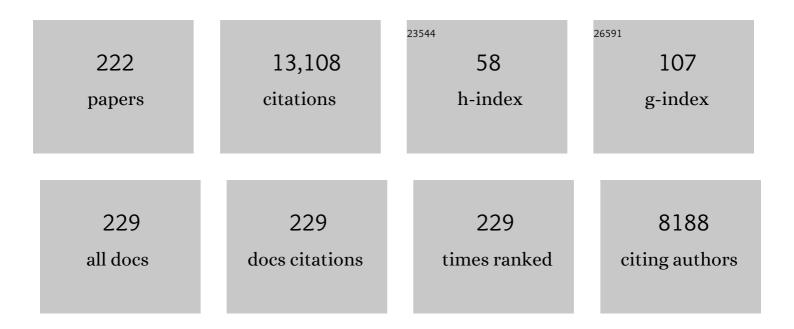
## Mauro Villa

List of Publications by Year in descending order

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ΜΑΠΒΟ ΜΗΤΑ

#	Article	IF	CITATION
1	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	1.4	1,187
2	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	1.4	489
3	Muon reconstruction performance of the ATLAS detector in proton–proton collision data at \$\$sqrt{s}\$\$ s =13ÂTeV. European Physical Journal C, 2016, 76, 292.	1.4	453
4	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	1.4	325
5	The new LUCID-2 detector for luminosity measurement and monitoring in ATLAS. Journal of Instrumentation, 2018, 13, P07017-P07017.	0.5	304
6	Performance of pile-up mitigation techniques for jets in \$\$pp\$\$ p p collisions at \$\$sqrt{s}=8\$\$. European Physical Journal C, 2016, 76, 581.	1.4	298
7	Luminosity determination in pp collisions at \$\$sqrt{s}\$\$ s = 8 TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653.	1.4	279
8	Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at \$\$sqrt{s}=7\$\$ s = 7 and 8ÂTeV in the ATLAS experiment. European Physical Journal C, 2016, 76, 6.	1.4	274
9	Jet energy measurement and its systematic uncertainty in proton–proton collisions at \$\$sqrt{s}=7\$\$ s = 7 ÂTeV with the ATLAS detector. European Physical Journal C, 2015, 75, 17.	1.4	268
10	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	1.4	259

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19	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	1.4	145
20	Precision measurement and interpretation of inclusive \$\$W^+\$\$ W + , \$\$W^-\$\$ W European Physical Journal C, 2017, 77, 367.	1.4	145
21	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. European Physical Journal C, 2015, 75, 510.	1.4	138
22	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	136
23	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton–proton collisions at \$\$sqrt{s}=13,ext {TeV}\$\$ s = 13 TeV. European Physical Journal C, 2018, 78, 199.	1.4	132
24	Measurement of the $Z\hat{I}^3$ * boson transverse momentum distribution in pp collisions at s = 7 \$\$ sqrt{s}=7 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	131
25	ATLAS b-jet identification performance and efficiency measurement with \$\$t{ar{t}}\$\$ events in pp collisions at \$\$sqrt{s}=13\$\$ÂTeV. European Physical Journal C, 2019, 79, 1.	1.4	130
26	Search for charged Higgs bosons decaying via H ± → ï"î½ in \$ toverline t \$ events using pp collision da sqrt {s} = 7;TeV \$ with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	ata at \$ 1.6	126
27	Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.	1.4	121
28			

#	Article	IF	CITATIONS
37	Search for the b b $\hat{A}^-$ \$\$ boverline{b} \$\$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	89
38	Jet mass and substructure of inclusive jets in \$ sqrt {s} = 7;{ext{TeV}} \$ pp collisions with the ATLAS experiment. Journal of High Energy Physics, 2012, 2012, 1.	1.6	88
39	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at \$\$sqrt{s}=13\$\$ TeV. European Physical Journal C, 2021, 81, 1.	1.4	82
40	ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at \$ sqrt{s}=7 \$TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	81
41	Search for dark matter at \$\$sqrt{s}=13~mathrm{TeV}\$\$ s = 13 TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. European Physical Journal C, 2017, 77, 393.	1.4	80
42	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton–proton collision data at \$\$sqrt{s} = 13\$\$Â\$\$ext {TeV}\$\$. European Physical Journal C, 2019, 79, 1.	1.4	77
43	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	1.4	75
44	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at \$sqrt{s}=7mbox{~TeV}\$ with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	73
45	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton–proton collisions at the LHC. European Physical Journal C, 2017, 77, 332.	1.4	71
46	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at \$\$sqrt{s}=8\$\$ s = 8 \$\$,hbox {TeV}\$\$ TeV. European Physical Journal C, 2015, 75, 303.	1.4	70
47	p̄p annihilation cross section at very low energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 369, 77-85.	1.5	66
48	A search for pair-produced resonances in four-jet final states at \$\$sqrt{s}=13\$\$ s = 13 \$\$ext {TeV}\$\$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 250.	1.4	66
49	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.	1.6	65
50	Kinematic distributions and nuclear effects of J/ï production inÂ920ÂGeV fixed-target proton-nucleus collisions. European Physical Journal C, 2009, 60, 525-542.	1.4	64
51	Measurement of the W → â,,"ν and Z/γ * → â,,"â,," production cross sections in proton-proton collisions at \$ = 7;{ext{TeV}} \$ with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1.	sqrt {s} 1.6	64
52	Measurement of isolated-photon pair production in pp collisions at \$ sqrt{s}=7;TeV \$ with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	64
53	Evidence for the H → b b Â <sup>-</sup> \$\$ Ho boverline{b} \$\$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	64
54	Jet energy scale and resolution measured in proton–proton collisions at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	64

