

Giuseppe Di Sciascio

List of Publications by Year in descending order

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119
papers

2,768
citations

126708

33
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50
g-index

121
all docs

121
docs citations

121
times ranked

1975
citing authors

#	ARTICLE	IF	CITATIONS
1	Layout and performance of RPCs used in the Argo-YBJ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 92-96.	0.7	160
2	The EAS size spectrum and the cosmic ray energy spectrum in the region 1015â€“1016 eV. Astroparticle Physics, 1999, 10, 1-9.	1.9	131
3	EVOLUTION OF THE COSMIC-RAY ANISOTROPY ABOVE 10 ¹⁴ eV. Astrophysical Journal, 2009, 692, L130-L133.	1.6	118
4	Knee of the cosmic hydrogen and helium spectrum below 1ÂPeV measured by ARGO-YBJ and a Cherenkov telescope of LHAASO. Physical Review D, 2015, 92, .	1.6	94
5	The LHAASO experiment: From Gamma-Ray Astronomy to Cosmic Rays. Nuclear and Particle Physics Proceedings, 2016, 279-281, 166-173.	0.2	88
6	The cosmic ray primary composition in the â€œkneeâ€•region through the EAS electromagnetic and muon measurements at EAS-TOP. Astroparticle Physics, 2004, 21, 583-596.	1.9	81
7	UHE cosmic ray event reconstruction by the electromagnetic detector of EAS-TOP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 336, 310-321.	0.7	78
8	IDENTIFICATION OF THE TeV GAMMA-RAY SOURCE ARGO J2031+4157 WITH THE CYGNUS COCOON. Astrophysical Journal, 2014, 790, 152.	1.6	73
9	The cosmic ray primary composition between 1015 and 1016 eV from Extensive Air Showers electromagnetic and TeV muon data. Astroparticle Physics, 2004, 20, 641-652.	1.9	71
10	STUDY OF THE DIFFUSE GAMMA-RAY EMISSION FROM THE GALACTIC PLANE WITH ARGO-YBJ. Astrophysical Journal, 2015, 806, 20.	1.6	69
11	LONG-TERM MONITORING OF THE TeV EMISSION FROM Mrk 421 WITH THE ARGO-YBJ EXPERIMENT. Astrophysical Journal, 2011, 734, 110.	1.6	67
12	TeV GAMMA-RAY SURVEY OF THE NORTHERN SKY USING THE ARGO-YBJ DETECTOR. Astrophysical Journal, 2013, 779, 27.	1.6	64
13	Observation of the cosmic ray moon shadowing effect with the ARGO-YBJ experiment. Physical Review D, 2011, 84, .	1.6	63
14	A Measurement of the Solar and Sidereal Cosmic-Ray Anisotropy at E 0 approximately 10 14 eV. Astrophysical Journal, 1996, 470, 501.	1.6	59
15	Medium scale anisotropy in the TeV cosmic ray flux observed by ARGO-YBJ. Physical Review D, 2013, 88, .	1.6	57
16	Proton-air cross section measurement with the ARGO-YBJ cosmic ray experiment. Physical Review D, 2009, 80, .	1.6	56
17	OBSERVATION OF TeV GAMMA RAYS FROM THE CYGNUS REGION WITH THE ARGO-YBJ EXPERIMENT. Astrophysical Journal Letters, 2012, 745, L22.	3.0	51
18	ARGO-YBJ OBSERVATION OF THE LARGE-SCALE COSMIC RAY ANISOTROPY DURING THE SOLAR MINIMUM BETWEEN CYCLES 23 AND 24. Astrophysical Journal, 2015, 809, 90.	1.6	51

