

Federico Di Pierro

List of Publications by Year in descending order

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119
papers

3,754
citations

218592

26
h-index

128225

60
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120
all docs

120
docs citations

120
times ranked

2456
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined searches for dark matter in dwarf spheroidal galaxies observed with the MAGIC telescopes, including new data from Coma Berenices and Draco. <i>Physics of the Dark Universe</i> , 2022, 35, 100912.	1.8	21
2	Investigating the Blazar TXS 0506+056 through Sharp Multiwavelength Eyes During 2017–2019. <i>Astrophysical Journal</i> , 2022, 927, 197.	1.6	11
3	Proton acceleration in thermonuclear nova explosions revealed by gamma rays. <i>Nature Astronomy</i> , 2022, 6, 689-697.	4.2	25
4	Multiwavelength Observations of the Blazar VER J0521+211 during an Elevated TeV Gamma-Ray State. <i>Astrophysical Journal</i> , 2022, 932, 129.	1.6	4
5	Final results of the LOPES radio interferometer for cosmic-ray air showers. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	12
6	MAGIC Observations of the Nearby Short Gamma-Ray Burst GRB 160821B [*] . <i>Astrophysical Journal</i> , 2021, 908, 90.	1.6	38
7	VHE gamma-ray detection of FSRQ QSO B1420+326 and modeling of its enhanced broadband state in 2020. <i>Astronomy and Astrophysics</i> , 2021, 647, A163.	2.1	11
8	Search for Very High-energy Emission from the Millisecond Pulsar PSR J0218+4232. <i>Astrophysical Journal</i> , 2021, 922, 251.	1.6	2
9	Observation of the Gamma-Ray Binary HESS J0632+057 with the H.E.S.S., MAGIC, and VERITAS Telescopes. <i>Astrophysical Journal</i> , 2021, 923, 241.	1.6	10
10	Unraveling the Complex Behavior of Mrk 421 with Simultaneous X-Ray and VHE Observations during an Extreme Flaring Activity in 2013 April [*] . <i>Astrophysical Journal, Supplement Series</i> , 2020, 248, 29.	3.0	25
11	New Hard-TeV Extreme Blazars Detected with the MAGIC Telescopes [*] . <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 16.	3.0	39
12	Constraints on Gamma-Ray and Neutrino Emission from NGC 1068 with the MAGIC Telescopes. <i>Astrophysical Journal</i> , 2019, 883, 135.	1.6	27
13	Summary of the main results of the KASCADE and KASCADE-Grande experiments. <i>EPJ Web of Conferences</i> , 2019, 208, 03002.	0.1	3
14	Search for Large-scale Anisotropy in the Arrival Direction of Cosmic Rays with KASCADE-Grande. <i>Astrophysical Journal</i> , 2019, 870, 91.	1.6	12
15	The Blazar TXS 0506+056 Associated with a High-energy Neutrino: Insights into Extragalactic Jets and Cosmic-Ray Acceleration. <i>Astrophysical Journal Letters</i> , 2018, 863, L10.	3.0	141
16	The KASCADE Cosmic-ray Data Centre KCDC: granting open access to astroparticle physics research data. <i>European Physical Journal C</i> , 2018, 78, 1.	1.4	22
17	KASCADE-Grande Limits on the Isotropic Diffuse Gamma-Ray Flux between 100 TeV and 1 EeV. <i>Astrophysical Journal</i> , 2017, 848, 1.	1.6	57
18	Probing the evolution of the EAS muon content in the atmosphere with KASCADE-Grande. <i>Astroparticle Physics</i> , 2017, 95, 25-43.	1.9	42

