Andrea G Vacchi

List of Publications by Year
in descending order

285 papers	14,994 citations	50244 46 h-index	19169 118 g-index
285 all docs	285 docs citations	285 times ranked	10892 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	The ALICE experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08002-S08002.	0.5	811
3	PAMELA Measurements of Cosmic-Ray Proton and Helium Spectra. Science, 2011, 332, 69-72.	6.0	686
4	Elliptic Flow of Charged Particles in Pb-Pb Collisions at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msqrt><mml:msub><mml:mi>s</mml:mi><mml:mrow><mml:mi>N</mml:mi><mml:mi>N</mml:mi></mml:mrow	2.9	659
5	Centrality Dependence of the Charged-Particle Multiplicity Density at Midrapidity in Pb-Pb Collisions at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msqrt><mml:msub><mml:mi>s</mml:mi><mml:mi>NN</mml:mi></mml:msub></mml:msqrt><mml:mo>=	2.9	507
6	PAMELA Results on the Cosmic-Ray Antiproton Flux from 60ÂMeV to 180ÂGeV in Kinetic Energy. Physical Review Letters, 2010, 105, 121101.	2.9	444
7	ALICE: Physics Performance Report, Volume II. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 1295-2040.	1.4	441
8	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
9	Suppression of charged particle production at large transverse momentum in central Phâ€“Pb collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:msub><mml:mi>s</mml:mi><mml:mi mathvariant="italic">NN</mml:mi></mml:msub></mml:msqrt><mml:mo>=</mml:mo><mml:mn>2.76</mml:mn><mml:mtext> TeV</mml:mtext></mml:math>. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 30-39.	1.5	433
10	PAMELA â€“ A payload for antimatter matter exploration and light-nuclei astrophysics. Astroparticle Physics, 2007, 27, 296-315.	1.9	362
11	Charged-Particle Multiplicity Density at Midrapidity in Central Pb-Pb Collisions at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msqrt><mml:msub><mml:mi>s</mml:mi><mml:mrow><mml:mi>N</mml:mi><mml:mi>N</mml:mi></mml:mrow	2.9	296
12	Cosmic-Ray Electron Flux Measured by the PAMELA Experiment between 1 and 625ÂGeV. Physical Review Letters, 2011, 106, 201101.	2.9	281
13	Mammography with Synchrotron Radiation: Phase-Detection Techniques. Radiology, 2000, 215, 286-293.	3.6	265
14	Cosmic-Ray Positron Energy Spectrum Measured by PAMELA. Physical Review Letters, 2013, 111, 081102.	2.9	243
15	Two-pion Boseâ€“Einstein correlations in central Phâ€“Pb collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:msub><mml:mi>s</mml:mi><mml:mi mathvariant="normal">NN</mml:mi></mml:msub></mml:msqrt><mml:mo>=</mml:mo><mml:mn>2.76</mml:mn><mml:mtext> TeV</mml:mtext></mml:math>. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 328-337.	1.5	235
16	Low-dose phase contrast x-ray medical imaging. Physics in Medicine and Biology, 1998, 43, 2845-2852.	1.6	224
17	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
18	The Cosmicâ€Ray Electron and Positron Spectra Measured at 1 AU during Solar Minimum Activity. Astrophysical Journal, 2000, 532, 653-669.	1.6	213

