

# Siyuan Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

388  
papers

17,130  
citations

14644

66  
h-index

29127

104  
g-index

415  
all docs

415  
docs citations

415  
times ranked

9120  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	1.4	489
2	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 292.	1.4	453
3	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	1.4	325
4	Performance of pile-up mitigation techniques for jets in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 581.	1.4	298
5	Luminosity determination in $pp$ collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653.	1.4	279
6	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.	1.4	274
7	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.	1.4	238
8	Measurement of the $W$ -boson mass in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 110.	1.4	218
9	Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. European Physical Journal C, 2014, 74, 3130.	1.4	213
10	Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ$ decay channel at $\sqrt{s} = 8$ TeV in $pp$ collision data with the ATLAS detector. European Physical Journal C, 2016, 76, 45.	1.4	197
11	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 903.	1.4	181
12	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. European Physical Journal C, 2015, 75, 476.	1.4	174
13	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1.	1.4	172
14	Search for new high-mass phenomena in the dilepton final state using $36 \text{ fb}^{-1}$ of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	168
15	Measurement of the transverse momentum and $\phi_{\eta}$ 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.	1.4	154
16	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	1.4	145
17	Precision measurement and interpretation of inclusive $W^+W^-$ , $W^+W^+$ , $W^-W^-$ . European Physical Journal C, 2017, 77, 367.	1.4	145
18	Measurement of the $t\bar{t}$ production cross-section using $36 \text{ fb}^{-1}$ 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.	1.4	143

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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.	1.4	132
22	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.	1.4	130
23	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.	1.4	125
24	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.	1.4	124
25	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349.	1.4	123
26	Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	116
27	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb <sup>-1</sup> of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	116
28	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 538.	1.4	115
29	Searches for scalar leptoquarks in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 5.	1.4	109
30	Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	108
31	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.	1.4	108
32	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.	1.4	101
33	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.	1.4	95
34	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.	1.4	95
35	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	93
36	Measurements of the WW production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82.	1.4	92

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37	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.	1.4	90
38	Search for the $b\bar{b}\bar{b}$ 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
39	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	1.4	87
40	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.	1.4	86
41	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.	1.6	84
42	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.	1.6	82
43	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
44	Measurement of the prompt $J/\psi$ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76.	1.4	81
45	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.	1.4	80
46	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.	1.4	79
47	Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. European Physical Journal C, 2017, 77, 70.	1.4	79
48	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.	1.6	78
49	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.	1.4	77
50	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.	1.4	77
51	Angular analysis of $B_0 \rightarrow K^* \ell^+ \ell^-$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	76
52	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	1.4	75
53	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.	1.4	75
54	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.	1.4	74

#	ARTICLE	IF	CITATIONS
55	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. European Physical Journal C, 2016, 76, 666.	1.4	73
56	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.	1.4	73
57	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.	1.4	72
58	Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	71
59	Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	71
60	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
61	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 303.	1.4	70
62	Search for resonances in diphoton events at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	70
63	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \nu_\tau$ , $H \rightarrow b \bar{c}$ in fully hadronic final states using pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	69
64	Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3157.	1.4	68
65	Search for new resonances in mass distributions of jet pairs using 139 fb <sup>-1</sup> of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	68
66	Measurement of charged-particle spectra in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	1.6	67
67	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	1.4	67
68	Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	67
69	Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	66
70	A search for $t \bar{t}$ resonances using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	66
71	A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 250.	1.4	66
72	Observation and measurements of the production of prompt and non-prompt $\Upsilon$ mesons in association with a Z boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 229.	1.4	64

