Federico Di Pierro

List of Publications by Year in descending order

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120

all docs

119 3,754 26
papers citations h-index

120

docs citations

120 2456
times ranked citing authors

60

g-index

#	Article	IF	CITATIONS
1	Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. Experimental Astronomy, 2011, 32, 193-316.	1.6	640
2	Introducing the CTA concept. Astroparticle Physics, 2013, 43, 3-18.	1.9	504
3	Detection and imaging of atmospheric radio flashes from cosmic ray air showers. Nature, 2005, 435, 313-316.	13.7	297
4	Monte Carlo design studies for the Cherenkov Telescope Array. Astroparticle Physics, 2013, 43, 171-188.	1.9	176
5	Kneelike Structure in the Spectrum of the Heavy Component of Cosmic Rays Observed with KASCADE-Grande. Physical Review Letters, 2011, 107, 171104.	2.9	163
6	KASCADE-Grande measurements of energy spectra for elemental groups of cosmic rays. Astroparticle Physics, 2013, 47, 54-66.	1.9	163
7	The spectrum of high-energy cosmic rays measured with KASCADE-Grande. Astroparticle Physics, 2012, 36, 183-194.	1.9	148
8	The KASCADE-Grande experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 202-216.	0.7	147
9	The Blazar TXS 0506+056 Associated with a High-energy Neutrino: Insights into Extragalactic Jets and Cosmic-Ray Acceleration. Astrophysical Journal Letters, 2018, 863, L10.	3.0	141
10	Ankle-like feature in the energy spectrum of light elements of cosmic rays observed with KASCADE-Grande. Physical Review D, 2013, 87, .	1.6	96
11	Lateral distribution of the radio signal in extensive air showers measured with LOPES. Astroparticle Physics, 2010, 32, 294-303.	1.9	72
12	Reconstruction of the energy and depth of maximum of cosmic-ray air showers from LOPES radio measurements. Physical Review D, 2014, 90, .	1.6	57
13	KASCADE-Grande Limits on the Isotropic Diffuse Gamma-Ray Flux between 100 TeV and 1 EeV. Astrophysical Journal, 2017, 848, 1.	1.6	57
14	FIRST <i>NuSTAR</i> OBSERVATIONS OF MRK 501 WITHIN A RADIO TO TeV MULTI-INSTRUMENT CAMPAIGN. Astrophysical Journal, 2015, 812, 65.	1.6	49
15	Amplified radio emission from cosmic ray air showers in thunderstorms. Astronomy and Astrophysics, 2007, 467, 385-394.	2.1	43
16	Experimental evidence for the sensitivity of the air-shower radio signal to the longitudinal shower development. Physical Review D, 2012, 85, .	1.6	43
17	The wavefront of the radio signal emitted by cosmic ray air showers. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 025-025.	1.9	42
18	Probing the evolution of the EAS muon content in the atmosphere with KASCADE-Grande. Astroparticle Physics, 2017, 95, 25-43.	1.9	42

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19	The KASCADE-Grande energy spectrum of cosmic rays and the role of hadronic interaction models. Advances in Space Research, 2014, 53, 1456-1469.	1.2	40
20	New Hard-TeV Extreme Blazars Detected with the MAGIC Telescopes*. Astrophysical Journal, Supplement Series, 2020, 247, 16.	3.0	39
21	Progress in air shower radio measurements: Detection of distant events. Astroparticle Physics, 2006, 26, 332-340.	1.9	38
22	MAGIC Observations of the Nearby Short Gamma-Ray Burst GRB 160821B [*] . Astrophysical Journal, 2021, 908, 90.	1.6	38
23	First Experimental Characterization of Microwave Emission from Cosmic Ray Air Showers. Physical Review Letters, 2014, 113, 221101.	2.9	33
24	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.	1.5	32
25	Frequency spectra of cosmic ray air shower radio emission measured with LOPES. Astronomy and Astrophysics, 2008, 488, 807-817.	2.1	27
26	Muon production height studies with the air shower experiment KASCADE-Grande. Astroparticle Physics, 2011, 34, 476-485.	1.9	27
27	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.	1.9	27
28	Constraints on Gamma-Ray and Neutrino Emission from NGC 1068 with the MAGIC Telescopes. Astrophysical Journal, 2019, 883, 135.	1.6	27
29	MAGIC detection of short-term variability of the high-peaked BL Lac object 1ES 0806+524. Monthly Notices of the Royal Astronomical Society, 2015, 451, 739-750.	1.6	25
30	Unraveling the Complex Behavior of Mrk 421 with Simultaneous X-Ray and VHE Observations during an Extreme Flaring Activity in 2013 April [*] . Astrophysical Journal, Supplement Series, 2020, 248, 29.	3.0	25
31	Proton acceleration in thermonuclear nova explosions revealed by gamma rays. Nature Astronomy, 2022, 6, 689-697.	4.2	25
32	The KASCADE Cosmic-ray Data Centre KCDC: granting open access to astroparticle physics research data. European Physical Journal C, 2018, 78, 1.	1.4	22
33	A test of the hadronic interaction model EPOS with air shower data. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 035201.	1.4	21
34	Very high-energy $\langle i \rangle \hat{i}^3 \langle i \rangle$ -ray observations of novae and dwarf novae with the MAGIC telescopes. Astronomy and Astrophysics, 2015, 582, A67.	2.1	21
35	Combined searches for dark matter in dwarf spheroidal galaxies observed with the MAGIC telescopes, including new data from Coma Berenices and Draco. Physics of the Dark Universe, 2022, 35, 100912.	1.8	21
36	Direction identification in radio images of cosmic-ray air showers detected with LOPES and KASCADE. Astronomy and Astrophysics, 2008, 487, 781-788.	2.1	19