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19	Charged-particle multiplicity measurement in protonâ€“proton collisions at $sqrt{s}=7$ÂTeV with ALICE at LHC. European Physical Journal C, 2010, 68, 345-354.	1.4	212
20	Production of pions, kaons and protons in pp collisions at $sqrt{s}= 900~mathrm{GeV}$ with ALICE at the LHC. European Physical Journal C, 2011, 71, 1.	1.4	209
21	Charged-particle multiplicity measurement in protonâ€“proton collisions at $sqrt{s}=0.9$ and 2.36ÂTeV with ALICE at LHC. European Physical Journal C, 2010, 68, 89-108.	1.4	199
22	The Cosmicâ€Ray Proton and Helium Spectra between 0.4 and 200 GV. Astrophysical Journal, 1999, 518, 457-472.	1.6	179
23	The enhanced X-ray Timing and Polarimetry missionâ€”eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	178
24	Physics at a future Neutrino Factory and super-beam facility. Reports on Progress in Physics, 2009, 72, 106201.	8.1	174
25	Alignment of the ALICE Inner Tracking System with cosmic-ray tracks. Journal of Instrumentation, 2010, 5, P03003-P03003.	0.5	171
26	A statistical procedure for the identification of positrons in the PAMELA experiment. Astroparticle Physics, 2010, 34, 1-11.	1.9	168
27	The Large Observatory for X-ray Timing (LOFT). Experimental Astronomy, 2012, 34, 415-444.	1.6	168
28	The Cosmicâ€Ray Antiproton Flux between 3 and 49 GeV. Astrophysical Journal, 2001, 561, 787-799.	1.6	165
29	Transverse momentum spectra of charged particles in protonâ€“proton collisions at <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>900</mml:mn><mml:mtext> GeV</mml:mtext></mml:math> with ALICE at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 53-68.	1.5	158
30	Strange particle production in protonâ€“proton collisions at $sqrt{s}=0.9$ $mbox {${m TeV}$}$ with ALICE at the LHC. European Physical Journal C, 2011, 71, 1.	1.4	140
31	MEASUREMENT OF BORON AND CARBON FLUXES IN COSMIC RAYS WITH THE PAMELA EXPERIMENT. Astrophysical Journal, 2014, 791, 93.	1.6	127
32	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
33	First protonâ€“proton collisions at the LHC as observed withÂtheÂALICE detector: measurement of the charged-particle pseudorapidity density at $sqrt{s}=900$ ÂGeV. European Physical Journal C, 2010, 65, 111-125.	1.4	124
34	Measurements of Ground-Level Muons at Two Geomagnetic Locations. Physical Review Letters, 1999, 83, 4241-4244.	2.9	112
35	The cosmic-ray proton and helium spectra measured with the CAPRICE98 balloon experiment. Astroparticle Physics, 2003, 19, 583-604.	1.9	112
36	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

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37	Femtoscopy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mi>p</mml:mi></mml:math>collisions 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>0.9</mml:mn></mml:math>and 7ÂTeV at the LHC with two-pion Bose-Einstein correlations. Physical Review D, 2011, 84, .	1.6	93
38	Dual origins of light flashes seen in space. Nature, 2003, 422, 680-680.	13.7	84
39	A high granularity imaging calorimeter for cosmic-ray physics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 487, 407-422.	0.7	81
40	Dense matter with eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	81
41	Status of the GAMMA-400 project. Advances in Space Research, 2013, 51, 297-300.	1.2	73
42	Midrapidity Antiproton-to-Proton Ratio in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mi>p</mml:mi></mml:math>Collisons 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>0.9</mml:mn></mml:math>and 7ATeV Measured by the ALICE Experiment. Physical Review Letters, 2010, 105, 072002.	2.9	67
43	Two-pion Bose-Einstein correlations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mi>p</mml:mi></mml:math>collisions 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>900</mml:mn><mml:mtext>â€‰	1.6	61
44	Performance of the UA6 large-area silicon drift chamber prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 306, 187-193.	0.7	60
45	New precision measurements of the muonic X-ray transition in 24Mg and 28Si: Vacuum polarisation test and search for muon-hadron interactions beyond QED. Nuclear Physics A, 1986, 451, 679-700.	0.6	57
46	Observatory science with eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	50
47	The PAMELA space experiment. Advances in Space Research, 2013, 51, 209-218.	1.2	45
48	Measurements of cosmic-ray electrons and positrons by the Wizard/CAPRICE collaboration. Advances in Space Research, 2001, 27, 669-674.	1.2	43
49	Large area silicon drift detector for the ALICE experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 485, 54-60.	0.7	43
50	Measurement of the flux of atmospheric muons with the CAPRICE94 apparatus. Physical Review D, 2000, 62, .	1.6	42
51	Spectroscopic quadrupole moment of 23Na from muonic X-rays. Nuclear Physics A, 1983, 408, 495-506.	0.6	41
52	Characteristics of the ALICE Silicon Drift Detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 133-138.	0.7	41
53	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
54	THE DISCOVERY OF GEOMAGNETICALLY TRAPPED COSMIC-RAY ANTIPROTONS. Astrophysical Journal Letters, 2011, 737, L29.	3.0	40