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19	Temperature effect on RPC performance in the ARGO-YBJ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, 246-250.	0.7	49
20	Light-component spectrum of the primary cosmic rays in the multi-TeV region measured by the ARGO-YBJ experiment. Physical Review D, 2012, 85, .	1.6	49
21	LONG-TERM MONITORING OF MRK 501 FOR ITS VERY HIGH ENERGY $\hat{1}^3$ EMISSION AND A FLARE IN 2011 OCTOBER. Astrophysical Journal, 2012, 758, 2.	1.6	49
22	High altitude test of RPCs for the Argo YBJ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 443, 342-350.	0.7	47
23	The cosmic ray proton, helium and CNO fluxes in the 100 TeV energy region from TeV muons and EAS atmospheric Cherenkov light observations of MACRO and EAS-TOP. Astroparticle Physics, 2004, 21, 223-240.	1.9	47
24	GAMMA-RAY FLARES FROM Mrk421 IN 2008 OBSERVED WITH THE ARGO-YBJ DETECTOR. Astrophysical Journal Letters, 2010, 714, L208-L212.	3.0	46
25	4.5 YEARS OF MULTI-WAVELENGTH OBSERVATIONS OF MRK 421 DURING THE ARGO-YBJ AND FERMI COMMON OPERATION TIME. Astrophysical Journal, Supplement Series, 2016, 222, 6.	3.0	46
26	Software timing calibration of the ARGO-YBJ detector. Astroparticle Physics, 2009, 30, 287-292.	1.9	40
27	Scaler mode technique for the ARGO-YBJ detector. Astroparticle Physics, 2008, 30, 85-95.	1.9	39
28	OBSERVATION OF THE TeV GAMMA-RAY SOURCE MGRO J1908+06 WITH ARGO-YBJ. Astrophysical Journal, 2012, 760, 110.	1.6	38
29	Detection of thermal neutrons with the PRISMA-YBJ array in extensive air showers selected by the ARGO-YBJ experiment. Astroparticle Physics, 2016, 81, 49-60.	1.9	36
30	Results from the ARGO-YBJ test experiment. Astroparticle Physics, 2002, 17, 151-165.	1.9	35
31	Results from the analysis of data collected with a 50m2 RPC carpet at YangBajing. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 456, 121-125.	0.7	34
32	Cosmic ray proton plus helium energy spectrum measured by the ARGO-YBJ experiment in the energy range $3\hat{a}^{\wedge}300\hat{A}^{\wedge}TeV$. Physical Review D, 2015, 91, .	1.6	34
33	CRAB NEBULA: FIVE-YEAR OBSERVATION WITH ARGO-YBJ. Astrophysical Journal, 2015, 798, 119.	1.6	33
34	Measurement of the cosmic ray hadron spectrum up to 30 TeV at mountain altitude: the primary proton spectrum. Astroparticle Physics, 2003, 19, 329-338.	1.9	32
35	Energy spectrum of cosmic protons and helium nuclei by a hybrid measurement at 4300 m a.s.l.. Chinese Physics C, 2014, 38, 045001.	1.5	31
36	SEARCH FOR GAMMA RAY BURSTS WITH THE ARGO-YBJ DETECTOR IN SCALER MODE. Astrophysical Journal, 2009, 699, 1281-1287.	1.6	29

