

# Robert Astalos

## List of Publications by Year in descending order

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547  
papers

27,165  
citations

6592

79  
h-index

13727

129  
g-index

576  
all docs

576  
docs citations

576  
times ranked

10630  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined Measurement of the Higgs Boson Mass in $pp$ Collisions at $\sqrt{s}=7$ and $8$ TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015, 114, 191803.	2.9	1,062
2	Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , 2017, 77, 317.	1.4	489
3	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. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	473
4	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2016, 76, 292.	1.4	453
5	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , 2017, 77, 490.	1.4	325
6	Evidence for the spin-0 nature of the Higgs boson using ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 120-144.	1.5	307
7	Performance of pile-up mitigation techniques for jets in $pp$ collisions at $\sqrt{s}=8$ . <i>European Physical Journal C</i> , 2016, 76, 581.	1.4	298
8	Luminosity determination in $pp$ collisions at $\sqrt{s}=8$ TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016, 76, 653.	1.4	279
9	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. <i>European Physical Journal C</i> , 2016, 76, 6.	1.4	274
10	Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 17.	1.4	268
11	Combined measurements of Higgs boson production and decay using up to $\sqrt{s}=13$ TeV of proton-proton collision data at $\sqrt{s}=8$ and $13$ TeV with the ATLAS and CMS experiments. <i>Physical Review D</i> , 2020, 101, 1.	2.9	241
12	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. <i>European Physical Journal C</i> , 2015, 75, 299.	1.4	238
13	Combined measurements of Higgs boson production and decay using up to $\sqrt{s}=13$ TeV of proton-proton collision data at $\sqrt{s}=8$ and $13$ TeV with the ATLAS and CMS experiments. <i>Physical Review Letters</i> , 2016, 116, 172301.	2.9	228
14	Measurement of the W-boson mass in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 110.	1.4	218
15	Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014, 74, 3130.	1.4	213
16	Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014, 74, 2941.	1.4	204
17	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. <i>European Physical Journal C</i> , 2016, 76, 45.	1.4	197
18	Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC. <i>Physical Review Letters</i> , 2016, 117, 182002.	2.9	185

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19	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
20	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.	1.6	175
21	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
22	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1.	1.4	172
23	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, 173–191.	1.5	169
24	Search for Scalar Diphoton Resonances in the Mass Range $65 \leq m < 600$ GeV with the ATLAS Detector in $pp \rightarrow \gamma\gamma$ Collisions. Collision Data at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review Letters, 2014, 113, 171801.	2.9	168
25	Search for new high-mass phenomena in the dilepton final state using 36 fb <sup>-1</sup> 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
26	Measurements of Higgs boson production and couplings in the four-lepton channel in $pp \rightarrow \gamma\gamma \ell\ell$ collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, 112004.	1.6	158
27	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2017, 96, 012002.	1.6	157
28	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
29	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	145
30	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	1.4	145
31	Precision measurement and interpretation of inclusive $W^+W^-$ production. European Physical Journal C, 2017, 77, 367.	1.4	145
32	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s}=13$ TeV with the ATLAS Detector. Physical Review Letters, 2018, 121, 211801.	2.9	145
33	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. European Physical Journal C, 2014, 74, 3109.	1.4	143
34	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
35	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 772, 130577.	1.5	138
36	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

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37	Measurements of the Nuclear Modification Factor for Jets in $\sqrt{s}=8$ TeV Pb-Pb Collisions at the ATLAS Detector. Physical Review Letters, 2015, 114, 072302.	2.9	135
38	Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801.	2.9	133
39	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
40	Measurement of the $Z/\tilde{A}$ boson transverse momentum distribution in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	131
41	Search for Invisible Decays of a Higgs Boson Produced in Association with a $Z$ Boson in ATLAS. Physical Review Letters, 2014, 112, .	2.9	130
42	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
43	Search for Dark Matter in Events with a Hadronically Decaying $Z$ Boson and Missing Transverse Momentum in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. Physical Review Letters, 2014, 112, 041802.	2.9	129
44	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.	1.6	128
45	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
46	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.	0.5	124
47	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. Physical Review Letters, 2018, 120, 1.	1.4	124
48	Evidence for Electroweak Production of $\tilde{A}$ Bosons in $\sqrt{s}=8$ TeV pp Collisions at the ATLAS Detector. Physical Review Letters, 2014, 112, 041802.	2.9	123
49	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
50	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
51	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in $36 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	116
52	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
53	Measurements of Higgs boson properties in the diphoton decay channel with $36 \text{ fb}^{-1}$ of $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review Letters, 2018, 120, 1.	1.6	115
54	Observation and measurement of Higgs boson decays to $WW$ in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .	1.6	110