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19	KASCADE-Grande: Composition studies in the view of the post-LHC hadronic interaction models. EPJ Web of Conferences, 2017, 145, 13001.	0.1	0
20	Interferometric Radio Measurements of Air Showers with LOPES: Final Results. , 2017, , .		2
21	KASCADE-Grande: Composition studies in the view of the post-LHC hadronic interaction models. EPJ Web of Conferences, 2017, 145, 13001.	0.1	0
22	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
23	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
24	KCDC " The KASCADE Cosmic-ray Data Centre. Journal of Physics: Conference Series, 2015, 632, 012011.	0.3	2
25	Very high-energy γ -ray observations of novae and dwarf novae with the MAGIC telescopes. Astronomy and Astrophysics, 2015, 582, A67.	2.1	21
26	FIRST <i>NuSTAR</i> OBSERVATIONS OF MRK 501 WITHIN A RADIO TO TeV MULTI-INSTRUMENT CAMPAIGN. Astrophysical Journal, 2015, 812, 65.	1.6	49
27	LOPES " Recent Results and Open Questions on the Radio Detection of Air Showers. Journal of Physics: Conference Series, 2015, 632, 012102.	0.3	3
28	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.	0.3	1
29	A limit on the diffuse gamma-rays measured with KASCADE-Grande. Journal of Physics: Conference Series, 2015, 632, 012013.	0.3	10
30	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
31	Lateral distributions of EAS muons ($\langle m \rangle$). Astroparticle Physics, 2015, 65, 55-63.	1.9	17
32	The Cherenkov Telescope Array potential for the study of young supernova remnants. Astroparticle Physics, 2015, 62, 152-164.	1.9	7
33	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
34	First Experimental Characterization of Microwave Emission from Cosmic Ray Air Showers. Physical Review Letters, 2014, 113, 221101.	2.9	33
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	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
40	KASCADE-Grande measurements of energy spectra for elemental groups of cosmic rays. Astroparticle Physics, 2013, 47, 54-66.	1.9	163
41	Introducing the CTA concept. Astroparticle Physics, 2013, 43, 3-18.	1.9	504
42	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
43	Monte Carlo design studies for the Cherenkov Telescope Array. Astroparticle Physics, 2013, 43, 171-188.	1.9	176
44	Cosmic ray measurements with LOPES: Status and recent results. , 2013, , .		8
45	Comparison of LOPES measurements with CoREAS and REAS 3.11 simulations. , 2013, , .		4
46	Reconstructing energy and Xmax of cosmic ray air showers using the radio lateral distribution measured with LOPES. AIP Conference Proceedings, 2013, , .	0.3	6
47	LOPES-3D - vectorial measurements of radio emission from cosmic ray induced air showers. , 2013, , .		0
48	Cosmic-ray Observation via Microwave Emission (CROME). , 2013, , .		0
49	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
50	Radio Measurements of Air Showers with LOPES. Journal of Physics: Conference Series, 2013, 409, 012075.	0.3	2
51	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
52	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.	0.3	2
53	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
54	Test of hadronic interaction models with the KASCADE-Grande muon data. EPJ Web of Conferences, 2013, 52, 07002.	0.1	3

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55	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	0
56	Towards an optimized design for the Cherenkov Telescope Array. , 2012, , .		0
57	Experimental evidence for the sensitivity of the air-shower radio signal to the longitudinal shower development. Physical Review D, 2012, 85, .	1.6	43
58	The spectrum of high-energy cosmic rays measured with KASCADE-Grande. Astroparticle Physics, 2012, 36, 183-194.	1.9	148
59	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
60	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
61	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
62	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
63	Thunderstorm observations by air-shower radio antenna arrays. Advances in Space Research, 2011, 48, 1295-1303.	1.2	17
64	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
65	Muon production height studies with the air shower experiment KASCADE-Grande. Astroparticle Physics, 2011, 34, 476-485.	1.9	27
66	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
67	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
68	The measurement of the cosmic ray primary energy spectrum at 10^{16} – 10^{18} eV with the KASCADE-Grande experiment. Nuclear Physics, Section B, Proceedings Supplements, 2011, 212-213, 68-73.	0.5	0
69	The cosmic ray energy spectrum in the range 10^{10} – 10^{18} eV measured by KASCADE-Grande. Astrophysics and Space Sciences Transactions, 2011, 7, 229-234.	1.0	13
70	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
71	Primary Energy Spectrum as Reconstructed from S(500) Measurements by KASCADE-Grande. , 2010, , .		0
72	Restoring The Azimuthal Symmetry Of Charged Particle Lateral Density In The Range Of KASCADE-Grande. , 2010, , .		0