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73	Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	64
74	Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	64
75	Measurement of the differential cross-sections of prompt and non-prompt production of $J/\psi$ and $\psi(2S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283.	1.4	63
76	Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 120.	1.4	62
77	Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 154.	1.4	62
78	Charged-particle distributions at low transverse momentum in $\sqrt{s} = 13$ TeV pp interactions measured with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 502.	1.4	61
79	Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s}=8$ TeV proton-proton collisions in the ATLAS detector. European Physical Journal C, 2017, 77, 241.	1.4	61
80	Prompt and non-prompt $J/\psi$ and $\psi(2S)$ suppression at high transverse momentum in $\sqrt{s}=5.02$ TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	1.4	61
81	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58.	1.4	61
82	Summary of the searches for squarks and gluinos using $\sqrt{s}=8$ TeV pp collisions with the ATLAS experiment at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	1.6	60
83	Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $\sqrt{s}=8$ TeV pp collisions using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	60
84	Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $u\bar{u} + b\bar{b}$ final states with the ATLAS detector. European Physical Journal C, 2015, 75, 263.	1.4	60
85	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 18.	1.4	60
86	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ and 5.0 TeV. European Physical Journal C, 2018, 78, 142.	1.4	59
87	Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ , in the $\tau^{\pm} + \text{jets}$ and $\tau^{\pm} + \text{lepton}$ final states with 36 fb <sup>-1</sup> of pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	1.6	59
88	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. European Physical Journal C, 2015, 75, 318.	1.4	56
89	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. European Physical Journal C, 2017, 77, 531.	1.4	56
90	Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	56

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91	Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 interpreted in the phenomenological MSSM. Journal of High Energy Physics, 2015, 2015, 1.	1.6	55
92	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. Journal of High Energy Physics, 2019, 2019, 1.	1.6	55
93	Measurements of fiducial cross-sections for $t\bar{t}\hat{A}$ production with one or two additional b-jets in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 11.	1.4	54
94	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. European Physical Journal C, 2018, 78, 1007.	1.4	53
95	Search for lepton-flavour-violating $H\rightarrow\tau\mu$ , decays of the Higgs boson with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	52
96	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. European Physical Journal C, 2015, 75, 330.	1.4	52
97	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. European Physical Journal C, 2018, 78, 154.	1.4	52
98	Search for minimal supersymmetric standard model Higgs Bosons $H/A$ and for a $Z^{\prime}$ boson in the $\text{au au}$ , $\tau\tau$ , final state produced in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 585.	1.4	51
99	Measurement of the charged-particle multiplicity inside jets from $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2016, 76, 322.	1.4	51
100	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. European Physical Journal C, 2017, 77, 379.	1.4	51
101	Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{\text{NN}}}=5.02$ TeV Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 997.	1.4	51
102	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295.	1.4	50
103	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.	1.4	50
104	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in $36\text{ fb}^{-1}$ of pp collisions at. European Physical Journal C, 2018, 78, 401.	1.4	50
105	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.	1.6	50
106	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.	1.6	49
107	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
108	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.	1.4	48

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109	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. <i>European Physical Journal C</i> , 2016, 76, 658.	1.4	48
110	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb <sup>-1</sup> of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	48
111	Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	47
112	Measurements of the production cross section of a Z boson in association with jets in pp collisions at $\sqrt{s}=13$ s. <i>European Physical Journal C</i> , 2017, 77, 361.	1.4	47
113	Measurement of the top quark mass in the $\text{Star}\{t\} \rightarrow t \bar{t} \hat{A}^+$ . <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	47
114	Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at $\sqrt{s}=7$ s = 7 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014, 74, 3195.	1.4	46
115	Study of the rare decays of $B^0_s \rightarrow B^0$ and $B^0 \rightarrow B^0$ into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 513.	1.4	46
116	Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ \rightarrow 4\mu$ decay channel at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	46
117	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	46
118	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	46
119	Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at $\sqrt{s}=8$ TeV with ATLAS. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	45
120	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. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	45
121	Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	45
122	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	44
123	Search for charged Higgs bosons in the $H \rightarrow tb$ decay channel in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	43
124	Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 442.	1.4	43
125	Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 55.	1.4	43
126	Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	42



