

# Lily Asquith

## List of Publications by Year in descending order

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1,037  
papers

61,776  
citations

1181

111  
h-index

2704

193  
g-index

1066  
all docs

1066  
docs citations

1066  
times ranked

14061  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 1-29.	4.1	6,386
2	The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.	1.2	1,752
3	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	4.0	1,187
4	Combined Measurement of the Higgs Boson Mass in Collisions at $\sqrt{s} = 7, 8$ TeV and Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 252303.	7.9	1,062
5	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	4.0	489
7	Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	473
8	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 292.	4.0	453
9	Observation of Associated Near-Side and Away-Side Long-Range Correlations in $\sqrt{s} = 2.76$ TeV Pb-Pb Collisions with the ATLAS Detector. Physical Review Letters, 2013, 110, 102302.	4.0	411
10	Measurement of the azimuthal anisotropy for charged particle production in lead-lead collisions with the ATLAS detector. Physical Review C, 2012, 86, 054907.	2.9	365
11	Improved luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 2518.	4.0	362
12	Combined search for the Standard Model Higgs boson using up to $4.9 \text{ fb}^{-1}$ of pp collision data at $\sqrt{s} = 7, 8$ TeV with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 49-66.	4.1	307
13	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	4.0	325
14	Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC. New Journal of Physics, 2011, 13, 053033.	2.9	314
15	Evidence for the spin-0 nature of the Higgs boson using ATLAS data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 120-144.	4.1	307
16	Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 581.	4.0	298
17	Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 88-119.	4.1	295
18	Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653.	4.0	279

#	ARTICLE	IF	CITATIONS
19	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.	4.0	274
20	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.	4.0	268
21	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	4.0	259
22	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. European Physical Journal C, 2012, 72, 1.	4.0	248
23	Combined measurements of Higgs boson production and decay using up to 80 TeV of proton-proton collision data at $\sqrt{s}=8$ TeV with the ATLAS detector. Physical Review D, 2020, 101, .	4.7	241
24	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.	4.0	238
25	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. Physical Review D, 2014, 90, .	4.7	237
26			

#	ARTICLE	IF	CITATIONS
37	Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel at $\sqrt{s} = 8$ TeV in $pp$ collision data with the ATLAS detector. European Physical Journal C, 2016, 76, 45.	4.0	197
38	Search for high-mass dilepton resonances using $139 \text{ fb}^{-1}$ of $pp$ collision data collected at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 357, 117.	4.1	196
39	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 1180.	4.1	195
40	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV with the ATLAS Detector at the LHC. Physical Review Letters, 2016, 117, 182002.	7.9	185
41	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 903.	4.0	181
42	Luminosity determination in $pp$ collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.	4.0	179
43	Measurement of the Higgs boson mass from the $H \rightarrow \tau\tau$ decay channel using $36.1 \text{ fb}^{-1}$ of $pp$ collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 173.	4.7	176
44	Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	175
45	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. European Physical Journal C, 2015, 75, 476.	4.0	174
46	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1.	4.0	172
47	Search for the Standard Model Higgs Boson in the Diphoton Decay Channel with $36.1 \text{ fb}^{-1}$ of $pp$ collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 173.	7.9	171
48	Measurement with the ATLAS detector of multi-particle azimuthal correlations in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 173.	4.1	169
49	Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 173.	4.1	169
50	Search for Scalar Diphoton Resonances in the Mass Range $65 \leq m < 600$ GeV with the ATLAS Detector in $pp$ Collision Data at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2014, 113, 171801.	7.9	168
51	Search for new high-mass phenomena in the dilepton final state using $36 \text{ fb}^{-1}$ of proton-proton collision data at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	168
52	Measurement of the differential cross-sections of inclusive, prompt and non-prompt $J/\psi$ production in proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 173.	2.6	163
53	Measurement of the differential cross-sections of inclusive, prompt and non-prompt $J/\psi$ production in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 173.	4.7	158
54	Measurements of Higgs boson production and couplings in the four-lepton channel in $pp$ collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, 113005.	4.7	158

