

James Catmore

List of Publications by Year in descending order

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Version: 2024-02-01

437
papers

21,818
citations

10986

71
h-index

18130

120
g-index

464
all docs

464
docs citations

464
times ranked

9456
citing authors

#	ARTICLE	IF	CITATIONS
1	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	3.9	1,187
2	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	3.9	489
3	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 292.	3.9	453
4	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	3.9	325
5	Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 581.	3.9	298
6	Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653.	3.9	279
7	Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s} = 7$ and 8 TeV in the ATLAS experiment. European Physical Journal C, 2016, 76, 6.	3.9	274
8	Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 17.	3.9	268
9	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	3.9	259
10	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. European Physical Journal C, 2012, 72, 1.	3.9	248
11	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 299.	3.9	238
12			

#	ARTICLE	IF	CITATIONS
19	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1.	3.9	172
20	Search for new high-mass phenomena in the dilepton final state using 36 fb ⁻¹ of proton-proton collision data at s = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	168
21	Measurement of the transverse momentum and ϕ^*_{η} distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 291.	3.9	154
22	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.	3.9	146
23	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	145
24	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	3.9	145
25	Precision measurement and interpretation of inclusive W^+W^- , W^+W^+ . European Physical Journal C, 2017, 77, 367.	3.9	145
26	Measurement of the $t\bar{t}\bar{A}^-$ production cross-section using $e\bar{e}\gamma$ events with b -tagged jets in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109.	3.9	143
27	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.	4.7	136
28	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 199.	3.9	132
29	Measurement of the Z/\bar{A}^0 boson transverse momentum distribution in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	131
30	ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	130
31	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using s = 8 TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.	4.7	128
32	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995.	3.9	125
33	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	124
34	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $\bar{b}b\bar{A}^-$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349.	3.9	123
35	Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	116
36	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb ⁻¹ of pp collisions at s = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	116

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37	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=8, \sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 538.	3.9	115
38	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.	3.9	114
39	Searches for scalar leptoquarks in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 5.	3.9	109
40	Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	108
41	Search for heavy resonances decaying into WW in the $e^+e^- \mu^+\mu^-$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.	3.9	108
42	Search for heavy ZZ resonances in the $e^+e^- \mu^+\mu^-$ final states using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	3.9	101
43	Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	100
44	Constraints on the off-shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector. European Physical Journal C, 2015, 75, 335.	3.9	95
45	Search for new phenomena in events with at least three photons collected in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 210.	3.9	95
46	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	3.9	93
47	Measurements of the WW production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82.	3.9	92
48	Search for Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state from pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412.	3.9	90
49	Search for the $b\bar{b}H$ 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.	4.7	89
50	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	88
51	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	3.9	87
52	Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	3.9	86
53	Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	84
54	Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	82

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55	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.	3.9	82
56	Measurement of the prompt J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76.	3.9	81
57	Search for dark matter at $\sqrt{s}=13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. European Physical Journal C, 2017, 77, 393.	3.9	80
58	Search for production of WW/WZ resonances decaying to a lepton, neutrino and jets in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 209.	3.9	79
59	Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. European Physical Journal C, 2017, 77, 70.	3.9	79
60	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 565.	3.9	79
61	Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-39.	4.7	78
62	Light-quark and gluon jet discrimination in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3023.	3.9	77
63	Search for dark matter in events with heavy quarks and missing transverse momentum in pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 92.	3.9	77
64	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	77
65	Angular analysis of $B_0 \rightarrow \tau^+ \tau^-$ decays in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	76
66	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	3.9	75
67	Measurement of quarkonium production in proton-lead and proton-proton collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.	3.9	75
68	Search for resonant diboson production in the $\ell\ell q\bar{q}$ final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69.	3.9	74
69	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
70	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. European Physical Journal C, 2016, 76, 666.	3.9	73
71	Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 392.	3.9	73
72	Search for supersymmetry at $\sqrt{s}=13$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. European Physical Journal C, 2016, 76, 259.	3.9	72