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37	Results on candidate UHE gamma-ray sources by the EAS-TOP array (1989–1993). <i>Astroparticle Physics</i> , 1995, 3, 1-15.	1.9	27
38	OBSERVATION OF TeV GAMMA RAYS FROM THE UNIDENTIFIED SOURCE HESS J1841–055 WITH THE ARGO-YBJ EXPERIMENT. <i>Astrophysical Journal</i> , 2013, 767, 99.	1.6	25
39	The analog Resistive Plate Chamber detector of the ARGO-YBJ experiment. <i>Astroparticle Physics</i> , 2015, 67, 47-61.	1.9	25
40	Measurement of the proton-air inelastic cross section at \sqrt{s} up to 10.5 TeV with the EAS-TOP experiment. <i>Physical Review D</i> , 2009, 79, .	1.6	23
41	MEAN INTERPLANETARY MAGNETIC FIELD MEASUREMENT USING THE ARGO-YBJ EXPERIMENT. <i>Astrophysical Journal</i> , 2011, 729, 113.	1.6	23
42	Measurement of the cosmic ray antiproton/proton flux ratio at TeV energies with the ARGO-YBJ detector. <i>Physical Review D</i> , 2012, 85, .	1.6	22
43	Galactic Cosmic-Ray Anisotropy in the Northern Hemisphere from the ARGO-YBJ Experiment during 2008–2012. <i>Astrophysical Journal</i> , 2018, 861, 93.	1.6	22
44	The limit to the UHE extraterrestrial neutrino flux from the observations of horizontal air showers at EAS-TOP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 333, 555-560.	1.5	21
45	Highlights from the ARGO-YBJ experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 661, S50-S55.	0.7	20
46	Ground-based Gamma-Ray Astronomy: an Introduction. <i>Journal of Physics: Conference Series</i> , 2019, 1263, 012003.	0.3	20
47	Can gamma-ray bursts constrain quintessence?. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 008-008.	1.9	17
48	ARGO-YBJ constraints on very high energy emission from GRBs. <i>Astroparticle Physics</i> , 2009, 32, 47-52.	1.9	17
49	Calibration of the RPC charge readout in the ARGO-YBJ experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 661, S56-S59.	0.7	17
50	The Measurement of the Anomalous Magnetic Moment of the Muon at Fermilab. <i>Journal of Physical and Chemical Reference Data</i> , 2015, 44, .	1.9	17
51	The use of RPC in the ARGO-YBJ project. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1999, 78, 38-43.	0.5	15
52	Electron beam test of key elements of the laser-based calibration system for the muon g - 2 experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 842, 86-91.	0.7	14
53	Observation of the thunderstorm-related ground cosmic ray flux variations by ARGO-YBJ. <i>Physical Review D</i> , 2018, 97, .	1.6	14
54	The hadron calorimeter of EAS-TOP: operation, calibration and resolution. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 420, 117-131.	0.7	13

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55	Search for Gamma-Ray Bursts at Photon Energies $E \geq 10$ GeV and $E \geq 80$ TeV. <i>Astrophysical Journal</i> , 1996, 469, 305.	1.6	13
56	The high energy muon spectrum in Extensive Air Showers: first data from LVD and EAS-TOP at Gran Sasso. <i>Astroparticle Physics</i> , 1998, 9, 185-192.	1.9	12
57	Test of candidate light absorbers for the muon calorimeter in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 788, 43-48.	0.7	12
58	Search for Gamma-Ray Bursts with the ARGO-YBJ Detector in Shower Mode. <i>Astrophysical Journal</i> , 2017, 842, 31.	1.6	12
59	Performance of the RPCs for the ARGO detector operated at the YangBajing laboratory (4300m a.s.l.). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 508, 110-115.	0.7	11
60	SEARCH FOR GeV GAMMA-RAY BURSTS WITH THE ARGO-YBJ DETECTOR: SUMMARY OF EIGHT YEARS OF OBSERVATIONS. <i>Astrophysical Journal</i> , 2014, 794, 82.	1.6	11
61	Monte Carlo simulation of photon-induced air showers. <i>Astroparticle Physics</i> , 1994, 2, 199-214.	1.9	10
62	TIME-AVERAGE-BASED METHODS FOR MULTI-ANGULAR SCALE ANALYSIS OF COSMIC-RAY DATA. <i>Astrophysical Journal</i> , 2013, 766, 96.	1.6	10
63	Main physics results of the ARGO-YBJ experiment. <i>International Journal of Modern Physics D</i> , 2014, 23, 1430019.	0.9	10
64	The EAS-TOP atmospheric Čerenkov-light telescope and its combined operation with the e.m. Detector. <i>Il Nuovo Cimento Della Società Italiana Di Fisica C</i> , 1993, 16, 813-824.	0.2	9
65	The proton attenuation length and the p-air inelastic cross section at $\sqrt{s} = 2$ TeV from EAS-TOP. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1999, 75, 222-224.	0.5	9
66	Cosmic-ray anisotropies observed by the ARGO-YBJ experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 692, 160-164.	0.7	9
67	A comparative study of the electron and photon components in photon-induced air showers. <i>Astroparticle Physics</i> , 1997, 6, 313-322.	1.9	8
68	The Status of the ARGO Experiment at YBJ. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007, 166, 96-102.	0.5	8
69	Observation of CR Anisotropy with ARGO-YBJ. <i>Journal of Physics: Conference Series</i> , 2012, 375, 052008.	0.3	7
70	The calibration system of the new γ^2 experiment at Fermilab. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 824, 716-717.	0.7	7
71	EAS age determination from the study of the lateral distribution of charged particles near the shower axis with the ARGO-YBJ experiment. <i>Astroparticle Physics</i> , 2017, 93, 46-55.	1.9	7
72	The laser control of the muon γ^2 experiment at Fermilab. <i>Journal of Instrumentation</i> , 2018, 13, T02009-T02009.	0.5	7