#	ARTICLE	IF	CITATIONS
55	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2017, 96, .	4.7	157
56	Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Nuclear Physics B</i> , 2014, 889, 486-548.	2.6	155
57	Measurement of the transverse momentum and $\phi$ distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 291.	4.0	154
58	Measurement of hard double-parton interactions in $W$ + 2-jet events at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>New Journal of Physics</i> , 2013, 15, 033038.	2.9	147
59	Measurement of the top quark-pair production cross section with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2011, 71, 1.	4.0	146
60	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. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	145
61	Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , 2017, 77, 466.	4.0	145
62	Precision measurement and interpretation of inclusive $W^+W^-$ , $W^+W^-$ . <i>European Physical Journal C</i> , 2017, 77, 367.	4.0	145
63	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s} = 13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018, 121, 211801.	7.9	145
64	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 710, 67-85.	4.1	143
65	Measurement of the $t\bar{t}$ production cross-section using $e^+e^-$ events with $b$ -tagged jets in $pp$ collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014, 74, 3109.	4.0	143
66	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. <i>European Physical Journal C</i> , 2015, 75, 510.	4.0	138
67	Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 718, 157-162.	4.1	138
68	Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	137
69	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	137
70	Search for Supersymmetry Using Final States with One Lepton, Jets, and Missing Transverse Momentum with the ATLAS Detector in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011, 106, 131802.	7.9	136
71	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	136
72	Measurement of inclusive jet and dijet production in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2011, 106, 131802.	4.7	135



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73	Measurement of the Nuclear Modification Factor for Jets in $Pb-Pb$ Collisions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector. Physical Review C, 2014, 90, .	7.9	135
74	Measurement of event-plane correlations in lead-lead collisions with the ATLAS detector. Physical Review C, 2014, 90, .	7.9	134
75	Charged-particle multiplicities in pp interactions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 21–42.	7.9	133
76	Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801.	7.9	133
77	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 199.	4.0	132
78	Measurement of the $Z/\gamma^*$ 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
79	Search for Invisible Decays of a Higgs Boson Produced in Association with a $Z$ Boson in ATLAS. Physical Review Letters, 2014, 112, .	7.9	130
80	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.	4.0	130
81	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s} = 8$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.	7.9	129
82	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s} = 8$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.	4.7	128
83	Jet substructure at the Large Hadron Collider. Reviews of Modern Physics, 2019, 91, .	45.8	128
84	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in compressed supersymmetric scenarios in $p\bar{p}$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.1	126
85	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in $p\bar{p}$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	126
86	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in $p\bar{p}$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	126
87	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.	4.0	125
88	Boosted objects and jet substructure at the LHC. Report of BOOST2012, held at IFIC Valencia, 23–27th of July 2012. European Physical Journal C, 2014, 74, 1.	4.0	124
89	Electron and photon performance measurements with the ATLAS detector using the 2015–2017 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P12006-P12006.	1.2	124
90	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.	4.0	124

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91	<p>Search for the Standard Model Higgs boson produced in association with top quarks and decaying into <math>\bar{b}b</math> in <math>pp</math> collisions at <math>\sqrt{s} = 8</math> TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349.</p>	7.9	123
92	<p>Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.</p>	4.0	123
93	<p>Measurement of the inclusive isolated prompt photon cross section in <math>pp</math> collisions at <math>\sqrt{s} = 7</math> TeV with the ATLAS detector. Physical Review D, 2011, 83, .</p>	4.0	121
94	<p>Measurement of the inclusive isolated prompt photon cross section in <math>pp</math> collisions at <math>\sqrt{s} = 7</math> TeV with the ATLAS detector. Physical Review D, 2011, 83, .</p>	4.7	121
95			

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109	Measurement of the t-channel single top-quark production cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 717, 330-350.		

110



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127	Search for heavy neutrinos and right-handed $W$ bosons in events with two leptons and jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 2056.	4.0	101
128	Searches for Higgs boson pair production in the $hh$ final state using pp collision data at $\sqrt{s} = 8$ TeV from the ATLAS detector. Physical Review Letters, 2015, 114, 081802.	4.7	101
129	Search for heavy $ZZ$ resonances in the $ee \rightarrow ee + \gamma + \gamma$ final states using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	4.0	101
130	Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	4.0	100
131	Search for high-mass diphoton resonances in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .	4.7	99
132	Search for Higgs Boson Pair Production in the $\tau\tau b\bar{b}$ Final State Using pp Collision Data at $\sqrt{s} = 8$ TeV from the ATLAS Detector. Physical Review Letters, 2015, 114, 081802.	7.9	98
133	Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 153-183.	4.0	98
134	Search for a CP-odd Higgs boson decaying to $Zh$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 153-183.	4.0	98
135	Search for a CP-odd Higgs boson decaying to $Zh$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 153-183.	7.9	97
136	The ATLAS Inner Detector commissioning and calibration. European Physical Journal C, 2010, 70, 787-821.	4.0	95
137	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.	4.0	95
138	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.	4.0	95
139	Search for the Standard Model Higgs boson in the decay channel $HH \rightarrow ZZ \rightarrow 4\ell$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 153-183.	4.0	95
140	Centrality and rapidity dependence of inclusive jet production in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 392-413.	4.1	93
141	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	4.0	93
142	Measurements of the $W$ production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82.	4.0	92
143	Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 392-413.	4.7	91
144	Search for dark matter in events with a $Z$ boson and missing transverse momentum in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 392-413.	4.7	90