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55	Readiness of the ATLAS liquid argon calorimeter forÂLHCÂcollisions. European Physical Journal C, 2010, 70, 723-753.	1.4	61
56	Prompt and non-prompt \$\$J/psi \$\$ J / Ï^ and \$\$psi (2mathrm {S})\$\$ Ï^ ( 2 S ) suppression at high transverse momentum in \$\$5.02~mathrm {TeV}\$\$ 5.02 TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	1.4	61
57	Search for dark matter produced in association with bottom or top quarks in \$\$sqrt{s}=13\$\$s=13ÂTeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 18.	1.4	60
58	Measurement of W ± Z production in proton-proton collisions at \$sqrt{s}=7~mbox{TeV}\$ with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	1.4	59
59	Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at \$ sqrt{s}=7 \$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	59
60	Measurement of the W boson polarization in top quark decays with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	57
61	Search for direct top squark pair production in events with a \$\$Z\$\$ Z boson, \$\$b\$\$ b -jets and missing transverse momentum in \$\$sqrt{s}=8\$\$ s = 8 TeV \$\$pp\$\$ p p collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 2883.	1.4	55
62	Search for pair production of Higgs bosons in the \$\$ boverline{b}boverline{b} \$\$ final state using proton-proton collisions at \$\$ sqrt{s}=13 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	55
63	Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	54
64	Search for high-mass resonances decaying to dilepton final states in pp collisions at \$ sqrt{s}=7 \$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	54
65	Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fbâ^1 of \$ sqrt {s} = 7;TeV \$ proton-proton collisions. Journal of High Energy Physics, 2012, 2012, 1.	1.6	53
66	Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at \$ sqrt{s}=7 \$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	52
67	Performance of jet substructure techniques for large-R jets in proton-proton collisions at \$ sqrt{s}=7 \$ TeV using the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	52
68	Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons. European Physical Journal C, 2010, 70, 755-785.	1.4	51
69	Measurement of the top quark mass with the template method in the \$tar{t} omathrm{lepton}+mathrm{jets}\$ channel using ATLAS data. European Physical Journal C, 2012, 72, 2046.	1.4	51
70	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295.	1.4	50
71	Search for direct top squark pair production in final states with two leptons in \$\$sqrt{s} = 13\$\$ s = 13 TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898.	1.4	50
72	Constraints on mediator-based dark matter and scalar dark energy models using \$\$ sqrt{s} \$\$ = 13 TeV pp collision data collected by the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	49

