Francesco Cafagna

List of Publications by Year
in descending order

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330 papers	13,709 citations	23500 58 h-index	23472 111 g-index

334 all docs	334 docs citations	334 times ranked	9813 citing authors

#	Article	IF	Citations
1	An anomalous positron abundance in cosmic rays with energies 1.5â€“100â€‰GeV. Nature, 2009, 458, 607-609.	13.7	1,794
2	PAMELA Measurements of Cosmic-Ray Proton and Helium Spectra. Science, 2011, 332, 69-72.	6.0	686
3	PAMELA Results on the Cosmic-Ray Antiproton Flux from 60ÂMeV to 180ÂGeV in Kinetic Energy. Physical Review Letters, 2010, 105, 121101.	2.9	444
4	New Measurement of the Antiproton-to-Proton Flux Ratio up to 100 GeV in the Cosmic Radiation. Physical Review Letters, 2009, 102, 051101.	2.9	434
5	PAMELA â€“ A payload for antimatter matter exploration and light-nuclei astrophysics. Astroparticle Physics, 2007, 27, 296-315.	1.9	362
6	Measurement of the atmospheric neutrino-induced upgoing muon flux using MACRO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 451-457.	1.5	315
7	Cosmic-Ray Electron Flux Measured by the PAMELA Experiment between 1 and 625ÂGeV. Physical Review Letters, 2011, 106, 201101.	2.9	281
8	Cosmic-Ray Positron Energy Spectrum Measured by PAMELA. Physical Review Letters, 2013, 111, 081102.	2.9	243
9	First measurement of the total proton-proton cross-section at the LHC energy of chem{sqrt{s} = 7,TeV}. Europhysics Letters, 2011, 96, 21002.	0.7	236
10	TIME DEPENDENCE OF THE PROTON FLUX MEASURED BY PAMELA DURING THE 2006 JULY-2009 DECEMBER SOLAR MINIMUM. Astrophysical Journal, 2013, 765, 91.	1.6	223
11	The Cosmicâ€Ray Electron and Positron Spectra Measured at 1 AU during Solar Minimum Activity. Astrophysical Journal, 2000, 532, 653-669.	1.6	213
12	Measurement of proton-proton elastic scattering and total cross-section at chem{sqrt {s} = 7,TeV}. Europhysics Letters, 2013, 101, 21002.	0.7	197
13	Luminosity-Independent Measurement of the Proton-Proton Total 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>=</mml:mo><mml:mn>8</mml:mn><mml:mtext>â€‰<m Physical Review Letters, 2013, 111, 012001.	2.9	187
14	The Cosmicâ€Ray Proton and Helium Spectra between 0.4 and 200 GV. Astrophysical Journal, 1999, 518, 457-472.	1.6	179
15	Luminosity-independent measurements of total, elastic and inelastic cross-sections at chem{sqrt {s} = 7,TeV}. Europhysics Letters, 2013, 101, 21004.	0.7	176
16	A statistical procedure for the identification of positrons in the PAMELA experiment. Astroparticle Physics, 2010, 34, 1-11.	1.9	168
17	The Cosmicâ€Ray Antiproton Flux between 3 and 49 GeV. Astrophysical Journal, 2001, 561, 787-799.	1.6	165
18	The ANTARES optical module. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 484, 369-383.	0.7	161

