

Paulo Martins

List of Publications by Year in descending order

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89
papers

6,768
citations

71061

41
h-index

60583

81
g-index

91
all docs

91
docs citations

91
times ranked

7185
citing authors

#	ARTICLE	IF	CITATIONS
1	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	1.4	1,187
2	Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 252303.	2.9	581
3	Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC. New Journal of Physics, 2011, 13, 053033.	1.2	314
4	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	1.4	259
5	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. European Physical Journal C, 2012, 72, 1.	1.4	248
6	Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 175-182.	1.5	231
7	Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s} = 7$ TeV with ATLAS. European Physical Journal C, 2012, 72, 1.	1.4	230
8	Luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.	1.4	179
9	Measurement of the differential cross-sections of inclusive, prompt and non-prompt J/ψ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Beam Transport, Optics, Detectors, and Related Instrumentation, 2011, 648, 1-12.	0.9	163
10	Measurement of the inelastic proton-proton cross-section at $\sqrt{s} = 7$ TeV with the ATLAS detector. Nature Communications, 2011, 2, 463.	5.8	160
11	Measurement of the top quark-pair production cross section with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	146
12	Search for Supersymmetry Using Final States with One Lepton, Jets, and Missing Transverse Momentum with the ATLAS Detector in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 131802.	2.9	136
13	Charged-particle multiplicities in pp interactions at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 175-182.	1.5	136
14	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 175-182.	1.5	126
15	Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.	1.4	121
16	Measurement of the inclusive isolated prompt photon cross section in pp collisions at the ATLAS detector. Physical Review D, 2011, 83, 114012.	1.6	121
17	A search for new physics in dijet mass and angular distributions in pp collisions at $\sqrt{s} = 7$ TeV measured with the ATLAS detector. New Journal of Physics, 2011, 13, 053044.	1.2	116
18	Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	114

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19	Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC. <i>Physical Review Letters</i> , 2010, 105, 161801.	2.9	113
20	Measurement of the centrality dependence of the charged particle pseudorapidity distribution in lead-lead collisions at $\sqrt{s_{NN}}$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 697, 294-312.	2.76	109
21	Measurement of the production cross section of Z bosons in proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.5	107
22	The ATLAS Inner Detector commissioning and calibration. <i>European Physical Journal C</i> , 2010, 70, 787-821.	1.4	95
23	Measurement of underlying event characteristics using charged particles in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2011, 83, 034005.	1.6	70
24	Measurement of the W, Z and Z production cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.6	64
25	Readiness of the ATLAS liquid argon calorimeter for LHC collisions. <i>European Physical Journal C</i> , 2010, 70, 723-753.	1.4	61
26	Measurement of Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011, 106, 172002.	2.9	61
27	Measurement of multi-jet cross sections in proton collisions at a 7 TeV center-of-mass energy. <i>European Physical Journal C</i> , 2011, 71, 1.	1.4	60
28	Measurement of the transverse momentum distribution of Z bosons in proton collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011, 106, 172002.	1.5	57
29	Search for a dark photon in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 701, 1-19.	1.6	55
30	Study of jet shapes in inclusive jet production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2011, 83, 034005.	1.5	54
31	Search for stable hadronising squarks and gluinos with the ATLAS experiment at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 701, 1-19.	1.5	52
32	Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons. <i>European Physical Journal C</i> , 2010, 70, 755-785.	1.4	51
33	Measurement of the inclusive isolated prompt photon cross-section in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. <i>Physical Review D</i> , 2011, 83, 034005.	1.5	49
34	Measurement of dijet production with a veto on additional central jet activity in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	46
35	Measurements of the electron and muon inclusive cross-sections in proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 707, 438-458.	1.5	45

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37	Search for neutral MSSM Higgs bosons decaying to $\tau\tau$ pairs in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 459-477.	1.5	45
38	Measurement of the top quark pair production 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, 707, 459-477.	1.5	45
39	Gradual Rewarming with Gradual Increase in Pressure during Machine Perfusion after Cold Static Preservation Reduces Kidney Ischemia Reperfusion Injury. PLoS ONE, 2015, 10, e0143859.	1.1	44
40	Search for heavy long-lived charged particles with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 71, 1.	1.5	41
41	Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in $\sqrt{s}=7$ TeV proton-proton collisions with the ATLAS experiment. European Physical Journal C, 2011, 71, 1.	1.4	41
42	Measurement of the isolated diphoton cross section in $\sqrt{s}=7$ TeV proton-proton collisions at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 71, 1.	1.6	41
43	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.	1.4	40
44	Measurement of the production cross section for W-bosons in association with jets in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 71, 1.	1.5	38
45	Search for massive long-lived highly ionising particles with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 71, 1.	1.5	38
46	Exploring educational immersive videogames: an empirical study with a 3D multimodal interaction prototype. Behaviour and Information Technology, 2016, 35, 907-918.	2.5	34
47	Inclusive search for same-sign dilepton signatures in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	1.6	33
48	Search for high mass dilepton resonances in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 71, 1.	1.5	32
49	Measurements of underlying event properties using neutral and charged particles in pp collisions at $\sqrt{s}=900$ GeV and $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.	1.4	31
50	Properties of jets measured from tracks in proton-proton collisions at center-of-mass energy $\sqrt{s}=7$ TeV with the ATLAS detector. Physical Review D, 2011, 84, 1.	1.6	29
51	Search for massive long-lived highly ionising particles with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 71, 1.	1.5	28
52	Measurement of the $Z\tau\tau$ cross section with the ATLAS detector. Physical Review D, 2011, 84, 1.	1.6	29
53	Measurement of the $W\tau\tau$ cross section in $\sqrt{s}=7$ TeV proton-proton collisions with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 71, 1.	2.9	24
54	Whole-Body Single-Bed Time-of-Flight RPC-PET: Simulation of Axial and Planar Sensitivities With NEMA and Anthropomorphic Phantoms. IEEE Transactions on Nuclear Science, 2012, 59, 520-529.	1.2	24