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73	Search for pair production of massive particles decaying into three quarks with the ATLAS detector in \$ sqrt{s}=7;mathrm{TeV} \$ pp collisions at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	48
74	Test of CP invariance in vector-boson fusion production of the Higgs boson using the Optimal Observable method in the ditau decay channel with the ATLAS detector. European Physical Journal C, 2016, 76, 658.	1.4	48
75	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fbâ^'1 of \$\$ sqrt{s}=13 \$\$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	48
76	Measurement of the Higgs boson coupling properties in the H → ZZâ^— → 4â"" decay channel at \$\$ sqrt{s}=1: TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	3 \$\$ 1.6	46
77	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. European Physical Journal C, 2019, 79, 1.	1.4	46
78	Search for charged Higgs bosons decaying into a top quark and a bottom quark at \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	46
79	Measurement of the cross section for top-quark pair production in pp collisions at \$sqrt {s} = {7},{ext{TeV}}\$ with the ATLAS detector using final states with two high-p T leptons. Journal of High Energy Physics, 2012, 2012, 1.	1.6	45
80	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 1.	1.4	45
81	Search for supersymmetry at \$sqrt{s}\$ = 8 TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	45
82	A Measurement of the Ï^′ to J/Ï^ production ratio in 920 GeV proton-nucleus interactions. European Physical Journal C, 2007, 49, 545-558.	1.4	43
83	Search for the Standard Model Higgs boson in the H → ï,, + ï,, â^' decay mode in \$ sqrt {s} = 7,{mathrm \$ pp collisions with ATLAS. Journal of High Energy Physics, 2012, 2012, 1.	1{TeV}}	43
84	Performance of top-quark and \$\$varvec{W}\$\$ W -boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1.	1.4	42
85	Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in \$sqrt{s}=7~mbox{TeV}\$ proton–proton collisions with the ATLAS experiment. European Physical Journal C, 2011, 71, 1.	1.4	41
86	Higgs boson production cross-section measurements and their EFT interpretation in the \$\$4ell \$\$ decay channel at \$\$sqrt{s}=\$\$13ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	41
87	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
88	A search for \$ toverline t \$ resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at \$ sqrt {s} = 7 \$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	40
89	Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fbâ^'1 of \$\$ sqrt{s}=13 \$\$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
90	Measurements of b-jet tagging efficiency with the ATLAS detector using \$\$ toverline{t} \$\$ events at \$\$ sqrt{s}=13 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40

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91	Search for heavy resonances decaying into a pair of Z bosons in the \$\$ell ^+ell ^-ell '^+ell '^-\$\$ and \$\$ell ^+ell ^-u {{ar{u }}}\$\$ final states using 139 \$\$mathrm {fb}^{-1}\$\$ of proton–proton collisions at \$\$sqrt{s} = 13,\$\$TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	40
92	Measurements of WH and ZH production in the \$\$H ightarrow bar{b}\$\$ decay channel in pp collisions at \$\$13,ext {Te}ext {V}\$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	38
93	Electron and photon energy calibration with the ATLAS detector using 2015–2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017.	0.5	37
94	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fbâ^1 of \$\$ sqrt{s} \$\$ = 13 TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	37
95	Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at \$ sqrt {s} = {7};{ext{TeV}} \$ with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	36
96	Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at \$sqrt{s} = 7 mbox{TeV}\$ with the ATLAS experiment. European Physical Journal C, 2012, 72, 1.	1.4	36
97	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in \$\$ sqrt{s} \$\$ = 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	36
98	Search for a scalar partner of the top quark in the all-hadronic \$\$t{ar{t}}\$\$ plus missing transverse momentum final state at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	36
99	Measurement of the inclusive jet cross-section in proton-proton collisions at s = 7 \$\$ sqrt{s}=7 \$\$ TeV using 4.5 fbâ^'1 of data with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	35
100	A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at \$ sqrt{s}=7;TeV \$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	34
101	Measurements of top-quark pair differential and double-differential cross-sections in the \$\$ell \$\$+jets channel with pp collisions at \$\$sqrt{s}=13\$\$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	34
102	Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in \$\$pp\$\$ collisions at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	34
103	Measurement of D0, D+, Ds + and D*+ production in fixed target 920 GeV proton–nucleus collisions. European Physical Journal C, 2007, 52, 531-542.	1.4	33
104	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
105	Angular distributions of leptons from J/ľˆâ€™s produced in 920ÂGeV fixed-target proton-nucleus collisions. European Physical Journal C, 2009, 60, 517-524.	1.4	32
106	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4\$\$ell \$\$ decay channel at \$\$sqrt{s}\$\$ = 13 TeV. European Physical Journal C, 2020, 80, 1.	1.4	32
107	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
108	Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in \$sqrt{s}=7 mathrm{TeV}\$ proton–proton collisions. European Physical Journal C, 2012, 72. 1.	1.4	31

