

# Roger Jones

## List of Publications by Year in descending order

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Version: 2024-02-01

749  
papers

33,790  
citations

5268  
83  
h-index

11052  
137  
g-index

779  
all docs

779  
docs citations

779  
times ranked

10850  
citing authors

#	ARTICLE	IF	CITATIONS
1	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	3.9	1,187
2	Search for neutral MSSM Higgs bosons at LEP. European Physical Journal C, 2006, 47, 547.	3.9	592
3	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	3.9	489
4	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 292.	3.9	453
5	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.	3.9	362
6	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	3.9	325
7	Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 581.	3.9	298
8	Branching ratios and spectral functions of $\tilde{l}$ , decays: Final ALEPH measurements and physics implications. Physics Reports, 2005, 421, 191-284.	25.6	288
9	Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653.	3.9	279
10	Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s} = 7$ and 8 TeV in the ATLAS experiment. European Physical Journal C, 2016, 76, 6.	3.9	274
11	Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 17.	3.9	268
12	The detector simulation program for the OPAL experiment at LEP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 317, 47-74.	1.6	259
13	A measurement of the inclusive $b \rightarrow s \gamma$ branching ratio. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 429, 169-187.	4.1	259
14	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	3.9	259
15	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. European Physical Journal C, 2012, 72, 1.	3.9	248
16	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 299.	3.9	238
17			

#	ARTICLE	IF	CITATIONS
19	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.	3.9	218
20	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.	3.9	213
21	Measurement of the Z0 mass and width with the opal detector at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 231, 530-538.	4.1	211
22	Jet energy resolution in proton-proton collisions at $\sqrt{s}=7$ TeV recorded in 2010 with the ATLAS detector. European Physical Journal C, 2013, 73, 2306.	3.9	209
23	Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. European Physical Journal C, 2014, 74, 2941.	3.9	204
24	GridPP: development of the UK computing Grid for particle physics. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, N1-N20.	3.6	200
25	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.	3.9	197
26	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.	3.9	181
27	Luminosity determination in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.	3.9	179
28	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
29	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. European Physical Journal C, 2015, 75, 476.	3.9	174
30	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1.	3.9	172
31	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.	4.7	168
32	Measurement of the transverse momentum and $\phi_{\ell\ell}$ distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 291.	3.9	154
33	Measurement of the top quark-pair production cross section with ATLAS in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2011, 71, 1.	3.9	146
34	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	145
35	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	3.9	145
36	Precision measurement and interpretation of inclusive $W^+W^-$ , $W^+W^-$ . European Physical Journal C, 2017, 77, 367.	3.9	145

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37	Measurement of the $\sigma(\overline{t}t\hat{A}^-)$ production cross-section using $\sqrt{s}=7$ TeV events with $b$ -tagged jets in $pp$ collisions at $\sqrt{s}=7$ and $8$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109.	3.9	143
38	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. European Physical Journal C, 2015, 75, 510.	3.9	138
39	Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	137
40	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	136
41	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 199.	3.9	132
42	Measurement of the $Z/\hat{A}^0$ boson transverse momentum distribution in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	131
43	ATLAS $b$ -jet identification performance and efficiency measurement with $t\bar{t}$ events in $pp$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	130
44	Observation of an excess in the search for the Standard Model Higgs boson at ALEPH. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 495, 1-17.	4.1	129
45	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
46	A study of coherence of soft gluons in hadron jets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 247, 617-628.	4.1	126
47	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+\tau^-$ in $\overline{t}t$ events using $pp$ collision data at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	126
48	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995.	3.9	125
49	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s}=13$ TeV $pp$ collisions using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	124
50	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.	3.9	123
51	Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.	3.9	121
52			



#	ARTICLE	IF	CITATIONS
73	A study of jet production rates and a test of QCD on the Z0 resonance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 235, 389-398.	4.1	92
74	Measurements of the $W^+W^-$ production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82.	3.9	92
75	Search for Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state from pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412.	3.9	90
76	Search for the $b\bar{b}\gamma\gamma$ 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.	4.7	89
77	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
78	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
79	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	3.9	87
80	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.	3.9	86
81	A Roadmap for HEP Software and Computing R&D for the 2020s. Computing and Software for Big Science, 2019, 3, 1.	2.9	85
82	Search for charginos nearly mass degenerate with the lightest neutralino in $e^+e^-$ collisions at centre-of-mass energies up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 533, 223-236.	4.1	84
83	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
84	Ganga: A tool for computational-task management and easy access to Grid resources. Computer Physics Communications, 2009, 180, 2303-2316.	7.5	83
85	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
86	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	3.9	82
87	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
88	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.	3.9	81
89	Search for dark matter at $\sqrt{s} = 13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. European Physical Journal C, 2017, 77, 393.	3.9	80
90	Search for production of $WW/WZ$ resonances decaying to a lepton, neutrino and jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 209.	3.9	79