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55	Commissioning of the ATLAS Muon Spectrometer with Cosmic Rays. European Physical Journal C, 2010, 70, 875-916.	1.4	23
56	TOFtracker: gaseous detector with bidimensional tracking and time-of-flight capabilities. Journal of Instrumentation, 2012, 7, P11012-P11012.	0.5	23
57	Measurement of the Λ production cross section in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.5	21
58	Search for high-mass states with one lepton plus missing transverse momentum in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.5	21
59	Search for Diphoton Events with Large Missing Transverse Energy in $\sqrt{s} = 7$ TeV Proton-Proton Collisions with the ATLAS Detector. Physical Review Letters, 2011, 106, 121803.	2.9	19
60	Performance of the ATLAS detector using first collision data. Journal of High Energy Physics, 2010, 2010, 1.	1.6	18
61	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.	1.4	18
62	Search for pair production of first or second generation leptoquarks in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physical Review D, 2011, 83, 1.	1.6	17
63	Studies of the performance of the ATLAS detector using cosmic-ray muons. European Physical Journal C, 2011, 71, 1.	1.4	17
64	The Laser calibration of the ATLAS Tile Calorimeter during the LHC run 1. Journal of Instrumentation, 2016, 11, T10005-T10005.	0.5	17
65	Search for diphoton events with large missing transverse energy with $\sqrt{s} = 7$ TeV proton-proton collision data with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	15
66	Search for a Heavy Particle Decaying into an Electron and a Muon with the ATLAS Detector in $\sqrt{s} = 7$ TeV proton-proton collisions at the LHC. Physical Review Letters, 2011, 106, 251801.	2.9	15
67	Towards very high resolution RPC-PET for small animals. Journal of Instrumentation, 2014, 9, C10012-C10012.	0.5	15
68	PIBS: Proton and ion beam spectroscopy for in vivo measurements of oxygen, carbon, and calcium concentrations in the human body. Scientific Reports, 2020, 10, 7007.	1.6	14
69	Search for lepton flavour violation in the e^+e^- continuum with the ATLAS detector in $\sqrt{s} = 7-13$ TeV pp collisions at the LHC. European Physical Journal C, 2012, 72, 2040.	1.4	13
70	Measurement of $W^{\pm}Z$ and Z^0Z^0 production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	1.6	11
71	Dose-Free Monitoring of Radiotherapy Treatments With Scattered Photons: First Experimental Results at a 6-MV Linac. IEEE Transactions on Nuclear Science, 2013, 60, 3110-3118.	1.2	11
72	Results from the experimental evaluation of CeBr scintillators for He prompt gamma spectroscopy. Medical Physics, 2019, 46, 3615-3626.	1.6	11

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73	Resistive plate chambers in positron emission tomography. <i>European Physical Journal Plus</i> , 2013, 128, 1.	1.2	8
74	Prompt gamma spectroscopy for range control with CeBr_3 . <i>Current Directions in Biomedical Engineering</i> , 2017, 3, 113-117.	0.2	8
75	Prompt gamma spectroscopy for absolute range verification of ^{12}C ions at synchrotron-based facilities. <i>Physics in Medicine and Biology</i> , 2020, 65, 095010.	1.6	8
76	Search for contact interactions in dimuon events from \sqrt{s} collisions at the ATLAS detector. <i>Physical Review D</i> , 2011, 84, .	1.6	6
77	CeBr_3 scintillators for ^4He prompt gamma spectroscopy: Results from a Monte Carlo optimization study. <i>Medical Physics</i> , 2018, 45, 1622-1630.	1.6	6
78	A Single-Particle Trigger for Time-of-Flight Measurements in Prompt-Gamma Imaging. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	6
79	Towards real-time PGS range monitoring in proton therapy of prostate cancer. <i>Scientific Reports</i> , 2021, 11, 15331.	1.6	6
80	A direct time-of-flight reconstruction for whole-body single-bed RPC-PET: Results from lesion and anthropomorphic simulated data. , 2011, , .		5
81	Integration scenarios of virtual worlds in learning management systems using the MULTIS approach. <i>Personal and Ubiquitous Computing</i> , 2017, 21, 965-975.	1.9	3
82	Dose-free monitoring of radiotherapy treatments with scattered photons: First experimental results at a 6-MV Linac. , 2011, , .		1
83	Experimental sub-millimeter resolution with a small-animal RPC-PET prototype. , 2012, , .		1
84	On lesion detectability by means of 300ps-FWHM TOF whole-body RPC-PET: An experiment-based simulation study. , 2012, , .		1
85	Achieving 0.4-mm FWHM spatial resolution with an RPC-based small-animal PET prototype. , 2013, , .		1
86	An ultra-high resolution preclinical positron emission tomography scanner. , 2015, , .		0
87	Software for enhancing accessibility and fighting info-exclusion. <i>Universal Access in the Information Society</i> , 2015, 14, 1-3.	2.1	0
88	Dataset for predicting single-spot proton ranges in proton therapy of prostate cancer. <i>Scientific Data</i> , 2021, 8, 252.	2.4	0
89	VIC – An Interactive Video System for Dynamic Visualization in Web and Mobile Platforms. <i>Lecture Notes in Computer Science</i> , 2014, , 38-49.	1.0	0