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73	Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	71
74	Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	71
75	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. European Physical Journal C, 2017, 77, 332.	3.9	71
76	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 303.	3.9	70
77	Search for resonances in diphoton events at $s = 13 \sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	70
78	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \nu_\tau, \tau^\pm \nu_\tau$ in fully hadronic final states using pp collision data at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	69
79	Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2014, 74, 3157.	3.9	68
80	Search for new resonances in mass distributions of jet pairs using 139 fb^{-1} of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	68
81	Measurement of charged-particle spectra in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	4.7	67
82	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	3.9	67
83	Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	67
84	Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $s = 8 \sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	66
85	A search for $t \bar{t} \rightarrow \text{lepton} + \text{jets}$ resonances using lepton-plus-jets events in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	66
86	A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 250.	3.9	66
87	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 7 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	65
88	Measurement of the $W \rightarrow \tau \nu_\tau, \tau^\pm \nu_\tau$ and $Z \rightarrow \tau^+ \tau^-$ production cross sections in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1.	4.7	64
89	Observation and measurements of the production of prompt and non-prompt J/ψ mesons in association with a Z boson in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 229.	3.9	64
90	Evidence for the $H \rightarrow b \bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	64

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91	Jet energy scale and resolution measured in proton–proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	64
92	Measurement of the differential cross-sections of prompt and non-prompt production of J/ψ and $\psi(2S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 283.	3.9	63
93	Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s}=8\text{ TeV}$. <i>European Physical Journal C</i> , 2015, 75, 120.	3.9	62
94	Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at $\sqrt{s} = 8\text{ TeV}$. <i>European Physical Journal C</i> , 2016, 76, 154.	3.9	62
95	Charged-particle distributions at low transverse momentum in $\sqrt{s} = 13\text{ TeV}$ pp interactions measured with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016, 76, 502.	3.9	61
96	Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s}=8\text{ TeV}$ proton–proton collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 241.	3.9	61
97	Prompt and non-prompt J/ψ and $\psi(2S)$ suppression at high transverse momentum in 5.02 TeV Pb+Pb collisions with the ATLAS experiment. <i>European Physical Journal C</i> , 2018, 78, 762.	3.9	61
98	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 58.	3.9	61
99	Measurement of multi-jet cross sections in proton–proton collisions at a 7 TeV center-of-mass energy. <i>European Physical Journal C</i> , 2011, 71, 1.	3.9	60
100	Summary of the searches for squarks and gluinos using $\sqrt{s}=8\text{ TeV}$ pp collisions with the ATLAS experiment at the LHC. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	60
101	Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $\sqrt{s}=8\text{ TeV}$ pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	60
102	Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $u\bar{u} + b\bar{b}$, $u\bar{u} + \bar{u}u$, $\bar{t}\bar{t} + b\bar{b}$ final states with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 263.	3.9	60
103	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton–lead collisions at $\sqrt{s_{NN}} = 5.02\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 199.	3.9	60
104	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 18.	3.9	60
105	Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s} = 7\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	59
106	Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s} = 8\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	59
107	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ and 5.0 TeV . <i>European Physical Journal C</i> , 2018, 78, 142.	3.9	59
108	Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau^{\pm} \bar{\nu}_{\tau}$, in the $\tau^{\pm} + \text{jets}$ and $\tau^{\pm} + \text{lepton}$ final states with 36 fb^{-1} of pp collision data recorded at $\sqrt{s}=13\text{ TeV}$ with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	59