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55	The ALTEA/ALTEINO projects: studying functional effects of microgravity and cosmic radiation. Advances in Space Research, 2004, 33, 1352-1357.	1.2	39
56	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
57	Precision measurement of the 2p-1s transition in muonic 12C: Search for new muon-nucleon interactions or accurate determination of the rms nuclear charge radius. Nuclear Physics A, 1984, 430, 685-712.	0.6	38
58	Silicon X-ray detector for synchrotron radiation digital radiology. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 353, 366-370.	0.7	37
59	Design and evaluation of AC-coupled, FOXFET-biased, â€œedge-onâ€•silicon strip detectors for X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 385, 311-320.	0.7	37
60	Eye light flashes on the mir space station. Acta Astronautica, 2002, 50, 511-525.	1.7	37
61	Imaging performance of a large-area Silicon Drift Detector for X-ray astronomy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, 22-30.	0.7	37
62	Digital mammography with synchrotron radiation. Review of Scientific Instruments, 1995, 66, 1325-1328.	0.6	36
63	Launch of the space experiment PAMELA. Advances in Space Research, 2008, 42, 455-466.	1.2	36
64	Measurements of cosmic-ray proton and helium spectra with the PAMELA calorimeter. Advances in Space Research, 2013, 51, 219-226.	1.2	36
65	Direct photon cross sections in proton-proton and antiproton-proton interactions at GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 436, 222-230.	1.5	35
66	Room-temperature spectroscopic performance of a very-large area silicon drift detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, 15-21.	0.7	35
67	CASTOR a VLSI CMOS mixed analogâ€”digital circuit for low noise multichannel counting applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 377, 440-445.	0.7	32
68	In-flight performance of SilEye-2 experiment and cosmic ray abundances inside the Mir space station. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 2051-2064.	1.4	32
69	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
70	Direct photon production in proton-antiproton interactions at âˆšs = 24.3 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 206, 163-168.	1.5	31
71	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
72	PAMELA and indirect dark matter searches. New Journal of Physics, 2009, 11, 105023.	1.2	31

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73	New Measurement of the Flux of Atmospheric Muons. Physical Review Letters, 1999, 82, 4757-4760.	2.9	30
74	First Mass-resolved Measurement of High-Energy Cosmic-Ray Antiprotons. Astrophysical Journal, 2000, 534, L177-L180.	1.6	30
75	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
76	Vacuum polarization test and search for muonhadron interactions from muonic X-rays:. Nuclear Physics A, 1982, 375, 405-438.	0.6	29
77	LOFT: the Large Observatory For X-ray Timing. Proceedings of SPIE, 2012, , .	0.8	29
78	Experimental method to measure the hyperfine splitting of muomic hydrogen (Î¼-p)1S. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 172, 277-280.	0.9	28
79	Experiment NINA: investigation of low energy nuclear fluxes in the near-Earth space. Astroparticle Physics, 1997, 8, 109-121.	1.9	28
80	Energy spectra of atmospheric muons measured with the CAPRICE98 balloon experiment. Physical Review D, 2003, 67, .	1.6	27
81	The electronâ€“hadron separation performance of the PAMELA electromagnetic calorimeter. Astroparticle Physics, 2006, 26, 111-118.	1.9	27
82	A measurement of the inclusive Ï€0 and Î· production cross sections at high pT in pì„p and pp collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 194, 568-572.	1.5	26
83	A silicon imaging calorimeter prototype for antimatter search in space: experimental results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 333, 560-566.	0.7	26
84	The WiZard/CAPRICE silicon-tungsten calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 403-412.	0.7	26
85	The Sileyeâ€”Alteino experiment on board the International Space Station. Nuclear Physics, Section B, Proceedings Supplements, 2002, 113, 71-78.	0.5	26
86	Hyperfine spectroscopy of muonic hydrogen and the PSI Lamb shift experiment. Nuclear Instruments & Methods in Physics Research B, 2012, 281, 72-76.	0.6	26
87	Towards a multiâ€element silicon drift detector system for fluorescence spectroscopy in the soft Xâ€ray regime. X-Ray Spectrometry, 2017, 46, 313-318.	0.9	26
88	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
89	The X-Ray Spectroscopic Performance of a Very Large Area Silicon Drift Detector. IEEE Transactions on Nuclear Science, 2009, 56, 832-835.	1.2	25
90	Large-area linear Silicon Drift Detector design for X-ray experiments. Journal of Instrumentation, 2014, 9, P07014-P07014.	0.5	25

