

# Giuseppe Battistoni

## List of Publications by Year in descending order

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315  
papers

14,298  
citations

25034

57  
h-index

24258

110  
g-index

320  
all docs

320  
docs citations

320  
times ranked

11285  
citing authors

#	ARTICLE	IF	CITATIONS
1	The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.	1.2	1,752
2	The FLUKA code: description and benchmarking. AIP Conference Proceedings, 2007, , .	0.4	747
3	Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 252303.	7.8	581
4	Overview of the FLUKA code. Annals of Nuclear Energy, 2015, 82, 10-18.	1.8	540
5	Design, construction and tests of the ICARUS T600 detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 527, 329-410.	1.6	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.	4.1	315
7	Charged-particle multiplicities in $pp$ interactions measured with the ATLAS detector at the LHC. New Journal of Physics, 2011, 13, 053033.	2.9	314
8	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	3.9	259
9			

#	ARTICLE	IF	CITATIONS
19	Search for Supersymmetry Using Final States with One Lepton, Jets, and Missing Transverse Momentum with the ATLAS Detector in $\sqrt{s} = 7$ TeV Proton-Proton Collisions. Physical Review Letters, 2011, 106, 131802.	7.8	136
20	Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physical Review D, 2012, 86, .	4.7	135
21	Charged-particle multiplicities in pp interactions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 131802.	4.1	126
22	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions. Physical Review Letters, 2010, 105, 161801.	4.1	126
23	Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physical Review D, 2011, 83, .	4.7	121
24	A search for new physics in dijet mass and angular distributions in $\sqrt{s} = 7$ TeV pp collisions measured with the ATLAS detector. New Journal of Physics, 2011, 13, 053044.	2.9	116
25	Measurement of inclusive jet and dijet cross sections in $\sqrt{s} = 7$ TeV proton-proton collisions at the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	114
26	Search for New Particles in Two-Jet Final States in $\sqrt{s} = 7$ TeV Proton-Proton Collisions with the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 161801.	7.8	113
27	Distributions of secondary particles in proton and carbon-ion therapy: a comparison between GATE/Geant4 and FLUKA Monte Carlo codes. Physics in Medicine and Biology, 2013, 58, 2879-2899.	3.0	110
28	A 3-dimensional calculation of the atmospheric neutrino fluxes. Astroparticle Physics, 2000, 12, 315-333.	4.3	107
29	Measurement of the centrality dependence of Z production yields and observation of Z production in lead-lead collisions with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 294-312.	4.1	107
30	Observation of a time modulated muon flux in the direction of Cygnus X-3. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 155, 465-467.	4.1	104
31	The FLUKA atmospheric neutrino flux calculation. Astroparticle Physics, 2003, 19, 269-290.	4.3	104
32	Online proton therapy monitoring: clinical test of a Silicon-photodetector-based in-beam PET. Scientific Reports, 2018, 8, 4100.	3.3	103
33	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.	4.1	97
34	Resistive cathode transparency. Nuclear Instruments & Methods in Physics Research, 1982, 202, 459-464.	0.9	89
35	Study of electron recombination in liquid argon with the ICARUS TPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 523, 275-286.	1.6	87
36	The fluka code for space applications: recent developments. Advances in Space Research, 2004, 34, 1302-1310.	2.6	87

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37	Operation of limited streamer tubes. Nuclear Instruments & Methods, 1979, 164, 57-66.	1.2	84
38	A Monte Carlo-based treatment planning tool for proton therapy. Physics in Medicine and Biology, 2013, 58, 2471-2490.	3.0	84
39	Atmospheric neutrino flux measurement using upgoing muons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 481-486.	4.1	83
40	Search for Dilepton Resonances in $pp$ Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2011, 107, 272002.	7.8	81
41	The atmospheric neutrino flux below 100MeV: The FLUKA results. Astroparticle Physics, 2005, 23, 526-534.	4.3	80
42	Search for new physics in the dijet mass distribution using $1 \text{ fb}^{-1}$ of $pp$ collision data at $\sqrt{s} = 7$ TeV collected by the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 37-54.	4.1	78
43	Low energy atmospheric muon neutrinos in MACRO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 478, 5-13.	4.1	73
44	Measurement of the inclusive and dijet cross-sections of $b$ -jets in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	73
45	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.	4.3	71
46	Measurement of the top quark pair production cross-section with ATLAS in the single lepton channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 711, 244-263.	4.1	69
47	Neutrino Astronomy with the MACRO Detector. Astrophysical Journal, 2001, 546, 1038-1054.	4.5	65
48	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 7$ TeV $pp$ collisions with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	65
49	The physics of the FLUKA code: Recent developments. Advances in Space Research, 2007, 40, 1339-1349.	2.6	64
50	Measurement of the $W \rightarrow \tau \nu_\tau$ and $Z \rightarrow \tau \tau$ production cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1.	4.7	64
51	Fully contained events in the Mont Blanc nucleon decay detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 118, 461-465.	4.1	63
52	Calculation of electron and isotopes dose point kernels with <code>fluka</code> Monte Carlo code for dosimetry in nuclear medicine therapy. Medical Physics, 2011, 38, 3944-3954.	3.0	62
53	Measurement of Dijet Azimuthal Decorrelations in $pp$ Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2011, 106, 172002.	7.8	61
54	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.	1.6	60