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109	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. <i>European Physical Journal C</i> , 2011, 71, 1.	3.9	56
110	Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 318.	3.9	56
111	Fiducial, total and differential cross-section measurements of t-channel single top-quark production in pp collisions at 8 TeV using data collected by the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 531.	3.9	56
112	Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	56
113	Search for direct top squark pair production in events with a Z boson, b-jets and missing transverse momentum in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2014, 74, 2883.	3.9	55
114	Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 interpreted in the phenomenological MSSM. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	55
115	Search for pair production of Higgs bosons in the $b\bar{b}$ final state using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	55
116	Measurements of fiducial cross-sections for $t\bar{t}$ production with one or two additional b-jets in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 11.	3.9	54
117	Search for Higgs boson pair production in the $\gamma\gamma WW^*W^*$ channel using pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 1007.	3.9	53
118	Performance of jet substructure techniques for large-R jets in proton-proton collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	52
119	Search for lepton-flavour-violating $H \rightarrow \tau\mu$, decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	52
120	Measurement of the top quark mass in the $t \rightarrow \text{lepton} + \text{jets}$ and $t \rightarrow \text{dilepton}$ channels using $\sqrt{s}=7$ TeV ATLAS data. <i>European Physical Journal C</i> , 2015, 75, 330.	3.9	52
121	Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 154.	3.9	52
122	Search for minimal supersymmetric standard model Higgs Bosons H/A and for a Z^{\prime} boson in the $\mu\mu, \tau\tau$ final state produced in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 585.	3.9	51
123	Measurement of the charged-particle multiplicity inside jets from $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 322.	3.9	51
124	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>European Physical Journal C</i> , 2017, 77, 379.	3.9	51
125	Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{NN}}=5.02$ TeV Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 997.	3.9	51
126	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. <i>European Physical Journal C</i> , 2016, 76, 295.	3.9	50

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127	Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898.	3.9	50
128	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb^{-1} of pp collisions at. European Physical Journal C, 2018, 78, 401.	3.9	50
129	Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	50
130	Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	49
131	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.	4.7	49
132	Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3134.	3.9	48
133	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.	3.9	48
134	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	48
135	Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	47
136	Measurements of the production cross section of a Z boson in association with jets in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 361.	3.9	47
137	Measurement of the top quark mass in the $t \rightarrow t \bar{t}$. European Physical Journal C, 2019, 79, 1.	3.9	47
138	Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3195.	3.9	46
139	Study of the rare decays of $B^0 \rightarrow B^0 s$ and $B^0 \rightarrow B^0$ into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. European Physical Journal C, 2016, 76, 513.	3.9	46
140	Measurement of the Higgs boson coupling properties in the $H \rightarrow Z \gamma \gamma$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	46
141	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.	3.9	46
142	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	46
143	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 1.	3.9	45
144	Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at $\sqrt{s} = 8$ TeV with ATLAS. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45

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145	Measurement of differential production cross-sections for a Z boson in association with b-jets in 7 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45
146	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.	4.7	45
147	Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45
148	Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $s = 13 \sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	45
149	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $s = 8 \sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	44
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151	Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 8 \sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 442.	3.9	43
152	Search for single top-quark production via flavour-changing neutral currents at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 55.	3.9	43
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155	Two-particle Bose-Einstein correlations in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV measured with the ATLAS detector. European Physical Journal C, 2015, 75, 466.	3.9	42
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157	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.	3.9	41
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162	Higgs boson production cross-section measurements and their EFT interpretation in the $h \rightarrow \tau\tau$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	41

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165	Search for the direct production of charginos, neutralinos and staus in final states with at least two hadronically decaying taus and missing transverse momentum in pp collisions at $s = 8 \sqrt{s}=8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	40
166	Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at $s = 7 \sqrt{s}=7 \text{ TeV}$ in the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	40
167	Study of the $B_c^+ \rightarrow J/\psi D_s^+ B_c + \hat{t}^* J/\hat{t} D_s +$ and $B_c^+ \rightarrow J/\psi D_s^+ \hat{t}^* B_c + \hat{t}^* J/\hat{t} D_s +$ decays with the ATLAS detector. European Physical Journal C, 2016, 76, 4.	3.9	40
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170	Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- \gamma \gamma$ final states using 139 fb^{-1} of proton-proton collisions at $\sqrt{s} = 13, \text{TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	40
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172	Search for flavour-changing neutral current top-quark decays to $q Z$ in pp collision data collected with the ATLAS detector at $\sqrt{s}=8 \text{ TeV}$. European Physical Journal C, 2016, 76, 12.	3.9	39
173	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s}=8, \text{TeV}$ s = 8 TeV. European Physical Journal C, 2016, 76, 87.	3.9	39
174	Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	39
175	Search for strong production of supersymmetric particles in final states with missing transverse momentum and at least three b-jets at $s = 8 \sqrt{s} = 8 \text{ TeV}$ proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	38
176	Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $s = 8 \sqrt{s}=8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	38
177	Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $s = 13 \sqrt{s}=13 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	38
178	Search for Higgs boson pair production in the $\gamma\gamma b\bar{b}$ final state with 13 TeV pp collision data collected by the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
179	Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at $\sqrt{s}=13, \text{TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	38
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182	Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	37
183	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb ⁻¹ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	37
184	Measurement of dijet cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	36
185	Search for heavy lepton resonances decaying to a Z boson and a lepton in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	36
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189	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.	4.7	36
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193	Measurement of the inclusive jet cross-section in proton-proton collisions at $\sqrt{s} = 7$ TeV using 4.5 fb ⁻¹ of data with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	35
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198	Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	33