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145	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.	4.0	90
146	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.	4.7	89
147	Jet mass and substructure of inclusive jets in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS experiment. Journal of High Energy Physics, 2012, 2012, 1.	4.7	88
148	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
149	Measurement of $W\Delta$ and Z-boson production cross sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 601-621.	4.7	88
150	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	4.0	87
151	Measurement of multi-particle azimuthal correlations in pp, pPb and low-multiplicity PbPb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	4.0	86
152	Measurement of the correlation between flow harmonics of different order in lead-lead collisions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector. Physical Review C, 2015, 92, .	4.7	84
153	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
154	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
155	Observation of an Excited $B_c$ State with the ATLAS Detector. Physical Review Letters, 2014, 113, 212004.	4.7	82
156	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.	4.0	82
157	Search for Dilepton Resonances in pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2013, 107, 072002.	7.9	81
158	ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	81
159	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.	4.0	81
160	Observation of Spin Correlation in $t\bar{t}$ Events from pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2013, 107, 072002.	7.9	80
161	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.	4.0	80
162	Searches for electroweak production of supersymmetric particles with compressed mass spectra in pp collisions with. Physical Review D, 2020, 101, .	4.7	80

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163	Search for production of $W/WZ$ 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.	4.0	79
164	Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. European Physical Journal C, 2017, 77, 70.	4.0	79
165	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.	4.0	79
166	Measurement of $\epsilon$ production in $7\text{ TeV}$ collisions at ATLAS. Physical Review D, 2013, 87, .	4.7	78
167	Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-39.	4.7	78
168	Evidence for the associated production of a W boson and a top quark in ATLAS at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 142-159.	4.7	78
169	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.	4.0	77
170	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.	4.0	77
171	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, 171.	4.0	77
172	Measurement of $W$ production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 142-159.	4.7	76
173	Angular analysis of $B^0 \rightarrow \pi^+ \pi^- K^*_{S(1)}$ decays in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	76
174	Search for Direct Top Squark Pair Production in Final States with One Isolated Lepton, Jets, and Missing Transverse Momentum in $pp$ Collisions Using $\sqrt{s} = 7$ TeV of ATLAS Data. Physical Review Letters, 2012, 109, 211803.	4.7	75
175	Search for new physics in the dijet mass distribution using $\sqrt{s} = 7$ TeV collision data at ATLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 37-54.	4.7	75
176	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	4.0	75
177	Measurement of quarkonium production in lead and proton-proton collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.	4.0	75
178	Observation of Light-by-Light Scattering in Ultraperipheral $Pb-Pb$ Collisions with the ATLAS Detector. Physical Review Letters, 2019, 123, 052001.	7.9	75
179	A Particle Consistent with the Higgs Boson Observed with the ATLAS Detector at the Large Hadron Collider. Science, 2012, 338, 1576-1582.	12.8	74
180	Search for resonant diboson production in the $ee \rightarrow q\bar{q} \gamma \gamma$ final state in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69.	4.0	74

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181	Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS Detector. Physical Review Letters, 2017, 119, 191803.	7.9	74
182	Measurement of the nuclear modification factor for inclusive jets in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76\text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 108-128.		
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#	ARTICLE	IF	CITATIONS
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327	Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in $\sqrt{s}=8$ TeV pp Collisions at the ATLAS Detector. Physical Review Letters, 2015, 115, 171801	4.1	49
328	Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in $\sqrt{s}=8$ TeV pp Collisions at the ATLAS Detector. Physical Review Letters, 2015, 115, 171801	7.9	49
329	Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in $\sqrt{s}=8$ TeV pp Collisions at the ATLAS Detector. Physical Review Letters, 2015, 115, 171801	7.9	49