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55	Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 5.	1.4	109
56	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
57	Search for heavy resonances decaying into WW in the $e^+e^- \rightarrow \tau^+\tau^-$ final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 24.	1.4	108
58	Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	102
59	Search for heavy ZZ resonances in the $e^+e^- \rightarrow \tau^+\tau^-$ final states using proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	1.4	101
60	Search for Higgs Boson Pair Production in the $\tau^+\tau^-$ Final State Using pp Collision Data at $\sqrt{s} = 8 \text{ TeV}$ from the ATLAS Detector. Physical Review Letters, 2015, 114, 081802.	2.9	98
61	Search for Heavy Higgs Bosons Decaying into Five Tau Leptons with the ATLAS Detector Using $\sqrt{s} = 13 \text{ TeV}$ Data. Physical Review Letters, 2020, 125, 051801.	2.9	97
62	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
63	Search for new phenomena in events with at least three photons collected in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 210.	1.4	95
64	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	93
65	Measurements of the $W$ production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82.	1.4	92
66	Search for Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state from pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 412.	1.4	90
67	Search for the $b\bar{b}\gamma$ 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
68	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	88
69	Measurement of $W$ and Z-boson production cross sections in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 601-621.	1.4	88
70	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	1.4	87
71	Measurement of multi-particle azimuthal correlations in pp, $p\bar{p}$ and low-multiplicity $Pb\bar{Pb}$ collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	1.4	86
72	Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.	1.6	84



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73	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
74	Observation of an Excited $B_c$ State with the ATLAS Detector. Physical Review Letters, 2014, 113, 212004.	1.4	82
75	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
76	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
77	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
78	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
79	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
80	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.	1.4	79
81	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
82	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.	1.4	77
83	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
84	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
85	Angular analysis of $B_0 \rightarrow \pi^+ \pi^- \ell^+ \ell^-$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	76
86	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	1.4	75
87	Measurement of quarkonium production in proton-proton collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.	1.4	75
88	Observation of Light-by-Light Scattering in Ultraperipheral $Pb-Pb$ Collisions with the ATLAS Detector. Physical Review Letters, 2019, 123, 052001.	2.9	75
89	Search for resonant diboson production in the $\ell\ell \rightarrow q\bar{q}$ final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69.	1.4	74
90	Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector. Physical Review Letters, 2017, 119, 191803.	2.9	74

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91	Measurement of the production cross section of jets in association with a Z boson in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
92	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
93	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
94	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
95	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s}=8$ TeV proton-proton collisions using the ATLAS experiment. Journal of High Energy Physics, 2013, 2013, 1.	1.6	71
96	Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $s=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	71
97	Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at $s=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	71
98	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
99	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
100	Search for resonances in diphoton events at $s=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	70
101	Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b}$ Decay Channel in $\sqrt{s}=13$ TeV pp Collisions with the ATLAS Detector. Physical Review Letters, 2018, 121, 191801.	2.9	70
102	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \bar{\nu}_\tau$ , $H \rightarrow \tau^\pm \nu_\tau$ 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
103	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
104	ATLAS data quality operations and performance for 2015-2018 data-taking. Journal of Instrumentation, 2020, 15, P04003-P04003.	0.5	68
105	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
106	Measurement of charged-particle spectra in Pb+Pb collisions at $s_{NN}=2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	1.6	67
107	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
108	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

