmic rays observed with KASCADE-Grande. Physical Review D, 2013, 87, .	4.7	96
24	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
25	Detecting cosmic rays with the LOFAR radio telescope. Astronomy and Astrophysics, 2013, 560, A98.	5.1	93
26	Electron, muon, and hadron lateral distributions measured in air showers by the KASCADE experiment. Astroparticle Physics, 2001, 14, 245-260.	4.3	92
27	Cosmic-ray energy spectrum and composition up to the ankle: the case for a second Galactic component. Astronomy and Astrophysics, 2016, 595, A33.	5.1	92
28	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
29	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
30	Composition of Primary Cosmicâ€Ray Nuclei at High Energies. Astrophysical Journal, 2008, 678, 262-273.	4.5	82
31	Largeâ€Scale Cosmicâ€Ray Anisotropy with KASCADE. Astrophysical Journal, 2004, 604, 687-692.	4.5	79
32	Features of the Energy Spectrum of Cosmic Rays above <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2.5</mml:mn><mml:mo>Ã—</mml:mo><mml:msup><mml:mn>10</mml:mn><mml:mn>18</mml:mn></mm Using the Pierre Auger Observatory. Physical Review Letters, 2020, 125, 121106.	7.8	79
33	KASCADE-Grande: a large acceptance, high-resolution cosmic-ray detector up to. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 207-209.	1.6	76
34	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
35	Lateral distribution of the radio signal in extensive air showers measured with LOPES. Astroparticle Physics, 2010, 32, 294-303.	4.3	72
36	A non-parametric approach to infer the energy spectrum and the mass composition of cosmic rays. Astroparticle Physics, 2002, 16, 245-263.	4.3	71

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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. Astrophysical Journal Letters, 2013, 762, L13.	8.3	67
38	Needle-like structures discovered on positively charged lightning branches. Nature, 2019, 568, 360-363.	27.8	67
39	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
40	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
41	Nearby supernova remnants and the cosmic ray spectral hardening at high energies. Monthly Notices of the Royal Astronomical Society, 2012, 421, 1209-1214.	4.4	63
42	GeV-TeV cosmic-ray spectral anomaly as due to reacceleration by weak shocks in the Galaxy. Astronomy and Astrophysics, 2014, 567, A33.	5.1	59
43	Polarized radio emission from extensive air showers measured with LOFAR. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 014-014.	5.4	58
44	A parameterization for the radio emission of air showers as predicted by CoREAS simulations and applied to LOFAR measurements. Astroparticle Physics, 2015, 60, 13-24.	4.3	58
45	KASCADE-Grande Limits on the Isotropic Diffuse Gamma-Ray Flux between 100 TeV and 1 EeV. Astrophysical Journal, 2017, 848, 1.	4.5	57
46	Muon density measurements with the KASCADE central detector. Astroparticle Physics, 2002, 16, 373-386.	4.3	55
47	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
48	The exposure of the hybrid detector of the Pierre Auger Observatory. Astroparticle Physics, 2011, 34, 368-381.	4.3	54
49	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
50	Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory. Physical Review D, 2011, 84, .	4.7	51
51	On total inelastic cross sections and the average depth of the maximum of extensive air showers. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 2439-2464.	3.6	50
52	Comparison of measured and simulated lateral distributions for electrons and muons with KASCADE. Astroparticle Physics, 2006, 24, 467-483.	4.3	50
53	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
54	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