#	ARTICLE	IF	CITATIONS
55	Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. European Physical Journal C, 2011, 71, 1.	3.9	60
56	Searches for supersymmetry with the ATLAS detector using final states with two leptons and missing transverse momentum in $\sqrt{s} = 7$ TeV pp collisions using 1 fb <sup>-1</sup> of ATLAS data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 1-19.	4.1	58
57	Search for quark contact interactions in dijet angular distributions in pp collisions at $\sqrt{s} = 7$ TeV measured with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 694, 327-345.	4.1	58
58	Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in $\sqrt{s} = 7$ TeV pp collisions using 1 fb <sup>-1</sup> of ATLAS data. Physical Review D, 2012, 85, .	4.7	57
59	Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	56
60	Analysis of the liquid argon purity in the ICARUS T600 TPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 516, 68-79.	1.6	55
61	The NUSEX detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1986, 245, 277-290.	1.6	54
62	Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV using 1 fb <sup>-1</sup> of ATLAS data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 1-19.	4.1	54
63	Detection of induced pulses in proportional wire devices with resistive cathodes. Nuclear Instruments & Methods, 1978, 152, 423-430.	1.2	53
64	Carbon fragmentation measurements and validation of the Geant4 nuclear reaction models for hadrontherapy. Physics in Medicine and Biology, 2012, 57, 7651-7671.	3.0	53
65	Fred: a GPU-accelerated fast-Monte Carlo code for rapid treatment plan recalculation in ion beam therapy. Physics in Medicine and Biology, 2017, 62, 7482-7504.	3.0	53
66	Search for stable hadronising squarks and gluinos with the ATLAS experiment at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 1-19.	4.1	52
67	The macro detector at the Gran Sasso Laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 264, 18-23.	1.6	50
68	Nucleon stability, magnetic monopoles and atmospheric neutrinos in the Mont-Blanc experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 133, 454-460.	4.1	49
69	INSIDE in-beam positron emission tomography system for particle range monitoring in hadrontherapy. Journal of Medical Imaging, 2016, 4, 011005.	1.5	49
70	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.	4.3	47
71	Search for a heavy gauge boson decaying to a charged lepton and a neutrino in 1 fb <sup>-1</sup> of pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 1-19.	4.1	52
72	Search for New Phenomena in $\sqrt{s} = 7$ TeV pp collisions using 1 fb <sup>-1</sup> of ATLAS data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 1-19.	7.8	46