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19	Final results of magnetic monopole searches with the MACRO experiment. European Physical Journal C, 2002, 25, 511-522.	1.4	158
20	Physics potential of a long-baseline neutrino oscillation experiment using a J-PARC neutrino beam and Hyper-Kamiokande. Progress of Theoretical and Experimental Physics, 2015, 2015, 53C02-0.	1.8	157
21	Matter effects in upward-going muons and sterile neutrino oscillations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 59-66.	1.5	151
22	Proton-proton elastic scattering at the LHC energy of chem{sqrt{s} = 7,TeV}. Europhysics Letters, 2011, 95, 41001.	0.7	150
23	Vertical muon intensity measured with MACRO at the Gran Sasso laboratory. Physical Review D, 1995, 52, 3793-3802.	1.6	149
24	The PAMELA Mission: Heralding a new era in precision cosmic ray physics. Physics Reports, 2014, 544, 323-370.	10.3	147
25	The data acquisition system for the ANTARES neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 570, 107-116.	0.7	138
26	First supermodule of the MACRO detector at Gran Sasso. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 324, 337-362.	0.7	137
27	MEASUREMENT OF BORON AND CARBON FLUXES IN COSMIC RAYS WITH THE PAMELA EXPERIMENT. Astrophysical Journal, 2014, 791, 93.	1.6	127
28	The Cosmicâ€Ray Antiproton Flux between 0.62 and 3.19 GeV Measured Near Solar Minimum Activity. Astrophysical Journal, 1997, 487, 415-423.	1.6	126
29	Measurements of Ground-Level Muons at Two Geomagnetic Locations. Physical Review Letters, 1999, 83, 4241-4244.	2.9	112
30	The cosmic-ray proton and helium spectra measured with the CAPRICE98 balloon experiment. Astroparticle Physics, 2003, 19, 583-604.	1.9	112
31	Evidence for non-exponential elastic protonâ€ proton differential cross-section at low |t| and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:mi>s</mml:mi></mml:msqrt><mml:mo>=</mml:mo><mml:mn>8</mml:mn><mml:mspace width="0.25em" /><mml:mtext>TeV</mml:mtext></mml:math> by TOTEM. Nuclear Physics B, 2015, 899, 527-546.	0.9	111
32	The TOTEM Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08007-S08007.	0.5	108
33	Seasonal variations in the underground muon intensity as seen by MACRO. Astroparticle Physics, 1997, 7, 109-124.	1.9	107
34	Measurement of the flux of primary cosmic ray antiprotons with energies of 60 MeV to 350 GeV in the PAMELA experiment. JETP Letters, 2013, 96, 621-627.	0.4	105
35	Measurements of the absolute energy spectra of cosmic-ray positrons and electrons above 7ÂGeV. Astronomy and Astrophysics, 2002, 392, 287-294.	2.1	104
36	An evaluation of the exposure in nadir observation of the JEM-EUSO mission. Astroparticle Physics, 2013, 44, 76-90.	1.9	102

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37	Transmission of light in deep sea water at the site of the Antares neutrino telescope. Astroparticle Physics, 2005, 23, 131-155.	1.9	101
38	Measurements of atmospheric muon neutrino oscillations, global analysis of the data collected with MACRO detector. European Physical Journal C, 2004, 36, 323-339.	1.4	100
39	First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. Astroparticle Physics, 2006, 26, 314-324.	1.9	99
40	Atmospheric neutrino oscillations from upward throughgoing muon multiple scattering in MACRO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 566, 35-44.	1.5	97
41	Measurement of elastic pp scattering at $$sqrt{hbox {s}} = hbox {8}$$ s = 8 ÂTeV in the Coulombâ€“nuclear interference region: determination of the $$mathbf {ho }$$ Ï•-parameter and the total cross-section. European Physical Journal C, 2016, 76, 1.	1.4	88
42	Atmospheric neutrino flux measurement using upgoing muons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 481-486.	1.5	83
43	OBSERVATIONS OF THE 2006 DECEMBER 13 AND 14 SOLAR PARTICLE EVENTS IN THE 80 MeV n^{â€“1}-3 GeV n^{â€“1}RANGE FROM SPACE WITH THE PAMELA DETECTOR. Astrophysical Journal, 2011, 742, 102.	1.6	83
44	Physics potentials with the second Hyper-Kamiokande detector in Korea. Progress of Theoretical and Experimental Physics, 2018, 2018, .	1.8	77
45	Limits on dark matter WIMPs using upward-going muons in the MACRO detector. Physical Review D, 1999, 60, .	1.6	74
46	Low energy atmospheric muon neutrinos in MACRO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 478, 5-13.	1.5	73
47	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
48	Study of large hemispherical photomultiplier tubes for the ANTARES neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 555, 132-141.	0.7	71
49	Measurement of proton-proton inelastic scattering cross-section at chem{sqrt {s} = 7,{mathrm {TeV}}}. Europhysics Letters, 2013, 101, 21003.	0.7	70
50	First measurement of elastic, inelastic and total cross-section at $$sqrt{s}=13$$ s = 13 ÂTeV by TOTEM and overview of cross-section data at LHC energies. European Physical Journal C, 2019, 79, 1.	1.4	70
51	Balloon measurements of cosmic ray muon spectra in the atmosphere along with those of primary protons and helium nuclei over midlatitude. Physical Review D, 1999, 60, .	1.6	69
52	Neutrino Astronomy with the MACRO Detector. Astrophysical Journal, 2001, 546, 1038-1054.	1.6	65
53	Proton Fluxes Measured by the PAMELA Experiment from the Minimum to the Maximum Solar Activity for Solar Cycle 24. Astrophysical Journal Letters, 2018, 854, L2.	3.0	65
54	Solar Energetic Particle Events Observed by the PAMELA Mission. Astrophysical Journal, 2018, 862, 97.	1.6	63