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375	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\gamma\gamma$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 783, 392-414.	4.1	44
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381	Search for charged Higgs bosons in the $H \rightarrow \tau^+ \tau^-$ decay channel in $pp$ collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	43
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413	Search for pair production of heavy top-like quarks decaying to a high- $p_T$ lepton and a $W$ boson and a $b$ quark in the lepton plus jets final state at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2012, 109, 032001.	4.1	40
414	Search for pair production of heavy top-like quarks decaying to a high- $p_T$ lepton and a $W$ boson and a $b$ quark in the lepton plus jets final state at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2012, 109, 032001.	4.1	40





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436	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.	4.1	39
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441	Search for pair production of Higgs bosons in the final state using proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	38
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443	Search for pair production of Higgs bosons in the final state using proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	38
444	Search for pair production of Higgs bosons in the final state using proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	38
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449	Search for pair production of Higgs bosons in the final state using proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	38
450	Search for pair production of Higgs bosons in the final state using proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	38

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484	Search for long-lived particles produced in pp collisions at $\sqrt{s}=13$ TeV that decay into displaced hadronic jets in the ATLAS muon spectrometer. Physical Review D, 2019, 99, .	4.7	35
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490	Evidence for single top-quark production in the s-channel in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector using the Matrix Element Method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 756, 228-246.	4.1	34
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#	ARTICLE	IF	CITATIONS
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507	Search for high mass dilepton resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2020, 101, 014017.	4.7	33
508	Search for third generation scalar leptoquarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.1	32
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#	ARTICLE	IF	CITATIONS
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524	Measurement of the $Z \rightarrow \mu^+ \mu^-$ Production Cross Section in $pp$ Collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	7.9	31
525	A search for prompt lepton-jets in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	31
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531	Search for light resonances decaying to boosted quark pairs and produced in association with a photon or a jet in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135148.	4.1	31
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560	Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1.	4.0	29
561	Search for massive long-lived highly ionising particles with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 698, 353-370.	4.1	28
562	A search for prompt lepton-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 719, 299-317.	4.1	28
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569	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. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	28
570	Search for long-lived neutral particles in pp collisions at $\sqrt{s}=13$ TeV that decay into displaced hadronic jets in the ATLAS calorimeter. <i>European Physical Journal C</i> , 2019, 79, 1.	4.0	28
571	Measurement of the $t\bar{t} \rightarrow Z\gamma$ cross sections in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	28
572	In situ calibration of large-radius jet energy and mass in $\sqrt{s}=13$ TeV proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1.	4.0	28
573	Measurement of photon-jet transverse momentum correlations in 5.02 TeV Pb + Pb and pp collisions with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 789, 1.	4.1	28
574	Search for the $Z\gamma$ decay mode of the Higgs boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 789, 1.	4.1	28
575	Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	28
576	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1.	4.0	28