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109	Measurement of inclusive and differential cross sections in the H → ZZ * → 4â,," decay channel in pp collisions at s = 13 \$\$ sqrt{s}=13 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
110	Search for W W/W Z resonance production in â,,"νqq final states in pp collisions at \$\$ sqrt{s}=13 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	31
111	Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at \$\$ sqrt{s}=13 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	30
112	Evidence for \$\$tar{t}tar{t}\$\$ production in the multilepton final state in proton–proton collisions at \$\$sqrt{s}=13\$\$Â\$\$ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	30
113	Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	29
114	A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 pp-collision data with the ATLAS detector. European Physical Journal C, 2017, 77, 26.	1.4	29
115	Search for heavy diboson resonances in semileptonic final states in pp collisions at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	29
116	K*O and φ meson production in proton–nucleus interactions at \$sqrt{s}=41.6ext{GeV}\$. European Physical Journal C, 2007, 50, 315-328.	1.4	28
117	Measurement of the Drell-Yan triple-differential cross section in pp collisions at s = 8 \$\$ sqrt{s}=8 \$\$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	28
118	Search for chargino–neutralino pair production in final states with three leptons and missing transverse momentum in \$\$sqrt{s} = 13\$\$ÂTeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	28
119	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a Ï"-lepton in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
120	Measurements of electroweak \$\$Wjj \$\$ W j j production and constraints on anomalous gauge couplings with the ATLAS detector. European Physical Journal C, 2017, 77, 474.	1.4	26
121	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the \$\$ell ell bb\$\$ and \$\$ell ell WW\$\$ final states in pp collisions at \$\$sqrt{s}=13\$\$Â\$\$ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	26
122	A search for \$tar{t}\$ resonances with the ATLAS detector in 2.05 fbâ^'1 of proton-proton collisions at \$sqrt{s} = 7~mathrm{TeV}\$. European Physical Journal C, 2012, 72, 2083.	1.4	25
123	Measurement of the cross-section and charge asymmetry of W bosons produced in proton–proton collisions at \$\$sqrt{s}=8~ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	24
124	Measurement of fiducial and differential $W^+W^-$ production cross-sections at $\starts^{-13}$	1.4	24
125	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	24
126	Commissioning of the ATLAS Muon Spectrometer withÂcosmicÂrays. European Physical Journal C, 2010, 70, 875-916.	1.4	23

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127	Measurement of the inclusive jet cross-sections in proton-proton collisions at s = 8 \$\$ sqrt{s}=8 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
128	Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	23
129	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	1.3	23
130	Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at \$sqrt{mathbf{s}}=7 mathrm{TeV}\$. European Physical Journal C, 2012, 72, 1.	1.4	22
131	Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at \$ sqrt{s} \$ = 8 TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	22
132	Measurements of top-quark pair spin correlations in the \$\$emu \$\$ channel at \$\$sqrt{s} = 13\$\$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	22
133	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1 Production of the charmonium states <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>1.6</td><td>22</td></mml:math>	1.6	22
134	display= inine > <mm:msub><mm:mi>i+</mm:mi><mm:mrow><mm:mi>c</mm:mi>c<mm:mrow><mm:mi>c</mm:mi>cc</mm:mrow></mm:mrow></mm:msub>		
135	display="inline"> <mml:. .<br="" 2009,="" 79,="" d,="" physical="" review="">Measurement of Ï., polarization in Wâ†'Ï.,ν decays with the ATLAS detector in pp collisions at \$sqrt{s} =7~mathrm{TeV}\$. European Physical Journal C, 2012, 72, 2062.</mml:.>	1.4	21
136	The performance of the jet trigger for the ATLAS detector during 2011 data taking. European Physical Journal C, 2016, 76, 526.	1.4	21
137	Search for the Standard Model Higgs boson decaying into b b Â <sup>-</sup> \$\$ boverline{b} \$\$ produced in association with top quarks decaying hadronically in pp collisions at s = 8 \$\$ sqrt{s}=8 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	21
138	Measurement of differential cross-sections of a single top quark produced in association with a W boson at \$\$sqrt{s}={13}{ext {TeV}}\$\$ s = 13 TeV with ATLAS. European Physical Journal C, 2018, 78, 186.	1.4	20
139	Measurement of k T splitting scales in W→ℓν events at \$sqrt{s} = 7 mathrm{TeV}\$ with the ATLAS detector. European Physical Journal C, 2013, 73, 2432.	1.4	19
140	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fbâ^'1 of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	19
141	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nbâ^'1 of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	19
142	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
143	Search for dark matter in association with an energetic photon in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	18
144	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton–proton collisions at \$\$sqrt{s}\$\$ = 13ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	18

#	Article	IF	CITATIONS
145	Search for new phenomena in final states with b-jets and missing transverse momentum in \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	18
146	Studies of the performance of the ATLAS detector using cosmic-ray muons. European Physical Journal C, 2011, 71, 1.	1.4	17
147	Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at \$\$ sqrt{s}=13 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
148	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, 1.	1.6	17
149	Search for the HH → \$\$ boverline{b}boverline{b} \$\$ process via vector-boson fusion production using proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	17
150	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at \$\$ sqrt{s} = 13,{ext {TeV}} \$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	17
151	Measurement of differential cross sections and W+/Wâ^' cross-section ratios for W boson production in association with jets at \$\$ sqrt{s}=8 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	16
152	Measurements of the pseudorapidity dependence of the total transverse energy in proton-proton collisions at \$ sqrt{s}=7 \$ TeV with ATLAS. Journal of High Energy Physics, 2012, 2012, 1.	1.6	15
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