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55	Deep seawater inherent optical properties in the Southern Ionian Sea. Astroparticle Physics, 2007, 27, 1-9.	1.9	62
56	Absolute spectrum and charge ratio of cosmic ray muons in the energy region from 0.2 GeV to 100 GeV at 600 m above sea level. Journal of Geophysical Research, 1993, 98, 3501-3507.	3.3	61
57	The ANTARES optical beacon system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 498-509.	0.7	61
58	The MACRO detector at Gran Sasso. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 663-707.	0.7	60
59	TIME DEPENDENCE OF THEe^{â€“}FLUX MEASURED BYPAMELADURING THE 2006 JULYâ€“2009 DECEMBER SOLAR MINIMUM. Astrophysical Journal, 2015, 810, 142.	1.6	60
60	Time Dependence of the Electron and Positron Components of the Cosmic Radiation Measured by the PAMELA Experiment between July 2006 and December 2015. Physical Review Letters, 2016, 116, 241105.	2.9	54
61	Search for the sidereal and solar diurnal modulations in the total MACRO muon data set. Physical Review D, 2003, 67, .	1.6	52
62	Sedimentation and fouling of optical surfaces at the ANTARES site. Astroparticle Physics, 2003, 19, 253-267.	1.9	51
63	Latitudinal and radial gradients of galactic cosmic ray protons in the inner heliosphere â€“ PAMELA and Ulysses observations. Astrophysics and Space Sciences Transactions, 2011, 7, 425-434.	1.0	50
64	Measurement of pseudorapidity distributions of charged particles in protonâ€“proton collisions at $$sqrt{s} = 8$$ s = 8 ÂTeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	1.4	49
65	MEASUREMENTS OF COSMIC-RAY HYDROGEN AND HELIUM ISOTOPES WITH THE PAMELA EXPERIMENT. Astrophysical Journal, 2016, 818, 68.	1.6	49
66	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
67	The PAMELA space experiment. Advances in Space Research, 2013, 51, 209-218.	1.2	45
68	The JEM-EUSO instrument. Experimental Astronomy, 2015, 40, 19-44.	1.6	45
69	Study of penetrating cosmic ray muons and search for large scale anisotropies at the Gran Sasso Laboratory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 249, 149-156.	1.5	44
70	Measurements of cosmic-ray electrons and positrons by the Wizard/CAPRICE collaboration. Advances in Space Research, 2001, 27, 669-674.	1.2	43
71	In-flight performances of the PAMELA satellite experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 588, 259-266.	0.7	41
72	The mass-hierarchy and CP-violation discovery reach of the LBNO long-baseline neutrino experiment. Journal of High Energy Physics, 2014, 2014, 1.	1.6	41