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73	Measurement of the cross section for the production of a $W$ boson in association with $b$ -jets in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 127, 1-10.	4.1	45
74	Search for neutral MSSM Higgs bosons decaying to $b\bar{b}$ pairs in proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 127, 1-10.	4.1	45
75	Measurement of the top quark pair production cross section in $pp$ collisions at $\sqrt{s}=7$ TeV in dilepton final states with ATLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 127, 1-10.	4.1	45
76	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.	4.1	44
77	Resistive cathode detectors with bidimensional strip readout: Tubes and drift chambers. Nuclear Instruments & Methods, 1980, 176, 297-303.	1.2	43
78	Characterization of ETL 9357FLA photomultiplier tubes for cryogenic temperature applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 556, 146-157.	1.6	41
79	Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in $\sqrt{s}=7$ TeV proton collisions with the ATLAS experiment. European Physical Journal C, 2011, 71, 1.	3.9	41
80	Measurement of the isolated diphoton cross section in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 127, 1-10.	4.7	41
81	Measurement of hadronic exclusive cross sections in $e^+e^-$ annihilation from 1.42 to 2.20 GeV. Nuclear Physics B, 1981, 184, 31-39.	2.5	40
82	Limits on the production of the standard model Higgs boson in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	40
83	Proton range monitoring with in-beam PET: Monte Carlo activity predictions and comparison with cyclotron data. Physica Medica, 2014, 30, 559-569.	0.7	39
84	Charged particle flux measurement from PMMA irradiated by 80 MeV/u carbon ion beam. Physics in Medicine and Biology, 2012, 57, 5667-5678.	3.0	37
85	Measurement of the transverse momentum distribution of $W$ bosons in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 127, 1-10.	4.7	37
86	Search for a Lorentz invariance violation contribution in atmospheric neutrino oscillations using MACRO data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 615, 14-18.	4.1	36
87	Measurement of through-going particle momentum by means of multiple scattering with the ICARUS T600 TPC. European Physical Journal C, 2006, 48, 667-676.	3.9	36
88	International Scoping Study (ISS) for a future neutrino factory and Super-Beam facility. Detectors and flux instrumentation for future neutrino facilities. Journal of Instrumentation, 2009, 4, T05001-T05001.	1.2	36
89	Search for diffuse neutrino flux from astrophysical sources with MACRO. Astroparticle Physics, 2003, 19, 1-13.	4.3	35
90	Search for the Higgs Boson in the $H \rightarrow WW^{(*)} \rightarrow l\bar{l}\nu\bar{\nu}$ Decay Channel in $pp$ Collisions at $\sqrt{s}=7$ TeV with the ATLAS Detector. Physical Review Letters, 2012, 108, 111802.	7.8	35



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91	Properties of para-terphenyl as a Detector for $\alpha$ and $\beta$ Radiation. $\text{IEEE Transactions on Nuclear Science}$ , 2014, 61, 1483-1487.	2.0	35
92	The FLUKA code: New developments and application to 1GeV/n iron beams. <i>Advances in Space Research</i> , 2005, 35, 214-222.	2.6	34
93	Inclusive search for same-sign dilepton signatures in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2011, 2011, 1. Measurement of the $Z$ Production Cross Section and	4.7	33
94	Limits on Anomalous Neutral Triple Gauge Couplings in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2012, 108, 041804.	7.8	33
95	Search for nuclearites using the MACRO detector. <i>Physical Review Letters</i> , 1992, 69, 1860-1863.	7.8	32
96	Measurement of the residual energy of muons in the Gran Sasso underground laboratories. <i>Astroparticle Physics</i> , 2003, 19, 313-328.	4.3	32
97	A new, very massive modular Liquid Argon Imaging Chamber to detect low energy off-axis neutrinos from the CNGS beam (Project MODULAR). <i>Astroparticle Physics</i> , 2008, 29, 174-187. Search for high mass dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.	4.3	32
98	Use of the FLUKA Monte Carlo code for 3D patient-specific dosimetry on PET-CT and SPECT-CT images. <i>Physics in Medicine and Biology</i> , 2013, 58, 8099-8120. Measurement of the production cross section for $Z$ association with jets in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.	4.1	32
99	Measurement of the production cross section for $Z$ association with jets in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector.	3.0	32
100	Carbon ions beam therapy monitoring with the INSIDE in-beam PET. <i>Physics in Medicine and Biology</i> , 2018, 63, 145018.	4.7	31
101	Electrodeless plastic streamer tubes. <i>Nuclear Instruments &amp; Methods in Physics Research</i> , 1983, 217, 429-431.	3.0	31
102	Study of the high energy cosmic ray cascades using the dual parton model. <i>Astroparticle Physics</i> , 1995, 3, 157-184.	0.9	30
103	Design and implementation of the Front End Board for the readout of the ATLAS liquid argon calorimeters. <i>Journal of Instrumentation</i> , 2008, 3, P03004-P03004.	4.3	30
104	The FIRST experiment at GSI. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 678, 130-138.	1.2	30
105	Secondary radiation measurements for particle therapy applications: prompt photons produced by $^4\text{He}$ , $^{12}\text{C}$ and $^{16}\text{O}$ ion beams in a PMMA target. <i>Physics in Medicine and Biology</i> , 2017, 62, 1438-1455.	1.6	30
106	Measurement of the decoherence function with the MACRO detector at Gran Sasso. <i>Physical Review D</i> , 1992, 46, 4836-4845.	3.0	30
107	Moon and Sun shadowing effect in the MACRO detector. <i>Astroparticle Physics</i> , 2003, 20, 145-156.	4.7	29
108		4.3	29