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37	Radio emission of highly inclined cosmic ray air showers measured with LOPES. Astronomy and Astrophysics, 2007, 462, 389-395.	2.1	17
38	Thunderstorm observations by air-shower radio antenna arrays. Advances in Space Research, 2011, 48, 1295-1303. Lateral distributions of EAS muons (smmkmath xmlns:mml="http://www.w3.org/1998/Math/Math/ML") TI ETO 3	1.2	17
39		1.9	17
40	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.	0.7	15
41	Comparing LOPES measurements of air-shower radio emission with REAS 3.11 and CoREAS simulations. Astroparticle Physics, 2013, 50-52, 76-91.	1.9	15
42	RADIO DETECTION OF COSMIC RAYS WITH LOPES. International Journal of Modern Physics A, 2006, 21, 168-181.	0.5	13
43	The cosmic ray energy spectrum in the range 10 ¹⁸ eV measured by KASCADE-Grande. Astrophysics and Space Sciences Transactions, 2011, 7, 229-234.	1.0	13
44	Multiwavelength variability and correlation studies of MrkÂ421 during historically low X-ray and \hat{I}^3 -ray activity in 2015 \hat{a} €"2016. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	13
45	Search for Large-scale Anisotropy in the Arrival Direction of Cosmic Rays with KASCADE-Grande. Astrophysical Journal, 2019, 870, 91.	1.6	12
46	Final results of the LOPES radio interferometer for cosmic-ray air showers. European Physical Journal C, 2021, 81, 1.	1.4	12
47	ADVANCED DETECTION METHODS OF RADIO SIGNALS FROM COSMIC RAYS FOR KASCADE GRANDE AND AUGER. International Journal of Modern Physics A, 2006, 21, 242-246.	0.5	11
48	VHE gamma-ray detection of FSRQ QSO B1420+326 and modeling of its enhanced broadband state in 2020. Astronomy and Astrophysics, 2021, 647, A163.	2.1	11
49	Investigating the Blazar TXS 0506+056 through Sharp Multiwavelength Eyes During 2017–2019. Astrophysical Journal, 2022, 927, 197.	1.6	11
50	A limit on the diffuse gamma-rays measured with KASCADE-Grande. Journal of Physics: Conference Series, 2015, 632, 012013.	0.3	10
51	Observation of the Gamma-Ray Binary HESS J0632+057 with the H.E.S.S., MAGIC, and VERITAS Telescopes. Astrophysical Journal, 2021, 923, 241.	1.6	10
52	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.	0.7	9
53	Time structure of the EAS electron and muon components measured by the KASCADE–Grande experiment. Astroparticle Physics, 2008, 29, 317-330.	1.9	9
54	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.	0.7	8