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55	IMAGINE: a comprehensive view of the interstellar medium, Galactic magnetic fields and cosmic rays. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 049-049.	5.4	49
56	The shape of the radio wavefront of extensive air showers as measured with LOFAR. Astroparticle Physics, 2015, 61, 22-31.	4.3	47
57	Forbush decreases of cosmic rays: Energy dependence of the recovery phase. Journal of Geophysical Research, 2008, 113, .	3.3	45
58	Transition radiation detectors for energy measurements at high Lorentz factors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 531, 435-444.	1.6	44
59	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
60	The energy spectrum of cosmic rays beyond the turn-down around $$varvec{10^{17}}$$ÂeV as measured with the surface detector of the Pierre Auger Observatory. European Physical Journal C, 2021, 81, 1.	3.9	44
61	Amplified radio emission from cosmic ray air showers in thunderstorms. Astronomy and Astrophysics, 2007, 467, 385-394.	5.1	43
62	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
63	Experimental evidence for the sensitivity of the air-shower radio signal to the longitudinal shower development. Physical Review D, 2012, 85, .	4.7	43
64	Measuring a Cherenkov ring in the radio emission from air showers at 110â€“190MHz with LOFAR. Astroparticle Physics, 2015, 65, 11-21.	4.3	43
65	Air fluorescence relevant for cosmic-ray detectionâ€”Summary of the 5th fluorescence workshop, El Escorial 2007. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 597, 1-22.	1.6	42
66	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
67	Simulation of radiation energy release in air showers. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 024-024.	5.4	42
68	Probing the evolution of the EAS muon content in the atmosphere with KASCADE-Grande. Astroparticle Physics, 2017, 95, 25-43.	4.3	42
69	Probing Atmospheric Electric Fields in Thunderstorms through Radio Emission from Cosmic-Ray-Induced Air Showers. Physical Review Letters, 2015, 114, 165001.	7.8	41
70	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
71	Determining the fraction of cosmic-ray protons at ultrahigh energies with cosmogenic neutrinos. Physical Review D, 2019, 100, .	4.7	40
72	Ultrahigh Energy Neutrinos at the Pierre Auger Observatory. Advances in High Energy Physics, 2013, 2013, 1-18.	1.1	39

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73	LORA: A scintillator array for LOFAR to measure extensive air showers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 339-346.	1.6	39
74	Progress in air shower radio measurements: Detection of distant events. Astroparticle Physics, 2006, 26, 332-340.	4.3	38
75	Calibrating the absolute amplitude scale for air showers measured at LOFAR. Journal of Instrumentation, 2015, 10, P11005-P11005.	1.2	38
76	A sampling calorimeter with warm-liquid ionization chambers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 566, 422-432.	1.6	36
77	Test of hadronic interaction models in the forward region with KASCADE event rates. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 1785-1798.	3.6	35
78	The Primary Proton Spectrum of Cosmic Rays Measured with Single Hadrons at Ground Level. Astrophysical Journal, 2004, 612, 914-920.	4.5	35
79	A New Measurement of the Intensities of the Heavy Primary Cosmicâ€Ray Nuclei around 1 TeV amuâ^'1. Astrophysical Journal, 2004, 607, 333-341.	4.5	34
80	Revisiting the hardening of the cosmic ray energy spectrum at TeV energies. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2532-2542.	4.4	33
81	First Experimental Characterization of Microwave Emission from Cosmic Ray Air Showers. Physical Review Letters, 2014, 113, 221101.	7.8	33
82	The radio emission pattern of air showers as measured with LOFARâ€"a tool for the reconstruction of the energy and the shower maximum. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 018-018.	5.4	33
83	Search for Cosmicâ€Ray Point Sources with KASCADE. Astrophysical Journal, 2004, 608, 865-871.	4.5	32
84	COSMIC RAYS FROM THE KNEE TO THE SECOND KNEE: 10¹⁴ TO 10¹⁸eV. Modern Physics Letters A, 2007, 22, 1533-1551.	1.2	32
85	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
86	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
87	Cosmic-ray composition and its relation to shock acceleration by supernova remnants. Advances in Space Research, 2008, 41, 442-463.	2.6	31
88	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
89	A SEARCH FOR POINT SOURCES OF EeV PHOTONS. Astrophysical Journal, 2014, 789, 160.	4.5	29
90	Radio Emission Reveals Inner Meter-Scale Structure of Negative Lightning Leader Steps. Physical Review Letters, 2020, 124, 105101.	7.8	28