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200	Measurements of $\tilde{\chi}(2S)$ and $\chi(3872) \rightarrow J/\psi + \tilde{\chi}^0$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	33
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205	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.	3.9	31
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208	Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
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211	Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	31
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219	Searches for third-generation scalar leptoquarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	30
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223	Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
224	Searches for heavy ZZ and ZW resonances in the $\tilde{a}, \tilde{a}, q\bar{q}$ and $\tilde{1}/2\tilde{1}/2q\bar{q}$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
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254	Measurement of fiducial and differential W^+W^- production cross-sections at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	24
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257	Measurement of the underlying event in jet events from 7 TeV proton–proton collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 1.	3.9	23
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270	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	22

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272	Determination of spin and parity of the Higgs boson in the $WW \rightarrow e \mu \nu e \mu \nu$ decay channel with the ATLAS detector. European Physical Journal C, 2015, 75, 231.	3.9	21
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275	Search for Higgs boson pair production in the $WW \rightarrow WW$ decay channel using ATLAS data recorded at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	21
276	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, .	3.9	21
277	Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV and decaying into collimated leptons or light hadrons with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	21
278	Search for new phenomena in events with three or more charged leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	20
279	Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	20
280	Measurements of top quark spin observables in $t\bar{t}$ events using dilepton final states in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	20
281	Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s} = 13$ TeV with ATLAS. European Physical Journal C, 2018, 78, 186.	3.9	20
282	Search for diboson resonances in hadronic final states in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	20
283	Measurement of k_T splitting scales in $W\tau^+\tau^-$ events at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2013, 73, 2432.	3.9	19
284	Search for flavour-changing neutral current top quark decays $t \rightarrow Hq$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-65.	4.7	19
285	Addendum to "Measurement of the $t\bar{t}$ production cross-section using $e\mu$ events with b-tagged jets in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector". European Physical Journal C, 2016, 76, 1.	3.9	19
286	Search for the production of single vector-like and excited quarks in the Wt final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
287	Probing lepton flavour violation via neutrinoless $\nu\bar{\nu} \rightarrow 3\mu$, $\nu\bar{\nu} \rightarrow 3e$ decays with the ATLAS detector. European Physical Journal C, 2016, 76, 232.	3.9	19
288	Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. European Physical Journal C, 2017, 77, 765.	3.9	19

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290	Search for top-quark decays $t \rightarrow Hq$ with 36 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	19
291	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb^{-1} of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	19
292	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb^{-1} of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	19
293	Performance of the ATLAS detector using first collision data. Journal of High Energy Physics, 2010, 2010, 1.	4.7	18
294	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
295	Search for top quark decays $t \rightarrow qH$, with $H \rightarrow \tau\tau$, in $s = 13$ TeV pp collisions using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	18
296	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.	4.7	18
297	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	18
298	Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
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301	Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 158.	3.9	17
302	Identification of high transverse momentum top quarks in pp collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
303	Probing the Wtb vertex structure in t-channel single-top-quark production and decay in pp collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
304	Search for supersymmetry in events with b-tagged jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
305	Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $s = 13$ TeV with ATLAS. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
306	Direct top-quark decay width measurement in the $t \rightarrow \tau \nu_{\tau}$ lepton+jets channel at $\sqrt{s} = 8$ TeV with the ATLAS experiment. European Physical Journal C, 2018, 78, 129.	3.9	17