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578	Measurement of the Lund Jet Plane Using Charged Particles in $\sqrt{s} = 13$ TeV Proton-Proton Collisions with the ATLAS Detector. Physical Review Letters, 2020, 124, 222002.	7.9	28
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583	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.	4.0	27
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596	Search for new light gauge bosons in Higgs boson decays to four-lepton final states in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector at the LHC. Physical Review D, 2015, 92, .	4.7	26
597	Search for dark matter in association with a Higgs boson decaying to b-quarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 11-31.	4.7	26
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600	Search for Higgs bosons produced via vector-boson fusion and decaying into bottom quark pairs in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 86, 134-153.	4.7	26
601	Search for Higgs boson decays into a pair of light bosons in the $b\bar{b} \ell\ell$ final state in pp collision at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2018, 97, 1-11.	4.7	26
602	Search for Higgs boson decays into a pair of light bosons in the $b\bar{b} \ell\ell$ final state in pp collision at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 1-21.	4.7	26
603	Measurement of the $\mu\mu$ production cross-section and lepton differential distributions in $\mu\mu$ dilepton events from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, .	4.0	26
604	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\ell\ell \ell\ell$ and $\ell\ell \nu\nu$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	4.0	26
605	A search for $\rho$ resonances with the ATLAS detector in 2.05 fb <sup>-1</sup> of proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 2083.	4.0	25
606	Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	4.0	25
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740	Search for strong gravity signatures in same-sign dimuon final states using the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 322-340.	4.1	17
741	Measurement of the top quark charge in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	17
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743	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.	4.0	17
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748	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
749	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.	4.7	17
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751	Search for flavor-changing neutral currents in top quark decays $t \rightarrow b \tau^+ \nu_\tau$ and $t \rightarrow b \mu^+ \nu_\mu$ in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2018, 98, .	4.7	17
752	Search for flavour-changing neutral current top-quark decays $t \rightarrow b \tau^+ \nu_\tau$ in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
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764	Measurement of the associated production of a Higgs boson decaying into $b$ -quarks with a vector boson at high transverse momentum in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review Letters, 2021, 127, 051802.	4.1	17
765	Search for displaced leptons in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review Letters, 2021, 127, 051802.	7.9	17
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769	Search for a fermiophobic Higgs boson in the diphoton decay channel with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	4.0	16
770	Search for a heavy Standard Model Higgs boson in the channel $pp \rightarrow H \rightarrow \tau\tau$ with the ATLAS detector. Physical Review Letters, 2021, 127, 051802.	4.1	16
771	Search for nonpointing photons in the diphoton and $pp \rightarrow H \rightarrow \tau\tau$ channels with the ATLAS detector. Physical Review Letters, 2021, 127, 051802.	4.1	16
772	Search for nonpointing photons in the diphoton and $pp \rightarrow H \rightarrow \tau\tau$ channels with the ATLAS detector. Physical Review Letters, 2021, 127, 051802.	4.7	16
773	Simultaneous measurements of the $pp \rightarrow H \rightarrow \tau\tau$ and $pp \rightarrow H \rightarrow \tau\tau$ channels with the ATLAS detector. Physical Review Letters, 2021, 127, 051802.	4.1	16
774	Simultaneous measurements of the $pp \rightarrow H \rightarrow \tau\tau$ and $pp \rightarrow H \rightarrow \tau\tau$ channels with the ATLAS detector. Physical Review D, 2015, .	4.7	16



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776	Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $s = 8$ TeV proton-proton collisions. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
777	Measurements of four-lepton production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 249-268.	4.1	16
778	Search for single production of a vector-like quark via a heavy gluon in the 4b final state with the ATLAS detector in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 249-268.	4.1	16
779	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.	4.7	16
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783	Search for exclusive Higgs and Z boson decays to $\tau^+\tau^-$ and $\mu^+\mu^-$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
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790	Search for direct chargino production in anomaly-mediated supersymmetry breaking models based on a disappearing-track signature in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	15
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796	Search for strong gravity in multijet final states produced in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ using the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	15
797	Measurements of integrated and differential cross sections for isolated photon pair production in collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , 2017, 96, .	4.7	15
798	Measurement of the cross-section for electroweak production of dijets in association with a Z boson in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 775, 206-228.	4.7	15
799	Search for dark matter in association with a Higgs boson decaying to two photons at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , 2017, 96, .	4.7	15
800	Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	15
801	Search for scalar resonances decaying into $\tau^+ \tau^-$ in events with and without b-tagged jets produced in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	15
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803	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , 2021, 81, 1.	4.0	15
804	Test of the universality of $\tilde{l}_\tau$ and $\tilde{l}_\mu$ lepton couplings in W-boson decays with the ATLAS detector. <i>Nature Physics</i> , 2021, 17, 813-818.	16.8	15
805	Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ using the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1.	4.0	15
806	Search for a heavy neutral particle decaying into an electron and a muon using 1 fb <sup>-1</sup> of ATLAS data. <i>European Physical Journal C</i> , 2011, 71, 1.	4.0	14
807	Search for excited leptons in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , 2012, 85, .	4.7	14
808	Search for TeV-scale gravity signatures in final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , 2017, 96, .	4.1	14
809	Search for a heavy neutral particle decaying into an electron and a muon using 1 fb <sup>-1</sup> of ATLAS data. <i>European Physical Journal C</i> , 2011, 71, 1.	4.1	14
810	Search for microscopic black holes in a like-sign dimuon final state using large track multiplicity with the ATLAS detector. <i>Physical Review D</i> , 2013, 88, .	4.7	14

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814	Measurement of charged-particle distributions sensitive to the underlying event in $\sqrt{s}=13$ TeV proton-proton collisions with the ATLAS detector at the LHC. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
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816	Measurement of the cross section for isolated-photon plus jet production in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 578-602.	4.7	14
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823	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
824	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s}=13$ -ext {TeV}. European Physical Journal C, 2021, 81, 1.	4.0	14
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828	Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in $\sqrt{s}=13$ TeV proton-proton collisions at the ATLAS detector. Physical Review D, 2020, 102, .	4.7	14