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73	Large-P T physics with cosmic-ray events. Il Nuovo Cimento Della Societ� Italiana Di Fisica C, 1995, 18, 663-670.	0.2	6
74	Simulation of the cosmic ray Moon shadow in the geomagnetic field. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 630, 301-305.	0.7	6
75	A needlet-based approach to the shower-mode data analysis in the ARGO-YBJ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 692, 170-173.	0.7	6
76	Search for high energy GRBs with EASTOP. Astronomy and Astrophysics, 1999, 138, 595-596.	2.1	6
77	Study of the cosmic ray primary spectrum at $1015 < E_0 < 1016$ eV with the EAS-TOP array. Nuclear Physics, Section B, Proceedings Supplements, 2000, 85, 318-323.	0.5	5
78	GRBs search results with the ARGO-YBJ experiment operated in scaler mode. Astrophysics and Space Science, 2007, 309, 537-540.	0.5	5
79	Study of jet production in $p\bar{p}$ interactions at GeV in EAS multicore events. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 460, 474-483.	1.5	4
80	Results from the ARGO-YBJ test experiment. Nuclear Physics, Section B, Proceedings Supplements, 2000, 85, 338-345.	0.5	4
81	Measurement of the antiproton/proton ratio at TeV energies with the ARGO-YBJ detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 630, 63-66.	0.7	4
82	Evidence of a geomagnetic effect on extensive air showers detected with the ARGO-YBJ experiment. Physical Review D, 2014, 89, .	1.6	4
83	Calibration of the RPC charge readout in the ARGO-YBJ experiment with the iso-gradient method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 783, 68-75.	0.7	4
84	The ARGO-YBJ detector and high energy GRBs. Astronomy and Astrophysics, 1999, 138, 597-598.	2.1	4
85	Studies of the knee in the electron and muon components of extensive air showers at EAS-TOP. Nuclear Physics, Section B, Proceedings Supplements, 1999, 75, 251-255.	0.5	3
86	Search for $E_{\gamma} \approx 1013$ eV γ -ray transients through the BAKSAN and EAS-TOP correlated data. Astroparticle Physics, 2000, 14, 189-200.	1.9	3
87	Sensitivity of ARGO-YBJ to different composition models in the energy range $10 \text{ \AA} \cdot 500$ TeV. Nuclear Physics, Section B, Proceedings Supplements, 2004, 136, 376-383.	0.5	3
88	Monte Carlo simulation of photon-induced air showers. Astroparticle physics 2 (1994) 199. Astroparticle Physics, 1994, 2, 327.	1.9	2
89	SELECTION OF THE PRIMARY COSMIC RAY LIGHT COMPONENT WITH ARGO-YBJ. International Journal of Modern Physics A, 2005, 20, 6805-6807.	0.5	2
90	Latest results from the ARGO-YBJ experiment. Journal of Physics: Conference Series, 2015, 632, 012089.	0.3	2