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127	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.	1.4	42
128	Performance of top-quark and $W$ -boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1.	1.4	42
129	Measurement of the production and lepton charge asymmetry of $W$ bosons in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 23.	1.4	41
130	Measurement of the $t\bar{t}Z$ and $t\bar{t}W$ production cross sections in multilepton final states using 3.2 fb $^{-1}$ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 40.	1.4	41
131	Measurement of $W^{\pm}Z$ production cross sections and gauge boson polarisation in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	41
132	Higgs boson production cross-section measurements and their EFT interpretation in the $4\ell$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	41
133	Measurements of jet vetoes and azimuthal decorrelations in dijet events produced in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. European Physical Journal C, 2014, 74, 3117.	1.4	40
134	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 $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	40
135	Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at $\sqrt{s} = 7$ TeV in the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	40
136	Study of the $B_c^+ \rightarrow J/\psi D_s^+ B_c + \hat{t} J/\psi D_s +$ and $B_c^+ \rightarrow J/\psi D_s \hat{t}^- +$ decays with the ATLAS detector. European Physical Journal C, 2016, 76, 4.	1.4	40
137	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 fb $^{-1}$ of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
138	Measurements of b-jet tagging efficiency with the ATLAS detector using $t\bar{t}$ events at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
139	Search for heavy resonances decaying into a pair of $Z$ bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- \mu^+\mu^- Z Z$ final states using 139 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
140	Search for flavour-changing neutral current top-quark decays to $qZ$ in pp collision data collected with the ATLAS detector at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 12.	1.4	39
141	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 87.	1.4	39
142	Search for heavy Majorana or Dirac neutrinos and right-handed $W$ gauge bosons in final states with two charged leptons and two jets at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	39
143	Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	38
144	Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	38

#	ARTICLE	IF	CITATIONS
145	Search for Higgs boson pair production in the $\gamma\gamma$ final state with 13 TeV pp collision data collected by the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	38
146	Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	38
147	Search for bottom squark pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 547.	1.4	37
148	Measurement of the W boson polarisation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV in the lepton+jets channel with ATLAS. <i>European Physical Journal C</i> , 2017, 77, 264.	1.4	37
149	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. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	37
150	Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , 2019, 14, P03017-P03017.	0.5	37
151	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb <sup>-1</sup> of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	37
152	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. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	36
153	Search for heavy long-lived multi-charged particles in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 362.	1.4	36
154	Search for pair production of heavy vector-like quarks decaying to high-p T W bosons and b quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	36
155	Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	36
156	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	36
157	Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	36
158	Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	35
159	Search for $W' \rightarrow t\bar{b} \rightarrow q\bar{q}b$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 165.	1.4	35
160	Measurement of the inclusive jet cross-section in proton-proton collisions at $\sqrt{s} = 7$ TeV using 4.5 fb <sup>-1</sup> of data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	35
161	Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 580.	1.4	35
162	Measurements of top-quark pair differential and double-differential cross-sections in the $t\bar{t} + \text{jets}$ channel with pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	34

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164	Analysis of events with b-jets and a pair of leptons of the same charge in $pp$ collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	33
165	Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	33
166	Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	33
167	Measurements of $\tilde{\chi}(2S)$ and $\chi(3872) \rightarrow J/\psi + \tilde{\chi}^0$ production in $pp$ collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	33
168	Determination of the strong coupling constant $\alpha_s$ from transverse energy-energy correlations in multijet events at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 872.	1.4	32
169	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $H \rightarrow b\bar{b}$ decay channel at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	32
170	Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 565.	1.4	31
171	A search for prompt lepton-jets in $pp$ collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	31
172	Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in $pp$ collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
173	Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb <sup>-1</sup> of $\sqrt{s}=13$ TeV $pp$ collision data with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
174	Search for $W$ / $WZ$ resonance production in $\tilde{\chi}_1^0 \tilde{\chi}_1^0$ 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
175	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.	1.6	31
176	Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 79.	1.4	30
177	Study of hard double-parton scattering in four-jet events in $pp$ collisions at $s = 7$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2016, 2016, 1.	1.6	30
178	Charged-particle distributions in $pp$ interactions at $\sqrt{s}=8$ TeV measured with the ATLAS detector. European Physical Journal C, 2016, 76, 403.	1.4	30
179	Searches for the $Z\tilde{\chi}^0$ decay mode of the Higgs boson and for new high-mass resonances in $pp$ collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	30
180	Study of $WW\gamma$ and $WZ\gamma$ production. European Physical Journal C, 2017, 77, 646.	1.4	30