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55	Cosmic ray measurements with LOPES: Status and recent results. , 2013, , .		8
56	The KASCADE-Grande Experiment and the LOPES Project. Nuclear Physics, Section B, Proceedings Supplements, 2004, 136, 384-389.	0.5	7
57	Radio emission of energetic cosmic ray air showers: Polarization measurements with LOPES. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, S81-S84.	0.7	7
58	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.	0.5	7
59	The Cherenkov Telescope Array potential for the study of young supernova remnants. Astroparticle Physics, 2015, 62, 152-164.	1.9	7
60	Status of the KASCADE-Grande experiment. Nuclear Physics, Section B, Proceedings Supplements, 2008, 175-176, 273-279.	0.5	6
61	Analysis of inclined showers measured with LOPES. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, S9-S12.	0.7	6
62	The Constant Intensity Cut Method applied to the KASCADE-Grande muon data. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 183-186.	0.5	6
63	Reconstructing energy and Xmax of cosmic ray air showers using the radio lateral distribution measured with LOPES. AIP Conference Proceedings, 2013, , .	0.3	6
64	The Air-Shower Experiment KASCADE-Grande. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 80-85.	0.5	5
65	Radio emission of highly inclined cosmic ray air showers measured with LOPES - possibility for neutrino detection. Journal of Physics: Conference Series, 2006, 39, 471-474.	0.3	4
66	Investigations of Muons in EAS with KASCADE-Grande. Nuclear Physics, Section B, Proceedings Supplements, 2008, 175-176, 354-357.	0.5	4
67	Measuring the radio emission of cosmic ray air showers with LOPES. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 515-516.	0.7	4
68	Comparison of LOPES measurements with CoREAS and REAS 3.11 simulations. , 2013, , .		4
69	Studies of the cosmic ray spectrum and large scale anisotropies with the KASCADE-Grande experiment. Journal of Physics: Conference Series, 2014, 531, 012001.	0.3	4
70	Multiwavelength Observations of the Blazar VER J0521+211 during an Elevated TeV Gamma-Ray State. Astrophysical Journal, 2022, 932, 129.	1.6	4
71	Results from the KASCADE, KASCADE-Grande, and LOPES experiments. Journal of Physics: Conference Series, 2006, 39, 463-470.	0.3	3
72	Radio Emission in Atmospheric Air Showers: Results of LOPES-10. Journal of Physics: Conference Series, 2007, 81, 012005.	0.3	3

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73	Measurement of radio emission from extensive air showers with LOPES. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 630, 171-176.	0.7	3
74	All-particle energy spectrum of KASCADE-Grande based on shower size and different hadronic interaction models. Journal of Physics: Conference Series, 2013, 409, 012101.	0.3	3
75	Test of hadronic interaction models with the KASCADE-Grande muon data. EPJ Web of Conferences, 2013, 52, 07002.	0.1	3
76	LOPES â€" Recent Results and Open Questions on the Radio Detection of Air Showers. Journal of Physics: Conference Series, 2015, 632, 012102.	0.3	3
77	Summary of the main results of the KASCADE and KASCADE-Grande experiments. EPJ Web of Conferences, 2019, 208, 03002.	0.1	3
78	A FADC-based data acquisition system for the KASCADE-grande experiment. IEEE Transactions on Nuclear Science, 2006, 53, 265-269.	1.2	2
79	ABSOLUTE CALIBRATION OF THE LOPES ANTENNA SYSTEM. International Journal of Modern Physics A, 2006, 21, 187-191.	0.5	2
80	Radio detection of cosmic ray air showers with LOPES. Nuclear Physics, Section B, Proceedings Supplements, 2007, 165, 341-348.	0.5	2
81	Recent results of the LOPES experiment. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 297-300.	0.5	2
82	Latest results and perspectives of the KASCADE-Grande EAS Facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 662, S150-S156.	0.7	2
83	Radio Measurements of Air Showers with LOPES. Journal of Physics: Conference Series, 2013, 409, 012075.	0.3	2
84	Separation of the light and heavy mass groups of 1016 $\hat{a}\in$ "1018 eV cosmic rays by studying the ratio muon size to shower size of KASCADE-Grande data. Journal of Physics: Conference Series, 2013, 409, 012095.	0.3	2
85	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.	0.7	2
86	KCDC â€" The KASCADE Cosmic-ray Data Centre. Journal of Physics: Conference Series, 2015, 632, 012011.	0.3	2
87	Interferometric Radio Measurements of Air Showers with LOPES: Final Results., 2017,,.		2
88	Search for Very High-energy Emission from the Millisecond Pulsar PSR J0218+4232. Astrophysical Journal, 2021, 922, 251.	1.6	2
89	On the influence of cross sections and elasticities of hadronic interactions on air shower observables. Nuclear Physics, Section B, Proceedings Supplements, 2006, 151, 205-208.	0.5	1
90	Tests of hadronic interaction models by data of the KASCADE-Grande air-shower experiment. European Physical Journal D, 2006, 56, A241-A259.	0.4	1