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73	Primary Energy Reconstruction from the Charged Particle Densities Recorded with the KASCADE-Grande Detector at 500 m Distance from Shower Core. , 2010, , .		1
74	Lateral distribution of the radio signal in extensive air showers measured with LOPES. Astroparticle Physics, 2010, 32, 294-303.	1.9	72
75	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
76	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
77	The KASCADE-Grande Experiment. , 2009, , .		0
78	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
79	Muon Production Height investigated by the Air-Shower Experiment KASCADE-Grande. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 305-308.	0.5	0
80	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
81	The Air-Shower Experiment KASCADE-Grande. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 80-85.	0.5	5
82	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	0
83	Recent results of the LOPES experiment. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 297-300.	0.5	2
84	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
85	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
86	Recent Results from KASCADE-Grande and LOPES. Nuclear Physics, Section B, Proceedings Supplements, 2009, 190, 213-222.	0.5	1
87	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
88	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
89	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
90	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

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91	Status of the KASCADE-Grande experiment. Nuclear Physics, Section B, Proceedings Supplements, 2008, 175-176, 273-279.	0.5	6
92	Time structure of the EAS electron and muon components measured by the KASCADE-Grande experiment. Astroparticle Physics, 2008, 29, 317-330.	1.9	9
93	Cosmic Ray Air Shower Detection with LOPES. Nuclear Physics, Section B, Proceedings Supplements, 2008, 175-176, 227-232.	0.5	0
94	Investigations of Muons in EAS with KASCADE-Grande. Nuclear Physics, Section B, Proceedings Supplements, 2008, 175-176, 354-357.	0.5	4
95	Detecting radio pulses from air showers. , 2008, , .		1
96	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
97	Frequency spectra of cosmic ray air shower radio emission measured with LOPES. Astronomy and Astrophysics, 2008, 488, 807-817.	2.1	27
98	The knee of cosmic rays - news from KASCADE. AIP Conference Proceedings, 2007, , .	0.3	0
99	Radio emission of highly inclined cosmic ray air showers measured with LOPES. Astronomy and Astrophysics, 2007, 462, 389-395.	2.1	17
100	Radio Emission in Atmospheric Air Showers: Results of LOPES-10. Journal of Physics: Conference Series, 2007, 81, 012005.	0.3	3
101	Radio Emission in Atmospheric Air Showers: First Measurements with LOPES-30. Journal of Physics: Conference Series, 2007, 81, 012006.	0.3	0
102	Amplified radio emission from cosmic ray air showers in thunderstorms. Astronomy and Astrophysics, 2007, 467, 385-394.	2.1	43
103	Status of the KASCADE-Grande experiment. Nuclear Physics, Section B, Proceedings Supplements, 2007, 165, 289-293.	0.5	1
104	Radio detection of cosmic ray air showers with LOPES. Nuclear Physics, Section B, Proceedings Supplements, 2007, 165, 341-348.	0.5	2
105	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
106	A FADC-based data acquisition system for the KASCADE-grande experiment. IEEE Transactions on Nuclear Science, 2006, 53, 265-269.	1.2	2
107	Results from the KASCADE, KASCADE-Grande, and LOPES experiments. Journal of Physics: Conference Series, 2006, 39, 463-470.	0.3	3
108	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

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109	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
110	Progress in air shower radio measurements: Detection of distant events. Astroparticle Physics, 2006, 26, 332-340.	1.9	38
111	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
112	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
113	Results and status of KASCADE-Grande. AIP Conference Proceedings, 2006, , .	0.3	0
114	RADIO DETECTION OF COSMIC RAYS WITH LOPES. International Journal of Modern Physics A, 2006, 21, 168-181.	0.5	13
115	COMBINED LOPES AND KASCADE-GRANDE DATA ANALYSIS. International Journal of Modern Physics A, 2006, 21, 182-186.	0.5	1
116	ABSOLUTE CALIBRATION OF THE LOPES ANTENNA SYSTEM. International Journal of Modern Physics A, 2006, 21, 187-191.	0.5	2
117	Detection and imaging of atmospheric radio flashes from cosmic ray air showers. Nature, 2005, 435, 313-316.	13.7	297
118	The KASCADE-Grande Experiment and the LOPES Project. Nuclear Physics, Section B, Proceedings Supplements, 2004, 136, 384-389.	0.5	7
119	Multiwavelength variability and correlation studies of Mrk421 during historically low X-ray and γ -ray activity in 2015-2016. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	13