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73	THE DISCOVERY OF GEOMAGNETICALLY TRAPPED COSMIC-RAY ANTIPROTONS. Astrophysical Journal Letters, 2011, 737, L29.	3.0	40
74	MEASUREMENT OF THE ISOTOPIC COMPOSITION OF HYDROGEN AND HELIUM NUCLEI IN COSMIC RAYS WITH THE PAMELA EXPERIMENT. Astrophysical Journal, 2013, 770, 2.	1.6	39
75	The JEM-EUSO mission: An introduction. Experimental Astronomy, 2015, 40, 3-17.	1.6	38
76	Study of the ultrahigh-energy primary-cosmic-ray composition with the MACRO experiment. Physical Review D, 1992, 46, 895-902.	1.6	37
77	Supernova Model Discrimination with Hyper-Kamiokande. Astrophysical Journal, 2021, 916, 15.	1.6	37
78	The observation of up-going charged particles produced by high energy muons in underground detectors. Astroparticle Physics, 1998, 9, 105-117.	1.9	36
79	Launch of the space experiment PAMELA. Advances in Space Research, 2008, 42, 455-466.	1.2	36
80	Measurements of cosmic-ray proton and helium spectra with the PAMELA calorimeter. Advances in Space Research, 2013, 51, 219-226.	1.2	36
81	Search for diffuse neutrino flux from astrophysical sources with MACRO. Astroparticle Physics, 2003, 19, 1-13.	1.9	35
82	Status of NEMO. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 567, 444-451.	0.7	35
83	Study of the primary cosmic ray composition around the knee of the energy spectrum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 337, 376-382.	1.5	34
84	Measurement of the forward charged-particle pseudorapidity density in pp collisions at âˆšs = 7 TeV with the TOTEM experiment. Europhysics Letters, 2012, 98, 31002.	0.7	34
85	Double Diffractive Cross-Section Measurement in the Forward Region at the LHC. Physical Review Letters, 2013, 111, 262001.	2.9	34
86	Search for nuclearites using the MACRO detector. Physical Review Letters, 1992, 69, 1860-1863.	2.9	32
87	Measurement of the residual energy of muons in the Gran Sasso underground laboratories. Astroparticle Physics, 2003, 19, 313-328.	1.9	32
88	The Pamela experiment ready for flight. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 572, 471-473.	0.7	32
89	Mini-EUSO Mission to Study Earth UV Emissions on board the ISS. Astrophysical Journal, Supplement Series, 2021, 253, 36.	3.0	32
90	The PAMELA experiment on satellite and its capability in cosmic rays measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 478, 114-118.	0.7	31

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91	PAMELA and indirect dark matter searches. New Journal of Physics, 2009, 11, 105023.	1.2	31
92	The EUSO-Balloon pathfinder. Experimental Astronomy, 2015, 40, 281-299.	1.6	31
93	New Measurement of the Flux of Atmospheric Muons. Physical Review Letters, 1999, 82, 4757-4760.	2.9	30
94	First Mass-resolved Measurement of High-Energy Cosmic-Ray Antiprotons. Astrophysical Journal, 2000, 534, L177-L180.	1.6	30
95	The PAMELA experiment in space. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 262-268.	0.7	30
96	Measurement of the decoherence function with the MACRO detector at Gran Sasso. Physical Review D, 1992, 46, 4836-4845.	1.6	29
97	Search for slowly moving magnetic monopoles with the MACRO detector. Physical Review Letters, 1994, 72, 608-612.	2.9	29
98	Moon and Sun shadowing effect in the MACRO detector. Astroparticle Physics, 2003, 20, 145-156.	1.9	29
99	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1.	1.6	29
100	Experiment NINA: investigation of low energy nuclear fluxes in the near-Earth space. Astroparticle Physics, 1997, 8, 109-121.	1.9	28
101	Search for nucleon decays induced by GUT magnetic monopoles with the MACRO experiment. European Physical Journal C, 2002, 26, 163-172.	1.4	28
102	Muon astronomy with the MACRO detector. Astrophysical Journal, 1993, 412, 301.	1.6	28
103	Measurement of the negative muon spectrum between 0.3 and 40 GeV/cin the atmosphere. Physical Review D, 1996, 53, 35-43.	1.6	27
104	Magnetic monopole search with the MACRO detector at Gran Sasso. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 406, 249-255.	1.5	27
105	Measurement of the energy spectrum of underground muons at Gran Sasso with a transition radiation detector. Astroparticle Physics, 1999, 10, 11-20.	1.9	27
106	Energy spectra of atmospheric muons measured with the CAPRICE98 balloon experiment. Physical Review D, 2003, 67, .	1.6	27
107	TRAPPED PROTON FLUXES AT LOW EARTH ORBITS MEASURED BY THE PAMELA EXPERIMENT. Astrophysical Journal Letters, 2015, 799, L4.	3.0	27
108	JEM-EUSO: Meteor and nuclearite observations. Experimental Astronomy, 2015, 40, 253-279.	1.6	27