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91	Frequency spectra of cosmic ray air shower radio emission measured with LOPES. Astronomy and Astrophysics, 2008, 488, 807-817.	5.1	27
92	Muon production height studies with the air shower experiment KASCADE-Grande. Astroparticle Physics, 2011, 34, 476-485.	4.3	27
93	A SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal, 2012, 760, 148.	4.5	27
94	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
95	First tests of a liquid ionization chamber to monitor intensity modulated radiation beams. Physics in Medicine and Biology, 2003, 48, 3555-3564.	3.0	23
96	The LOPES experimentâ€"Recent results, status and perspectives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 662, S72-S79.	1.6	23
97	The KASCADE Cosmic-ray Data Centre KCDC: granting open access to astroparticle physics research data. European Physical Journal C, 2018, 78, 1.	3.9	22
98	Propagation of super-high-energy cosmic rays in the Galaxy. Astroparticle Physics, 2007, 27, 119-126.	4.3	21
99	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
100	A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 837, L25.	8.3	21
101	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
102	The Initial Stage of Cloud Lightning Imaged in Highâ€Resolution. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033126.	3.3	20
103	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
104	On noise treatment in radio measurements of cosmic ray air showers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 662, S238-S241.	1.6	19
105	Test of interaction models up to 40 PeV by studying hadronic cores of EAS. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 2581-2593.	3.6	18
106	A novel method for the absolute fluorescence yield measurement by AIRFLY. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 597, 55-60.	1.6	18
107	Radio emission of highly inclined cosmic ray air showers measured with LOPES. Astronomy and Astrophysics, 2007, 462, 389-395.	5.1	17
108	The origin of galactic cosmic rays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 588, 181-188.	1.6	17

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109	Thunderstorm observations by air-shower radio antenna arrays. Advances in Space Research, 2011, 48, 1295-1303. Lateral distributions of EAS muons (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 T	2.6	17
110	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si110.gif" overflow="scroll"><mml:mrow><mml:msup><m. Astroparticle Physics, 2015, 65, 55-63.	4.3	17
111	An analytic description of the radio emission of air showers based on its emission mechanisms. Astroparticle Physics, 2019, 104, 64-77.	4.3	17
112	Time structure of the extensive air shower muon component measured by the KASCADE experiment. Astroparticle Physics, 2001, 15, 149-165.	4.3	16
113	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
114	Muon counting using silicon photomultipliers in the AMIGA detector of the Pierre Auger observatory. Journal of Instrumentation, 2017, 12, P03002-P03002.	1.2	16
115	Deep-learning based reconstruction of the shower maximum X _{max} using the water-Cherenkov detectors of the Pierre Auger Observatory. Journal of Instrumentation, 2021, 16, P07019.	1.2	16
116	The information from muon arrival time distributions of high-energy EAS as measured with the KASCADE detector. Astroparticle Physics, 2003, 18, 319-331.	4.3	15
117	Applying shower development universality to KASCADE data. Astroparticle Physics, 2008, 29, 412-419.	4.3	15
118	LOPES-3D: An antenna array for full signal detection of air-shower radio emission. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 696, 100-109.	1.6	15
119	Comparing LOPES measurements of air-shower radio emission with REAS 3.11 and CoREAS simulations. Astroparticle Physics, 2013, 50-52, 76-91.	4.3	15
120	The effect of the atmospheric refractive index on the radio signal of extensive air showers. Astroparticle Physics, 2017, 89, 23-29.	4.3	15
121	Geometric structures in hadronic cores of extensive air showers observed by KASCADE. Physical Review D, 2005, 71, .	4.7	14
122	A TARGETED SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal Letters, 2014, 789, L34.	8.3	14
123	Measurement of the cosmic-ray energy spectrum above 1016ÂeV with the LOFAR Radboud Air Shower Array. Astroparticle Physics, 2016, 73, 34-43.	4.3	14
124	The FRATS project: real-time searches for fast radio bursts and other fast transients with LOFAR at 135 MHz. Astronomy and Astrophysics, 2019, 621, A57.	5.1	14
125	Cosmic Ray Energy Spectra and Mass Composition at the Knee â€“ Recent Results from KASCADE â€“. Nuclear Physics, Section B, Proceedings Supplements, 2004, 136, 273-281.	0.4	13
126	KASCADE: Astrophysical results and tests of hadronic interaction models. Nuclear Physics, Section B, Proceedings Supplements, 2006, 151, 167-174.	0.4	13