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91	Silicon drift chamber prototype for the upgrade of the UA6 experiment at the CERN p collider. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 273, 865-868.	0.7	24
92	Study of Cosmic Rays and Light Flashes on board Space Station MIR: The SilEye experiment. Advances in Space Research, 2000, 25, 2075-2079.	1.2	24
93	Design and performance of the GAMMA-400 gamma-ray telescope for dark matter searches. , 2013, , .		24
94	Castor 1.0, a VLSI analog-digital circuit for pixel imaging applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 395, 435-442.	0.7	23
95	Spectroscopic quadrupole moments of 25Mg and 27Al from muonic X-rays. Nuclear Physics A, 1982, 377, 361-378.	0.6	22
96	An "edge-on" silicon strip detector for X-ray imaging. IEEE Transactions on Nuclear Science, 1997, 44, 874-880.	1.2	22
97	ALTEA: Anomalous long term effects in astronauts. A probe on the influence of cosmic radiation and microgravity on the central nervous system during long flights. Advances in Space Research, 2003, 31, 141-146.	1.2	22
98	New developments in the field of silicon detectors for digital radiology. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 377, 508-513.	0.7	21
99	At the frontiers of digital mammography: SYRMEP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 409, 529-533.	0.7	21
100	Highâ€Energy Deuteron Measurement with the CAPRICE98 Experiment. Astrophysical Journal, 2004, 615, 259-274.	1.6	21
101	Designing a linear silicon drift detector. IEEE Transactions on Nuclear Science, 1995, 42, 1497-1504.	1.2	20
102	High-Precision Muonic X-Ray Measurement of the rms Charge Radius ofC12with a Crystal Spectrometer. Physical Review Letters, 1982, 49, 859-862.	2.9	19
103	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
104	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
105	The Space Experiment PAMELA. Nuclear Physics, Section B, Proceedings Supplements, 2004, 134, 39-46.	0.5	19
106	New measurement of the cross section for the elastic scattering process Î¼p + p â†' Î¼p + p in gaseous hydrogen at 26 atmospheres. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 78, 355-359.	1.5	18
107	Electron injection in semiconductor drift chambers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 295, 489-491.	0.7	18
108	Beam test of a large area silicon drift detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 326, 267-272.	0.7	18