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109	Search for a Standard Model Higgs Boson in the $H \rightarrow ZZ \rightarrow 4\ell$ Decay Channel with the ATLAS Detector. Physical Review Letters, 2011, 107, 221802.	7.8	29
110	Measurement of the energy spectrum of underground muons at Gran Sasso with a transition radiation detector. Astroparticle Physics, 1999, 10, 11-20.	4.3	27
111	Measurement of the cross-section for b-jets produced in association with a Z boson at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 706, 295-313.	4.3	26
112	An in-beam PET system for monitoring ion-beam therapy: test on phantoms using clinical 62 MeV protons. Journal of Instrumentation, 2014, 9, C04005-C04005.	1.2	27
113	Monte Carlo simulation tool for online treatment monitoring in hadrontherapy with in-beam PET: A patient study. Physica Medica, 2018, 51, 71-80.	0.7	27
114	Performance of a limited streamer tube hadron calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1986, 247, 438-444.	1.6	26
115	Performance of the MACRO streamer tube system in the search for magnetic monopoles. Astroparticle Physics, 1995, 4, 33-43.	4.3	26
116	High energy cosmic ray physics with underground muons in MACRO. II. Primary spectra and composition. Physical Review D, 1997, 56, 1418-1436.	4.7	26
117	Performance of the ATLAS electromagnetic calorimeter end-cap module 0. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 500, 178-201.	1.6	26
118	Performance of the ATLAS electromagnetic calorimeter barrel module 0. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 500, 202-231.	1.6	26
119	Measurement of the $Z \rightarrow \tau\tau$ cross section with the ATLAS detector. Physical Review D, 2011, 84, .	4.3	26
120	The INSIDE Project: Innovative Solutions for In-Beam Dosimetry in Hadrontherapy. Acta Physica Polonica A, 2015, 127, 1465-1467.	0.5	26
121	Search for neutrino bursts from collapsing stars with the MACRO detector. Astroparticle Physics, 1992, 1, 11-25.	4.3	25
122	Performance of a large scale prototype of the ATLAS accordion electromagnetic calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 364, 290-306.	1.6	25
123	Observation of long ionizing tracks with the ICARUS T600 first half-module. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 508, 287-294.	1.6	25
124	Design of a new tracking device for on-line beam range monitor in carbon therapy. Physica Medica, 2017, 34, 18-27.	0.7	25
125	Measuring the Impact of Nuclear Interaction in Particle Therapy and in Radio Protection in Space: the FOOT Experiment. Frontiers in Physics, 2021, 8, .	2.1	25
126	Performance of a liquid argon Accordion calorimeter with fast readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 321, 467-478.	1.6	24