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109	PAMELAâ€™S MEASUREMENTS OF MAGNETOSPHERIC EFFECTS ON HIGH-ENERGY SOLAR PARTICLES. Astrophysical Journal Letters, 2015, 801, L3.	3.0	27
110	Evidence of Energy and Charge Sign Dependence of the Recovery Time for the 2006 December Forbush Event Measured by the PAMELA Experiment. Astrophysical Journal, 2018, 853, 76.	1.6	27
111	EUSO-TA â€“ First results from a ground-based EUSO telescope. Astroparticle Physics, 2018, 102, 98-111.	1.9	27
112	Performance of the MACRO streamer tube system in the search for magnetic monopoles. Astroparticle Physics, 1995, 4, 33-43.	1.9	26
113	High energy cosmic ray physics with underground muons in MACRO. II. Primary spectra and composition. Physical Review D, 1997, 56, 1418-1436.	1.6	26
114	The JEM-EUSO mission. Advances in Space Research, 2014, 53, 1499-1505.	1.2	26
115	Inâ€Orbit Performance of the Space Telescope NINA and Galactic Cosmicâ€Ray Flux Measurements. Astrophysical Journal, Supplement Series, 2001, 132, 365-375.	3.0	26
116	Search for neutrino bursts from collapsing stars with the MACRO detector. Astroparticle Physics, 1992, 1, 11-25.	1.9	25
117	Improvements in the CR39 polymer for the macro experiment at the Gran Sasso Laboratory. International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements, 1991, 19, 641-646.	0.6	22
118	High statistics measurement of the underground muon pair separation at Gran Sasso. Physical Review D, 1999, 60, .	1.6	21
119	Highâ€Energy Deuteron Measurement with the CAPRICE98 Experiment. Astrophysical Journal, 2004, 615, 259-274.	1.6	21
120	Elastic Scattering and Total Cross-Section in p+p Reactions. Progress of Theoretical Physics Supplement, 2012, 193, 180-183.	0.2	21
121	PAMELA's measurements of geomagnetic cutoff variations during the 14 December 2006 storm. Space Weather, 2016, 14, 210-220.	1.3	21
122	Time Dependence of the Flux of Helium Nuclei in Cosmic Rays Measured by the PAMELA Experiment between 2006 July and 2009 December. Astrophysical Journal, 2020, 893, 145.	1.6	21
123	Sensitivity of an underwater ÄŒerenkov km3 telescope to TeV neutrinos from Galactic microquasars. Astroparticle Physics, 2007, 28, 1-9.	1.9	20
124	PERFORMANCE OF THE TOTEM DETECTORS AT THE LHC. International Journal of Modern Physics A, 2013, 28, 1330046.	0.5	20
125	Reentrant albedo proton fluxes measured by the PAMELA experiment. Journal of Geophysical Research: Space Physics, 2015, 120, 3728-3738.	0.8	20
126	Diamond detectors for the TOTEM timing upgrade. Journal of Instrumentation, 2017, 12, P03007-P03007.	0.5	20

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127	Simultaneous observation of extensive air showers and deep-underground muons at the Gran Sasso Laboratory. Physical Review D, 1990, 42, 1396-1403.	1.6	19
128	Performance of the CAPRICE RICH detector during the 1994 balloon flight. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 371, 169-173.	0.7	19
129	Isotope composition of secondary hydrogen and helium above the atmosphere measured by the instruments NINA and NINA-2. Journal of Geophysical Research, 2003, 108, .	3.3	19
130	The Space Experiment PAMELA. Nuclear Physics, Section B, Proceedings Supplements, 2004, 134, 39-46.	0.5	19
131	CAPRICE98: A balloon borne magnetic spectrometer to study cosmic ray antimatter and composition at different atmospheric depths. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 32-37.	0.5	18
132	The space telescope NINA: results of a beam test calibration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 424, 414-424.	0.7	18
133	Muon energy estimate through multiple scattering with the MACRO detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 492, 376-386.	0.7	18
134	Performance and air-shower reconstruction techniques for the JEM-EUSO mission. Advances in Space Research, 2014, 53, 1515-1535.	1.2	18
135	Force-field parameterization of the galactic cosmic ray spectrum: Validation for Forbush decreases. Advances in Space Research, 2015, 55, 2940-2945.	1.2	18
136	High energy cosmic ray physics with underground muons in MACRO. I. Analysis methods and experimental results. Physical Review D, 1997, 56, 1407-1417.	1.6	17
137	Real time supernova neutrino burst detection with MACRO. Astroparticle Physics, 1998, 8, 123-133.	1.9	17
138	Search for lightly ionizing particles with the MACRO detector. Physical Review D, 2000, 62, .	1.6	17
139	Measurements of quasiâ€trapped electron and positron fluxes with PAMELA. Journal of Geophysical Research, 2009, 114, .	3.3	17
140	Upper limit on the antihelium flux in primary cosmic rays. JETP Letters, 2011, 93, 628-631.	0.4	17
141	Cosmic ray oriented performance studies for the JEM-EUSO first level trigger. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 866, 150-163.	0.7	17
142	Meteor studies in the framework of the JEM-EUSO program. Planetary and Space Science, 2017, 143, 245-255.	0.9	17
143	A transition radiation detector for positron identification in a balloon-borne particle astrophysics experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 357, 588-600.	0.7	16
144	Ground-based tests of JEM-EUSO components at the Telescope Array site, â€œEUSO-TAâ€• Experimental Astronomy, 2015, 40, 301-314.	1.6	16