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109	<p>Top-Quark Pair Production Search with Weak Supervision Using <math>\sqrt{s} = 8</math> TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i>, 2014, 2014, 1.</p>	2.9	67
110	<p>Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in <math>\sqrt{s} = 8</math> TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i>, 2014, 2014, 1.</p>	1.6	66
111	<p>A search for <math>t \bar{t}</math> resonances using lepton-plus-jets events in proton-proton collisions at <math>\sqrt{s} = 8</math> TeV with the ATLAS detector. <i>Journal of High Energy Physics</i>, 2015, 2015, 1.</p>	1.6	66
112	<p>A search for pair-produced resonances in four-jet final states at <math>\sqrt{s} = 13</math> TeV with the ATLAS detector. <i>European Physical Journal C</i>, 2018, 78, 250.</p>	1.4	66
113	<p>Measurement of Spin Correlation in Top-Antitop Quark Events and Search for Top Squark Pair Production in <math>\sqrt{s} = 8</math> TeV pp collisions with the ATLAS detector. <i>Physical Review Letters</i>, 2015, 114, 142001.</p>	2.9	64
114	<p>Evidence for the <math>H \rightarrow b \bar{b}</math> decay with the ATLAS detector. <i>Journal of High Energy Physics</i>, 2017, 2017, 1.</p>	1.6	64
115	<p>Search for new phenomena in events with an energetic jet and missing transverse momentum in <math>\sqrt{s} = 13</math> TeV pp collisions with the ATLAS detector. <i>Physical Review D</i>, 2021, 103, .</p>	1.6	64
116	<p>Jet energy scale and resolution measured in proton-proton collisions at <math>\sqrt{s} = 13</math> TeV with the ATLAS detector. <i>European Physical Journal C</i>, 2021, 81, 1.</p>	1.4	64
117	<p>Measurement of the differential cross-sections of prompt and non-prompt production of <math>J/\psi</math> and <math>\psi(2S)</math> in pp collisions at <math>\sqrt{s} = 7</math> and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i>, 2016, 76, 283.</p>	1.4	63
118	<p>Measurement of the Higgs boson mass in the <math>H \rightarrow \tau \tau</math> and <math>H \rightarrow \mu \mu</math> channels with <math>\sqrt{s} = 13</math> TeV pp collisions using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i>, 2018, 784, 345-366.</p>	1.6	63
119	<p>Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay to <math>\tau \tau</math> in <math>\sqrt{s} = 13</math> TeV pp collisions with the ATLAS detector. <i>Physical Review D</i>, 2019, 99, .</p>	1.6	63
120	<p>Performance of the ATLAS muon trigger in pp collisions at <math>\sqrt{s} = 8</math> TeV. <i>European Physical Journal C</i>, 2015, 75, 120.</p>	1.4	62
121	<p>Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at <math>\sqrt{s} = 8</math> TeV. <i>European Physical Journal C</i>, 2016, 76, 154.</p>	1.4	62
122	<p>Performance of the ATLAS muon triggers in Run 2. <i>Journal of Instrumentation</i>, 2020, 15, P09015-P09015.</p>	0.5	62
123	<p>Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay to <math>\tau \tau</math> in <math>\sqrt{s} = 13</math> TeV pp collisions with the ATLAS detector. <i>Physical Review D</i>, 2019, 99, .</p>	1.4	61
124	<p>Charged-particle distributions at low transverse momentum in <math>\sqrt{s} = 13</math> TeV pp interactions measured with the ATLAS detector at the LHC. <i>European Physical Journal C</i>, 2016, 76, 502.</p>	1.4	61
125	<p>Performance of algorithms that reconstruct missing transverse momentum in <math>\sqrt{s} = 8</math> TeV proton-proton collisions in the ATLAS detector. <i>European Physical Journal C</i>, 2017, 77, 241.</p>	1.4	61
126	<p>Prompt and non-prompt <math>J/\psi</math> and <math>\psi(2S)</math> suppression at high transverse momentum in <math>\sqrt{s} = 5.02</math> TeV Pb+Pb collisions with the ATLAS experiment. <i>European Physical Journal C</i>, 2018, 78, 762.</p>	1.4	61



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127	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 58.	1.4	61
128	A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 812, 135980.	1.5	61
129	Summary of the searches for squarks and gluinos using $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS experiment at the LHC. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	60
130	Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $\sqrt{s} = 8 \text{ TeV}$ pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	60
131	Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $u\bar{u} + b\bar{b} \rightarrow \tilde{a}, \tilde{a}', \tilde{a}, \tilde{a}', \tilde{1}/2, \tilde{1}/2, \tilde{1}/2 + b\bar{b} \tilde{A}^-$ final states with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 263.	1.4	60
132	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-proton collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 199.	1.4	60
133	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 18.	1.4	60
134	Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	59
135	Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	59
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399	Measurement of the cross-section for electroweak production of dijets in association with a Z 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> , 2017, 775, 206-228.	1.6	15
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465	Search for resonant pair production of Higgs bosons in the $b \bar{b}$ channel. Journal of High Energy Physics, 2021, 2021, 1.	1.6	10
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