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127	RADIO DETECTION OF COSMIC RAYS WITH LOPES. International Journal of Modern Physics A, 2006, 21, 168-181.	1.5	13
128	Air fluorescence relevant for cosmic-ray detectionâ€"Review of pioneering measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 597, 23-31.	1.6	13
129	The cosmic ray energy spectrum in the range 10¹⁶–10¹⁸ eV measured by KASCADE-Grande. Astrophysics and Space Sciences Transactions, 2011, 7, 229-234.	1.0	13
130	Calibration of the LOFAR low-band antennas using the Galaxy and a model of the signal chain. Astroparticle Physics, 2019, 111, 1-11.	4.3	13
131	Design, upgrade and characterization of the silicon photomultiplier front-end for the AMIGA detector at the Pierre Auger Observatory. Journal of Instrumentation, 2021, 16, P01026-P01026.	1.2	13
132	Status of the KASCADE-Grande experiment. Nuclear Physics, Section B, Proceedings Supplements, 2003, 122, 422-426.	0.4	12
133	A measurement of drift velocities of electrons in xenonâ€"methane mixtures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 525, 544-552.	1.6	12
134	Search for Large-scale Anisotropy in the Arrival Direction of Cosmic Rays with KASCADE-Grande. Astrophysical Journal, 2019, 870, 91.	4.5	12
135	Final results of the LOPES radio interferometer for cosmic-ray air showers. European Physical Journal C, 2021, 81, 1.	3.9	12
136	OVERVIEW ON DIRECT AND INDIRECT MEASUREMENTS OF COSMIC RAYS. International Journal of Modern Physics A, 2005, 20, 6753-6764.	1.5	11
137	ADVANCED DETECTION METHODS OF RADIO SIGNALS FROM COSMIC RAYS FOR KASCADE GRANDE AND AUGER. International Journal of Modern Physics A, 2006, 21, 242-246.	1.5	11
138	Forbush decreases and solar events seen in the 10â€"20GeV energy range by the Karlsruhe Muon Telescope. Advances in Space Research, 2009, 43, 480-488.	2.6	11
139	Energy spectrum and elemental composition of cosmic rays in the PeV region. European Physical Journal C, 2004, 33, s944-s946.	3.9	10
140	The TRACER instrument: A balloon-borne cosmic-ray detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 140-156.	1.6	10
141	A limit on the diffuse gamma-rays measured with KASCADE-Grande. Journal of Physics: Conference Series, 2015, 632, 012013.	0.4	10
142	Reconstructing air shower parameters with LOFAR using event specific GDAS atmosphere. Astroparticle Physics, 2020, 123, 102470.	4.3	10
143	Needle Propagation and Twinkling Characteristics. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034252.	3.3	10
144	Investigation of the pseudorapidity and momentum of muons in EAS with the KASCADE muon tracking detector. Nuclear Physics, Section B, Proceedings Supplements, 2006, 151, 291-294.	0.4	9

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145	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
146	LOFAR - A new experiment to record radio emission from cosmic particles. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 289-292.	0.4	9
147	Cosmic ray and neutrino measurements with LOFAR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 482-483.	1.6	9
148	On the point-source approximation of nearby cosmic ray sources. Monthly Notices of the Royal Astronomical Society, 2012, 419, 624-637.	4.4	9
149	A 3â€Year Sample of Almost 1,600 Elves Recorded Above South America by the Pierre Auger Cosmicâ€Ray Observatory. Earth and Space Science, 2020, 7, e2019EA000582.	2.6	9
150	A distinct negative leader propagation mode. Scientific Reports, 2021, 11, 16256.	3.3	9
151	Electron, muon and hadron size spectra of EAS in the â€œkneeâ€•region. Nuclear Physics, Section B, Proceedings Supplements, 1999, 75, 238-240.	0.4	8
152	Air shower measurements with the LOPES radio antenna array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, S1-S8.	1.6	8
153	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
154	Identifying clouds over the Pierre Auger Observatory using infrared satellite data. Astroparticle Physics, 2013, 50-52, 92-101.	4.3	8
155	Cosmic ray measurements with LOPES: Status and recent results. , 2013, , .		8
156	Timing calibration and spectral cleaning of LOFAR time series data. Astronomy and Astrophysics, 2016, 590, A41.	5.1	8
157	IMAGINE: Modeling the Galactic Magnetic Field. Galaxies, 2019, 7, 17.	3.0	8
158	Determining Electric Fields in Thunderclouds With the Radiotelescope LOFAR. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031433.	3.3	8
159	Energy spectra of cosmic rays in the knee region. Nuclear Physics, Section B, Proceedings Supplements, 2003, 122, 218-221.	0.4	7
160	The KASCADE-Grande Experiment and the LOPES Project. Nuclear Physics, Section B, Proceedings Supplements, 2004, 136, 384-389.	0.4	7
161	The end of the galactic cosmic-ray energy spectrum - a phenomenological view. Journal of Physics: Conference Series, 2006, 47, 132-141.	0.4	7
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