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109	A linear array silicon pixel detector: images of a mammographic test object and evaluation of delivered doses. Physics in Medicine and Biology, 1997, 42, 1565-1573.	1.6	18
110	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
111	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
112	Laboratory and test beam results from a large-area silicon drift detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 439, 476-482.	0.7	18
113	The Sileye-3/Alteino Experiment for the Study of Light Flashes, Radiation Environment and Astronaut Brain Activity on Board the International Space Station. Journal of Radiation Research, 2002, 43, S47-S52.	0.8	18
114	Detector response and calibration of the cosmic-ray detector of the Sileye-3/Alteino experiment. Advances in Space Research, 2006, 37, 1691-1696.	1.2	18
115	Gamma-Light: High-Energy Astrophysics above 10 MeV. Nuclear Physics, Section B, Proceedings Supplements, 2013, 239-240, 193-198.	0.5	18
116	A method for doping fluctuations measurement in high resistivity silicon. Journal of Applied Physics, 1992, 71, 3593-3599.	1.1	17
117	Determination of Î±s and the gluon distribution using direct photon production in and pp collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 317, 250-256.	1.5	17
118	Results from beam tests of large area silicon drift detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 539, 250-261.	0.7	17
119	The ALICE silicon drift detectors: Production and assembly. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 733-738.	0.7	17
120	Measurements of quasiâ€trapped electron and positron fluxes with PAMELA. Journal of Geophysical Research, 2009, 114, .	3.3	17
121	On the initial population of the 2S metastable state in muonic hydrogen and deuterium. Lettere Al Nuovo Cimento Rivista Internazionale Della SocietÃ Italiana Di Fisica, 1977, 18, 277-282.	0.4	15
122	Direct photon production in and pp interactions at âˆšs = 24.3 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 317, 243-249.	1.5	15
123	Steps towards the use of silicon drift detectors in heavy ion collisions at LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 360, 67-70.	0.7	15
124	Charge injectors of ALICE Silicon Drift Detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 572, 125-127.	0.7	15
125	A large area detector proposed for the Large Observatory for X-ray Timing (LOFT). , 2012, , .		15
126	Theoretical and computational study of the energy dependence of the muon transfer rate from hydrogen to higher-Z gases. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 151-156.	0.9	15

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127	Silicon calorimeter for cosmic antimatter search. Nuclear Physics, Section B, Proceedings Supplements, 1993, 32, 77-82.	0.5	14
128	Silicon drift detector; studies about geometry of electrodes and production technology. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 377, 393-396.	0.7	14
129	A multilayer edge-on silicon microstrip single photon counting detector for momography mammography. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 592-597.	0.5	14
130	Correction of dopant concentration fluctuation effects in silicon drift detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 222-225.	0.7	14
131	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
132	Relative nuclear abundances inside ISS with Sileye-3/Alteino experiment. Advances in Space Research, 2006, 37, 1685-1690.	1.2	13
133	Measurement of the effect of non ionising energy losses on the leakage current of silicon drift detector prototypes for the LOFT satellite. Journal of Instrumentation, 2014, 9, P07016-P07016.	0.5	13
134	STROBE-X: a probe-class mission for x-ray spectroscopy and timing on timescales from microseconds to years. , 2018, , .		13
135	Crystal spectrometer for measurements of pionic X-rays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1985, 238, 365-380.	0.7	12
136	The GILDA mission: a new technique for a gamma-ray telescope in the energy range 20 MeV-100 GeV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 354, 547-552.	0.7	12
137	Use of field plate in a linear silicon drift detector (SDD). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 360, 110-112.	0.7	12
138	The ALICE Silicon Drift Detector system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 501, 119-125.	0.7	12
139	Toward the measurement of the hyperfine splitting in the ground state of muonic hydrogen. Hyperfine Interactions, 2015, 233, 97-101.	0.2	12
140	A programmable System-on-Chip based digital pulse processing for high resolution X-ray spectroscopy. , 2016, , .		12
141	A new detector system for low energy X-ray fluorescence coupled with soft X-ray microscopy: First tests and characterization. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 816, 113-118.	0.7	12
142	Space applications of GAGG:Ce scintillators: a study of afterglow emission by proton irradiation. Nuclear Instruments & Methods in Physics Research B, 2022, 513, 33-43.	0.6	12
143	Silicon detectors for synchrotron radiation digital mammography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 360, 283-286.	0.7	11
144	Digital mammography at the Trieste synchrotron light source. IEEE Transactions on Nuclear Science, 1996, 43, 2061-2067.	1.2	11

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