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91	The calorimeter system of the new muon g-2 experiment at Fermilab. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 718-720.	0.7	2
92	Absolute-energy-scale calibration of ARGO-YBJ for light primaries in multi-TeV region with the Moon shadow observation. Astroparticle Physics, 2017, 90, 20-27.	1.9	2
93	The Fermilab Muon g-2 experiment: laser calibration system. Journal of Instrumentation, 2017, 12, C08019-C08019.	0.5	2
94	Detection of Cosmic Rays from ground: an Introduction. Journal of Physics: Conference Series, 2019, 1263, 012002.	0.3	2
95	Measurement of Energy Spectrum and Elemental Composition of PeV Cosmic Rays: Open Problems and Prospects. Applied Sciences (Switzerland), 2022, 12, 705.	1.3	2
96	Detection of small size showers by means of an RPC's carpet. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 344, 250-254.	0.7	1
97	Study of RPC gas mixtures for the ARGO-YBJ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 456, 35-39.	0.7	1
98	First results on the angular resolution of the ARGO-YBJ detector. Journal of Physics: Conference Series, 2006, 39, 487-487.	0.3	1
99	Early warning for VHE gamma-ray flares with the ARGO-YBJ detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 428-433.	0.7	1
100	Measurement of the ratio in the few-TeV energy range with ARGO-YBJ. Nuclear Physics, Section B, Proceedings Supplements, 2011, 212-213, 301-306.	0.5	1
101	Radon contribution to single particle counts of the ARGO-YBJ detector. Radiation Measurements, 2014, 68, 42-48.	0.7	1
102	Detection of EASs at high altitude with ARGO-YBJ. Journal of Physics: Conference Series, 2017, 866, 012017.	0.3	1
103	Experimental EAS data relevant to underground physics: the EAS size spectrum and the rate of HAS as a limit to the astrophysical $\hat{\Gamma}_{1/2}$ -flux. Nuclear Physics, Section B, Proceedings Supplements, 1994, 35, 254-256.	0.5	0
104	Search for Gamma Ray Bursts of energy $E_{\gamma} \approx 10$ GeV and $E_{\gamma} \approx 100$ TeV in correlation with BATSE events. Astrophysics and Space Science, 1995, 231, 351-354.	0.5	0
105	Performance of large-size streamer tubes operated with argon-ethane mixture. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 404, 51-56.	0.7	0
106	The cosmic ray anisotropy at $E_0 > 100$ TeV. Advances in Space Research, 1999, 23, 603-606.	1.2	0
107	Study of the c.r. composition and interaction at $E_0 = 10 \hat{=} 100$ TeV from the observation of H.E. muons and atmospheric Cherenkov light in EAS. Nuclear Physics, Section B, Proceedings Supplements, 1999, 75, 259-261.	0.5	0
108	Coupling of mirror tilts with earth gravitational field in long-baseline interferometric gravitational-wave detectors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 268, 235-240.	0.9	0

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109	Gamma-ray astronomy with a large muon detector in the ARGO-YBJ experiment. AIP Conference Proceedings, 2005, , .	0.3	0
110	Testing quintessence models with GRBs. Journal of Physics: Conference Series, 2006, 39, 486-486.	0.3	0
111	EAS-TOP: The proton-air inelastic cross-section at. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 329-334.	0.5	0
112	Observation of Horizontal Air Showers with ARGO-YBJ. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 692, 269-271.	0.7	0
113	Measurement of the cosmic rays light component (p+He) primary spectrum with ARGO-YBJ. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 692, 155-159.	0.7	0
114	Measurement of the Cosmic Ray primary spectrum with ARGO-YBJ experiment. Journal of Physics: Conference Series, 2013, 409, 012031.	0.3	0
115	Future Extensive Air Shower arrays: From Gamma-Ray Astronomy to Cosmic Rays. EPJ Web of Conferences, 2016, 121, 04005.	0.1	0
116	Recent highlights from ARGO-YBJ. Journal of Physics: Conference Series, 2016, 718, 052009.	0.3	0
117	ARGO-YBJ: STATUS AND HIGHLIGHTS. Acta Polytechnica, 2013, 53, 646-651.	0.3	0
118	ARGO-YBJ: Highlights and Prospects. Acta Polytechnica CTU Proceedings, 2014, 1, 151-156.	0.3	0
119	The ARGO-YBJ legacy to next generation wide field-of-view experiments. EPJ Web of Conferences, 2017, 145, 05003.	0.1	0