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308	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.	4.7	17
309	Measurements of W and Z boson production in pp collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	17
310	Measurement of W^{\pm} boson production in Pb+Pb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	17
311	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, 1.	4.7	17
312	Search for the $HH \rightarrow b\bar{b}$ 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.	4.7	17
313	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	17
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316	Top-quark mass measurement in the all-hadronic $t\bar{t} \rightarrow t\bar{t}$ decay channel at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	16
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318	Search for exclusive Higgs and Z boson decays to $\tau^+\tau^-$ and $\tau^+\tau^-$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
319	Measurement of differential cross sections and W^+/W^{\pm} 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.	4.7	16
320	Search for diphoton events with large missing transverse energy with 36 pb $^{-1}$ of 7 TeV proton-proton collision data with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	15
321	Measurement of event-shape observables in $Z \rightarrow e^+e^-$ events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 375.	3.9	15
322	Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW \rightarrow e^+\nu_e\mu^+\nu_\mu$ with the ATLAS detector at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
323	Search for strong gravity in multijet final states produced in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector at the LHC. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
324	Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	15

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326	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1.	3.9	15
327	Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	15
328	Search for a heavy neutral particle decaying into an electron and a muon using 1 fb ⁻¹ of ATLAS data. European Physical Journal C, 2011, 71, 1.	3.9	14
329	A search for top squarks with R-parity-violating decays to all-hadronic final states with the ATLAS detector in $s = 8$ TeV proton-proton collisions. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
330	Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
331	Measurement of charged-particle distributions sensitive to the underlying event in $s = 13$ TeV proton-proton collisions with the ATLAS detector at the LHC. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
332	Studies of $Z\bar{1}3$ production in association with a high-mass dijet system in pp collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
333	Measurement of $VH, \text{H}o\overline{\text{b}}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
334	Measurements of inclusive and differential fiducial cross-sections of $\text{Star}\{\text{t}\}\gamma$ production in leptonic final states at $\sqrt{s}=13$ TeV in ATLAS. European Physical Journal C, 2019, 79, 1.	3.9	14
335	Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
336	Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
337	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 1.	3.9	14
338	Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
339	Search for $\overline{\text{t}}$ resonances in fully hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
340	Measurement of the c-jet mistagging efficiency in $\text{Star}\{\text{t}\}$ events using pp collision data at $\sqrt{s}=13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	14
341	Search for lepton flavour violation in the $e\bar{1}/4$ continuum with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC. European Physical Journal C, 2012, 72, 2040.	3.9	13
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345	Measurements of top-quark pair to Z-boson cross-section ratios at $\sqrt{s}=13, 8, 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	13
346	Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at \sqrt{s} s. European Physical Journal C, 2018, 78, 102.	3.9	13
347	Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
348	Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	13
349	Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb^{-1} of $\sqrt{s} = 8$ TeV proton-proton collision data with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	12
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351	Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 144.	3.9	12
352	Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $\sqrt{s}=13$ TeV proton-proton collision data. Journal of High Energy Physics, 2017, 2017, 1.	4.7	12
353	Observation of the associated production of a top quark and a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
354	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
355	Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s} = 8.16$ TeV $p+Pb$ collisions with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	12
356	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. European Physical Journal C, 2021, 81, 1.	3.9	12
357	Search for supersymmetry in events with four or more charged leptons in 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
358	Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	12
359	Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
360	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	3.9	12