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127	GCR and SPE organ doses in deep space with different shielding: Monte Carlo simulations based on the FLUKA code coupled to anthropomorphic phantoms. Advances in Space Research, 2006, 37, 1791-1797.	2.6	24
128	Measurement of the $W^+$ Section in $W^+ \rightarrow \ell^+ \nu_\ell$ Physical Review Letters, 2011, 107, 041801.	7.8	24
129	$b \rightarrow s \gamma$ production in $b \rightarrow s \gamma$ interactions at $b \rightarrow s \gamma$ Nuclear Instruments & Methods in Physics Research, 1983, 217, 433-439.	4.7	24
130	Influence of gas mixture and cathode material on limited streamer operation. Nuclear Instruments & Methods in Physics Research, 1983, 217, 433-439.	0.9	23
131	Detection of Cherenkov light emission in liquid argon. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 516, 348-363.	1.6	23
132	Applications of FLUKA Monte Carlo code for nuclear and accelerator physics. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2850-2856.	1.4	23
133	Search for the Standard Model Higgs boson in the two photon decay channel with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 452-470.	4.1	23
134	Search for the Higgs Boson in the $D^0 \rightarrow \gamma \gamma$ Decay Channel in $pp$ Collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS Detector. Physical Review Letters, 2011, 107, 231801.	7.8	23
135	production in jets from $p p \rightarrow p p \gamma$ collisions at $p p \rightarrow p p \gamma$	4.7	23
136	Monitoring of Hadrontherapy Treatments by Means of Charged Particle Detection. Frontiers in Oncology, 2016, 6, 177.	2.8	23
137	A novel algorithm for the calculation of physical and biological irradiation quantities in scanned ion beam therapy: the beamlet superposition approach. Physics in Medicine and Biology, 2016, 61, 183-214.	3.0	23
138	Secondary radiation measurements for particle therapy applications: nuclear fragmentation produced by $^4\text{He}$ ion beams in a PMMA target. Physics in Medicine and Biology, 2017, 62, 1291-1309.	3.0	23
139	Measurement of the $e^+e^- \rightarrow \tau^+\tau^-$ cross section in the $\sqrt{s} = 1600$ energy region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1980, 95, 139-142.	4.1	22
140	Evaluation of the doses to aircrew members taking into consideration the aircraft structures. Advances in Space Research, 2005, 36, 1645-1652.	2.6	22
141	Radiation qualification of the front-end electronics for the readout of the ATLAS liquid argon calorimeters. Journal of Instrumentation, 2008, 3, P10005-P10005.	1.2	22
142	Search for the Standard Model Higgs boson in the decay channel $\tau^+ \tau^-$ Nuclear Instruments & Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 786, 120-126.	4.1	22
143	Online monitoring for proton therapy: A real-time procedure using a planar PET system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 786, 120-126.	1.6	22
144	Primary cosmic-ray spectrum at energies $10^{13} \text{--} 10^{16}$ eV from multiple muon events in NUSEX experiment. Il Nuovo Cimento Della Societ� Italiana Di Fisica C, 1985, 8, 76-92.	0.2	21

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145	Performance of the ICARUS liquid argon prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 498, 185-189.	1.6	21
146	Search for high-mass states with one lepton plus missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics, 2016, 349, 1-10.	4.1	21
147	Cost-benefit analysis of applied research infrastructure. Evidence from health care. Technological Forecasting and Social Change, 2016, 112, 79-91.	11.6	21
148	Response of streamer tubes to highly ionizing particles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 270, 135-189.	1.6	20
149	Measurement of the fragmentation cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics, 2012, 318, 1-10.	4.1	20
150	Measurement of fragmentation cross sections of $C^{12}$ ions on a thin gold target with the FIRST apparatus. Physical Review C, 2016, 93, .	2.9	20
151	Simultaneous observation of extensive air showers and deep-underground muons at the Gran Sasso Laboratory. Physical Review D, 1990, 42, 1396-1403.	4.7	19
152	Comparison of the FLUKA calculations with CAPRICE94 data on muons in atmosphere. Astroparticle Physics, 2002, 17, 477-488.	4.3	19
153	Monte Carlo calculation of the angular distribution of cosmic rays at flight altitudes. Radiation Protection Dosimetry, 2004, 112, 331-343.	0.8	19
154	Search for Diphoton Events with Large Missing Transverse Energy in $7$ TeV Proton-Proton Collisions with the ATLAS Detector. Physical Review Letters, 2011, 106, 121803.	7.8	19
155	Review and performance of the Dose Profiler, a particle therapy treatments online monitor. Physica Medica, 2019, 65, 84-93.	0.7	19
156	The performance of MACRO liquid scintillator in the search for magnetic monopoles with $10^{23} < \hat{p}^2 < 1$ . Astroparticle Physics, 1997, 6, 113-128.	4.3	18
157	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.	1.6	18
158	Measurement and simulation of the neutron response and detection efficiency of a Pb-scintillating fiber calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 581, 368-372.	1.6	18
159	Performance of the ATLAS detector using first collision data. Journal of High Energy Physics, 2010, 2010, 1.	4.7	18
160	Search for an excess of events with an identical flavour lepton pair and significant missing transverse momentum in $\sqrt{s}=7$ TeV proton-proton collisions with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	18
161	FLUKA Monte Carlo simulation for the Leksell Gamma Knife Perfexion radiosurgery system: Homogeneous media. Physica Medica, 2013, 29, 656-661.	0.7	18
162	Are Further Cross Section Measurements Necessary for Space Radiation Protection or Ion Therapy Applications? Helium Projectiles. Frontiers in Physics, 2020, 8, .	2.1	18

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