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91	COMBINED LOPES AND KASCADE-GRANDE DATA ANALYSIS. International Journal of Modern Physics A, 2006, 21, 182-186.	0.5	1
92	Status of the KASCADE-Grande experiment. Nuclear Physics, Section B, Proceedings Supplements, 2007, 165, 289-293.	0.5	1
93	Detecting radio pulses from air showers. , 2008, , .		1
94	Recent Results from KASCADE-Grande and LOPES. Nuclear Physics, Section B, Proceedings Supplements, 2009, 190, 213-222.	0.5	1
95	Test of the hadronic interaction model EPOS with KASCADE air shower data. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 235-238.	0.5	1
96	Primary Energy Reconstruction from the Charged Particle Densities Recorded with the KASCADE-Grande Detector at 500 m Distance from Shower Core. , 2010, , .		1
97	Investigation of the properties of galactic cosmic rays with the KASCADE-Grande experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 630, 222-225.	0.7	1
98	Results from KASCADE–Grande. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 692, 217-223.	0.7	1
99	KASCADE-Grande observation of features in the cosmic ray spectrum between knee and ankle. Journal of Physics: Conference Series, 2013, 409, 012005.	0.3	1
100	On a coherent investigation of the spectrum of cosmic rays in the energy range of 10 ¹⁴ – 10 ¹⁸ eV with KASCADE and KASCADE-Grande. Journal of Physics: Conference Series, 2015, 632, 012025.	0.3	1
101	The longitudinal development of showers induced by high-energy hadrons in an iron-sampling calorimeter. Nuclear Physics, Section B, Proceedings Supplements, 2006, 151, 325-328.	0.5	0
102	Results and status of KASCADE-Grande. AIP Conference Proceedings, 2006, , .	0.3	0
103	The knee of cosmic rays — news from KASCADE. AIP Conference Proceedings, 2007, , .	0.3	0
104	Radio Emission in Atmospheric Air Showers: First Measurements with LOPES-30. Journal of Physics: Conference Series, 2007, 81, 012006.	0.3	0
105	Cosmic Ray Air Shower Detection with LOPES. Nuclear Physics, Section B, Proceedings Supplements, 2008, 175-176, 227-232.	0.5	0
106	The KASCADE-Grande Experiment. , 2009, , .		0
107	Investigation of the S(500) distribution for large air showers detected with the KASCADE-Grande array. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 247-250.	0.5	0
108	Muon Production Height investigated by the Air-Shower Experiment KASCADE-Grande. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 305-308.	0.5	0

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109	Hadronic interactions and EAS muon pseudorapidities investigated with the Muon Tracking Detector in KASCADE-Grande. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 114-117.	0.5	O
110	Primary Energy Spectrum as Reconstructed from S(500) Measurements by KASCADE-Grande. , 2010, , .		0
111	Restoring The Azimuthal Symmetry Of Charged Particle Lateral Density In The Range Of KASCADE-Grande. , 2010, , .		0
112	The measurement of the cosmic ray primary energy spectrum at 1016–1018 eV with the KASCADE-Grande experiment. Nuclear Physics, Section B, Proceedings Supplements, 2011, 212-213, 68-73.	0.5	0
113	Primary energy reconstruction from the charged particle densities recorded at 500 m distance from shower core with the KASCADE-Grande detector. Astrophysics and Space Sciences Transactions, 2011, 7, 191-194.	1.0	0
114	Towards an optimized design for the Cherenkov Telescope Array. , 2012, , .		0
115	LOPES-3D - vectorial measurements of radio emission from cosmic ray induced air showers. , 2013, , .		O
116	Cosmic-ray Observation via Microwave Emission (CROME). , 2013, , .		0
117	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.	0.3	O
118	KASCADE-Grande: Composition studies in the view of the post-LHC hadronic interaction models. EPJ Web of Conferences, 2017, 145, 13001.	0.1	0
119	KASCADE-Grande: Composition studies in the view of the post-LHC hadronic interaction models. EPJ Web of Conferences, 2017, 145, 13001.	0.1	O