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145	JEM-EUSO observational technique and exposure. Experimental Astronomy, 2015, 40, 117-134.	1.6	16
146	First observations of speed of light tracks by a fluorescence detector looking down on the atmosphere. Journal of Instrumentation, 2018, 13, P05023-P05023.	0.5	15
147	Arrival time distributions of very high energy cosmic ray muons in MACRO. Nuclear Physics B, 1992, 370, 432-444.	0.9	14
148	Observation of the shadowing of cosmic rays by the Moon using a deep underground detector. Physical Review D, 1998, 59, .	1.6	14
149	NEMO: Status of the Project. Nuclear Physics, Section B, Proceedings Supplements, 2004, 136, 61-68.	0.5	14
150	New Upper Limit on Strange Quark Matter Abundance in Cosmic Rays with the PAMELA Space Experiment. Physical Review Letters, 2015, 115, 111101.	2.9	14
151	Lithium and Beryllium Isotopes with the PAMELAÂExperiment. Astrophysical Journal, 2018, 862, 141.	1.6	14
152	A high rejection transition radiation detector prototype to distinguish positrons from protons in a cosmic ray space laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 313, 295-302.	0.7	13
153	A large area transition radiation detector to measure the energy of muons in the Gran Sasso underground laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 365, 214-223.	0.7	13
154	Study of the combined particle identification capability of a transition radiation detector and a silicon imaging calorimeter during the TS93 balloon flight. Astroparticle Physics, 1997, 7, 219-230.	1.9	13
155	Studies of a full-scale mechanical prototype line for the ANTARES neutrino telescope and tests of a prototype instrument for deep-sea acoustic measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 581, 695-708.	0.7	13
156	LHC optics measurement with proton tracks detected by the Roman pots of the TOTEM experiment. New Journal of Physics, 2014, 16, 103041.	1.2	13
157	Measurement of the forward charged particle pseudorapidity density in pp collisions at $$sqrt{s} = 8$$ s = 8 ÂTeV using a displaced interaction point. European Physical Journal C, 2015, 75, 1.	1.4	13
158	Geomagnetically trapped, albedo and solar energetic particles: Trajectory analysis and flux reconstruction with PAMELA. Advances in Space Research, 2017, 60, 788-795.	1.2	13
159	The TOTEM detector at LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 62-66.	0.7	12
160	NEMO: A PROJECT FOR A KM3 UNDERWATER DETECTOR FOR ASTROPHYSICAL NEUTRINOS IN THE MEDITERRANEAN SEA. International Journal of Modern Physics A, 2007, 22, 3509-3520.	0.5	11
161	Space experiment TUS on board the Lomonosov satellite as pathfinder of JEM-EUSO. Experimental Astronomy, 2015, 40, 315-326.	1.6	11
162	A transition radiation detector prototype to measure the energy of muons in cosmic ray laboratories. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 305, 192-199.	0.7	10

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163	Geomagnetically trapped light isotopes observed with the detector NINA. Journal of Geophysical Research, 2002, 107, SMP 8-1-SMP 8-8.	3.3	10
164	Cosmic ray measurements with Pamela experiment. Nuclear Physics, Section B, Proceedings Supplements, 2009, 190, 293-299.	0.5	10
165	A balloon-borne prototype for demonstrating the concept of JEM-EUSO. Advances in Space Research, 2014, 53, 1544-1550.	1.2	10
166	The JEM-EUSO observation in cloudy conditions. Experimental Astronomy, 2015, 40, 135-152.	1.6	10
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