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181	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
182	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.	1.6	30
183	Evidence for $t\bar{t}$ production in the multilepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	30
184	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
185	Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	29
186	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.	1.6	29
187	Searches for heavy ZZ and ZW resonances in the $\gamma\gamma$ , $\gamma q$ and $\gamma\gamma$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	29
188	Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	29
189	Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$ . European Physical Journal C, 2017, 77, 804.	1.4	28
190	Measurement of $WW/WZ \rightarrow \ell\ell uq$ and $WW/WZ \rightarrow \ell\ell q\bar{q}$ production with the hadronically decaying boson reconstructed as one or two jets in pp collisions at $\sqrt{s}=8$ TeV with ATLAS, and constraints on anomalous gauge couplings. European Physical Journal C, 2017, 77, 563.	1.4	28
191	Measurement of the Drell-Yan triple-differential cross section in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	28
192	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow a a \rightarrow 4b$ channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	28
193	Search for long-lived neutral particles in pp collisions at $\sqrt{s}=13$ TeV that decay into displaced hadronic jets in the ATLAS calorimeter. European Physical Journal C, 2019, 79, 1.	1.4	28
194	In situ calibration of large-radius jet energy and mass in 13 TeV proton-proton collisions with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	28
195	Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	28
196	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	28
197	Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	28
198	Search for metastable heavy charged particles with large ionisation energy loss in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS experiment. European Physical Journal C, 2015, 75, 407.	1.4	27

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200	Measurements of top-quark pair differential cross-sections in the $e \bar{\nu}_\ell$ channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 292.	1.4	27
201	Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 625.	1.4	27
202	Search for single production of vector-like quarks decaying into $Wb$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	27
203	Measurement of the top-quark mass in $t \bar{t} + 1$ -jet events collected with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	27
204	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\bar{\nu}_\ell$ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	27
205	Measurements of electroweak $Wj$ production and constraints on anomalous gauge couplings with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 474.	1.4	26
206	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $e \bar{e} b \bar{b}$ and $e \bar{e} W W$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	26
207	Determination of the top-quark pole mass using $t \bar{t} + 1$ -jet events collected with the ATLAS experiment in 7 TeV pp collisions. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	25
208	Searches for heavy diboson resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	25
209	Search for triboson $W^+ W^- W^0$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 141.	1.4	25
210	Operation and performance of the ATLAS Tile Calorimeter in Run 1. <i>European Physical Journal C</i> , 2018, 78, 987.	1.4	25
211	A strategy for a general search for new phenomena using data-derived signal regions and its application within the ATLAS experiment. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	25
212	Search for the Higgs boson produced in association with a W boson and decaying to four b-quarks via two spin-zero particles in pp collisions at 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 605.	1.4	24
213	Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions. <i>European Physical Journal C</i> , 2016, 76, 517.	1.4	24
214	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	24
215	Measurement of fiducial and differential $W^+ W^-$ production cross-sections at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	24
216	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	24