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830	Search for new phenomena in pp collisions in final states with tau leptons, b-jets, and missing transverse momentum with the ATLAS detector. Physical Review D, 2021, 104, .	4.7	14
831	Integration of the trigger and data acquisition systems in ATLAS. Journal of Physics: Conference Series, 2008, 119, 022001.	0.4	13
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833	Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	4.0	13
834	Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 7 TeV proton-proton collision data with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	4.0	13
835	Search for lepton flavour violation in the $e\tau$ continuum with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC. European Physical Journal C, 2012, 72, 2040.	4.0	13
836	The differential production cross section of the $\phi(1020)$ meson in $\sqrt{s} = 7$ TeV pp collisions measured with the ATLAS detector. European Physical Journal C, 2014, 74, 2895.	4.0	13
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838	Search for Higgs and Z boson decays to $\tau\tau$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review Letters, 2016, 117, 111802.	7.9	13
839	Measurement of the CP-violating phase $\arg(\lambda)$ and the $B_s^0$ meson decay width difference with $B_s^0$ decays in ATLAS. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
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841	Search for anomalous couplings in the W tb vertex from the measurement of double differential angular decay rates of single top quarks produced in the t-channel with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1-46.	4.7	13
842	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
843	Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 102.	4.0	13
844	Measurement of the production cross section of three isolated photons in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 370, 1-10.	4.7	13
845	Measurement of the production cross section for a Higgs boson in association with a vector boson in the $WZ$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 370, 1-10.	4.7	13
846	Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 370, 1-10.	4.1	13



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848	Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2019, 99, 054004.	4.7	13
849	Search for top quark production in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2019, 99, 054004.	4.7	13
850	Search for non-resonant Higgs boson pair production in the $b\bar{b}\gamma$ , $1/2\gamma$ , $1/2$ final state with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135145.	4.1	13
851	Measurement of the CP-violating phase $\phi_{s1}$ in $B_{s1} \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV. European Physical Journal C, 2021, 81, .	4.0	13
852	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.	4.0	13
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854	Underlying event characteristics and their dependence on jet size of charged-particle jet events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physical Review D, 2012, 86, .	4.7	12
855	Search for Production of Resonant States in the Photon-Jet Mass Distribution Using pp Collisions at $\sqrt{s} = 7$ TeV Collected by the ATLAS Detector. Physical Review Letters, 2012, 108, 211802.	7.9	12
856	Search for resonant WZ production in the $WZ \rightarrow l\bar{l}\nu\nu$ channel in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector. Physical Review D, 2012, 85, .	4.7	12
857	Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	4.7	12
858	Search for events with large missing transverse momentum, jets, and at least two tau leptons in 7 TeV proton-proton collision data with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 180-196.	4.1	12
859	Measurement of the branching ratio $B(B \rightarrow \tau \nu)$ using 36.1 fb $^{-1}$ of proton-proton collision data with the ATLAS detector. Physical Review D, 2013, 88, .	4.1	12
860	Measurement of charged-particle event shape variables in inclusive $\sqrt{s} = 7$ TeV proton-proton interactions with the ATLAS detector. Physical Review D, 2013, 88, .	4.7	12
861	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
862	Study of heavy-flavor quarks produced in association with top-quark pairs at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physical Review D, 2014, 89, .	4.7	12
863	Measurement of the branching ratio $B(B \rightarrow \tau \nu)$ using 36.1 fb $^{-1}$ of proton-proton collision data with the ATLAS detector. Physical Review D, 2013, 88, .		

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866	Measurement of the charge asymmetry in highly boosted top-quark pair production in $\sqrt{s} = 13$ TeV pp collision data collected by the ATLAS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 756, 52-71.	4.1	12
867	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.	4.0	12
868	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, 1.	4.7	12
869	Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 776, 205-217.	4.1	12
870	Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physical Review C, 2018, 98, .	2.9	12
871	Search for $B^0$ $\rightarrow$ $L^+ R^-$ parity-violating top squarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS experiment. Physical Review D, 2018, 97, .	4.7	12
872	Measurement of the four-lepton invariant mass spectrum in $\sqrt{s} = 13$ TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	12
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874	Measurement of the $\sigma(\text{lepton} + \text{jets})$ production cross-section in the lepton+jets channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.1	12
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