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362	Measurement of $W\bar{1}^3$ and $Z\bar{1}^3$ production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	11
363	Measurement of four-jet differential cross sections in $\sqrt{s} = 8 \text{ TeV}$ proton-proton collisions using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-76.	4.7	11
364	Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ recorded with the ATLAS detector. European Physical Journal C, 2016, 76, 683.	3.9	11
365	Measurement of jet activity produced in top-quark events with an electron, a muon and two b-tagged jets in the final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2017, 77, 220.	3.9	11
366	Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
367	Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
368	Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	10
369	Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	10
370	Search for direct top squark pair production in final states with two tau leptons in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 81.	3.9	10
371	Measurement of the $Z\gamma \rightarrow u\bar{u}$ production cross section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector and limits on anomalous triple gauge-boson couplings. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
372	Measurement of the inclusive and fiducial $\sigma(t\bar{t})$ production cross-sections in the. European Physical Journal C, 2018, 78, 487.	3.9	10
373	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W\bar{1}$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
374	Measurement of J/ψ production in association with a $W\bar{1}$ boson with pp data at 8 TeV . Journal of High Energy Physics, 2020, 2020, 1.	4.7	10
375	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
376	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb^{-1} of pp collision data at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
377	Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
378	A new method to distinguish hadronically decaying boosted Z bosons from W bosons using the ATLAS detector. European Physical Journal C, 2016, 76, 238.	3.9	9

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379	Measurement of the $\overline{t}\gamma$ production cross section in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	9
380	Measurements of charge and CP asymmetries in b-hadron decays using top-quark events collected by the ATLAS detector in pp collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	9
381	Measurement of the ZZ production cross section in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV using the ZZ $\hat{a}^+ \hat{a}^-$, $\hat{a}^+ \hat{a}^+$, $\hat{a}^- \hat{a}^-$ and ZZ $\hat{a}^+ \hat{a}^-$, $\hat{a}^+ \hat{a}^+$, $\hat{a}^- \hat{a}^-$ decay channels with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.		
382	Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
383	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	9
384	Measurement of the $Z(\hat{a}^+ \hat{a}^-)$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	9
385	Search for dark matter produced in association with a single top quark in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	9
386	Measurement of the relative width difference of the $B^0 \hat{a}^- B^+ \hat{a}^0$ system with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8
387	Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in $s = 13 \sqrt{s}=13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
388	Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
389	Analysis of the Wtb vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the t-channel at $s = 8 \sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
390	Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	8
391	Measurement of W^{\pm} -boson and Z-boson production cross-sections in pp collisions at $\sqrt{s}=2.76$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	8
392	Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
393	Measurements of $W+W^{\pm} + \text{1 jet}$ production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
394	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
395	Reconstruction and identification of boosted $d\bar{t}$ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
396	Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at 13 TeV with the ATLAS detector. European Physical Journal C, 2022, 82, 1.	3.9	8

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397	Measurement of $\sigma_{\text{au}}^{\text{Z}}(\sqrt{s})$, polarisation in $\text{Z}/\gamma \rightarrow \text{au au}$ Z/γ . European Physical Journal C, 2018, 78, 163.	3.9	7
398	Search for dijet resonances in events with an isolated charged lepton using $\sqrt{s} = 13$ TeV proton-proton collision data collected by the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	7
399	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\sqrt{s} = 13$ TeV proton-proton collision data. European Physical Journal C, 2021, 81, 1.	3.9	7
400	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	3.9	7
401	Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	7
402	Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ and 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
403	Measurement of ZZ production in the $\gamma\gamma, \gamma\gamma, \gamma\gamma/2$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
404	Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	6
405	Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.	3.9	6
406	Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at $\sqrt{s} = 8$ and 13 TeV. European Physical Journal C, 2020, 80, 1.	3.9	5
407	A search for the decays of stopped long-lived particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
408	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. European Physical Journal C, 2021, 81, 1.	3.9	5
409	Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb ⁻¹ of ATLAS data. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
410	The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1.	3.9	5
411	Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	4
412	Measurement of jet activity in top quark events using the $e\gamma$ final state with two b-tagged jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	4
413	Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment at the LHC. European Physical Journal C, 2019, 79, .	3.9	4
414	Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4

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415	Measurement of hadronic event shapes in high-pT multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
416	Search for top squarks in events with a Higgs or Z boson using 139 fb^{-1} of pp collision data at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	4
417	Measurement of S^0 and Λ^0 production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	4
418	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow u^{\pm} \bar{u}^{\pm} (\rightarrow \pi^{\pm} u_{\pm}) u_{\pm}$ events in Run 2 data. European Physical Journal C, 2022, 82, 1.	3.9	4
419	Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
420	Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
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