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217	A measurement of the ratio of the production cross sections for $W$ and $Z$ bosons in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , 2014, 74, 3168.	1.4	23
218	A search for high-mass resonances decaying to $\tilde{l}, \tilde{l}^*$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	23
219	Measurement of three-jet production cross-sections in pp collisions at $\sqrt{s}=7$ TeV centre-of-mass energy using the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 228.	1.4	23
220	Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 541.	1.4	23
221	Measurement of the inclusive jet cross-sections in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	23
222	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 $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	23
223	AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , 2022, 6, 1.	1.3	23
224	Measurement of the $t\bar{t}\hat{A}W$ and $t\bar{t}\hat{A}Z$ production cross sections in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	22
225	Study of $(W/Z)H$ production and Higgs boson couplings using $H\hat{A}^*W$ decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	22
226	Search for pair production of heavy vector-like quarks decaying into high- $p_T$ $W$ bosons and top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	22
227	Measurements of top-quark pair spin correlations in the $t\bar{t}$ channel at $\sqrt{s}=13$ TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	22
228	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	22
229	Determination of spin and parity of the Higgs boson in the $WW^* \rightarrow e\mu u$ decay channel with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 231.	1.4	21
230	The performance of the jet trigger for the ATLAS detector during 2011 data taking. <i>European Physical Journal C</i> , 2016, 76, 526.	1.4	21
231	Search for the Standard Model Higgs boson decaying into $b\bar{b}\hat{A}$ produced in association with top quarks decaying hadronically in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	21
232	Search for Higgs boson pair production in the $WW^*WW^*$ decay channel using ATLAS data recorded at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	21
233	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, .	1.4	21
234	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. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	21

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236	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.	1.6	20
237	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.	1.6	20
238	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.	1.4	20
239	Search for diboson resonances in hadronic final states in $139 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	20
240	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.	1.6	19
241	Addendum to "Measurement of the $t\bar{t}\tau^+\tau^-$ production cross-section using $e^+e^- \rightarrow t\bar{t}\tau^+\tau^-$ events with b-tagged jets in pp collisions at $\sqrt{s} = 7$ and $8 \text{ TeV}$ with the ATLAS detector". European Physical Journal C, 2016, 76, 1.	1.4	19
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245	Prompt and non-prompt $J/\psi$ elliptic flow in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 784.	1.4	19
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247	Search for squarks and gluinos in final states with same-sign leptons and jets using $139 \text{ fb}^{-1}$ of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	19
248	Measurement of light-by-light scattering and search for axion-like particles with $2.2 \text{ nb}^{-1}$ of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	19
249	Search for top quark decays $t \rightarrow qH$ , with $H \rightarrow \tau^+\tau^-$ , in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	18
250	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
251	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.	1.4	18
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253	Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	17
254	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.	1.4	17
255	Identification of high transverse momentum top quarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	17
256	Probing the $Wtb$ vertex structure in t-channel single-top-quark production and decay in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	17
257	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.	1.6	17
258	Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $\sqrt{s} = 13$ TeV with ATLAS. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
259	Direct top-quark decay width measurement in the $t \rightarrow \text{lepton} + \text{jets}$ channel at $\sqrt{s} = 8$ TeV with the ATLAS experiment. European Physical Journal C, 2018, 78, 129.	1.4	17
260	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
261	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.	1.4	17
262	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.	1.4	17
263	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
264	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.	1.6	17
265	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.	1.4	17
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267	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	16
268	Top-quark mass measurement in the all-hadronic $t \rightarrow \text{hadrons}$ decay channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	16
269	Measurement of colour flow using jet-pull observables in $t \rightarrow \text{hadrons}$ events with the ATLAS experiment at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 847.	1.4	16
270	Search for exclusive Higgs and Z boson decays to $\tilde{\chi}_1^0 \tilde{\chi}_1^0$ and $\tilde{\chi}_1^0 \tilde{\chi}_1^{\pm}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	16



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272	Measurement of event-shape observables in $Z \rightarrow e^+ e^- Z \hat{a}^+ \hat{a}^-$ events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 375.	1.4	15
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285	Search for bottom-quark 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.	1.6	14
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288	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.	1.6	14

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324	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with $139 \text{ fb}^{-1}$ of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	10

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363	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.	1.6	4
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386	Measurement of the $W$ -boson mass in $pp$ collisions at $(\sqrt{s}=7, \text{TeV})$ with the ATLAS detector. , 2018, 78, 1.		1
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