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91	Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. European Physical Journal C, 2017, 77, 70.	3.9	79
92	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 565.	3.9	79
93	A search for acoplanar pairs of leptons or jets in ZO decays. Mass limits on supersymmetric particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 240, 261-270.	4.1	78
94	QCD studies with $e^+e^-$ annihilation data at 130 and 136 GeV. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 191-206.	1.5	78
95	Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-39.	4.7	78
96	Light-quark and gluon jet discrimination in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3023.	3.9	77
97	Search for dark matter in events with heavy quarks and missing transverse momentum in $pp$ collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 92.	3.9	77
98	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	77
99	Angular analysis of $B^0 \rightarrow \ell^+ \ell^- \ell^+ \ell^-$ decays in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	76
100	Final results of the searches for neutral Higgs bosons in $e^+e^-$ collisions at $s$ up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 191-205.	4.1	75
101	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	3.9	75
102	Measurement of quarkonium production in proton-lead and proton-proton collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.	3.9	75
103	A study of differences between quark and gluon jets using vertex tagging of quark jets. Zeitschrift für Physik C-Particles and Fields, 1993, 58, 387-403.	1.5	74
104	Search for resonant diboson production in the $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69.	3.9	74
105	Mass limits for a standard model Higgs Boson in $e^+e^-$ collisions at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 236, 224-232.	4.1	73
106	Measurement of the inclusive and dijet cross-sections of b-jets in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	73
107	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.	4.7	73
108	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. European Physical Journal C, 2016, 76, 666.	3.9	73



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109	Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 392.	3.9	73
110	Measurement of branching ratios and $\tilde{I}$ , polarization from $\tilde{I}, \tilde{e}^{\pm} \rightarrow \tilde{l} \gamma$ , $\tilde{I}, \tilde{e}^{\pm} \rightarrow \tilde{l} \gamma$ , and $\tilde{I}, \tilde{e}^{\pm} \rightarrow (K) \tilde{l}^{\pm}$ decays at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 266, 201-217.	4.1	72
111	A search for lepton flavour violating Z0 decays. Zeitschrift für Physik C-Particles and Fields, 1995, 67, 555-563.	1.5	72
112	Search for scalar leptons in $e^+e^-$ collisions at centre-of-mass energies up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 206-220.	4.1	72
113	Search for supersymmetry at $\sqrt{s} = 13 \text{ TeV}$ in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. European Physical Journal C, 2016, 76, 259.	3.9	72
114	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s} = 8 \text{ TeV}$ proton-proton collisions using the ATLAS experiment. Journal of High Energy Physics, 2013, 2013, 1.	4.7	71
115	Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	71
116	Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	71
117	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. European Physical Journal C, 2017, 77, 332.	3.9	71
118	A combined analysis of the hadronic and leptonic decays of the Z0. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 240, 497-512.	4.1	70
119	QCD studies using a cone-based jet finding algorithm for $e^+e^-$ collisions at LEP. Zeitschrift für Physik C-Particles and Fields, 1994, 63, 197-211.	1.5	70
120	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 303.	3.9	70
121	Search for resonances in diphoton events at $s = 13 \sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	70
122	Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tilde{l}, \tilde{l}^{\pm} \gamma$ in fully hadronic final states using pp collision data at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	69
123	Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2014, 74, 3157.	3.9	68
124	Search for new resonances in mass distributions of jet pairs using 139 fb $^{-1}$ of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	68
125	Measurement of charged-particle spectra in Pb+Pb collisions at $s_{NN} = 2.76 \text{ TeV}$ with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	4.7	67
126	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	3.9	67



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127	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.	4.7	67
128	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.	4.7	66
129	A search for $t\bar{t}\tilde{A}$ 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.	4.7	66
130	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.	3.9	66
131	The ATLAS semiconductor tracker end-cap module. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 575, 353-389.	1.6	65
132	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	65
133	Measurement of the $W\tilde{A}$ , $W\tilde{A}^{1/2}$ and $Z\tilde{A}^3$ production cross sections in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1.	4.7	64
134	Measurement of isolated-photon pair production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	64
135	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.	3.9	64
136	Evidence for the $H\rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	64
137	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.	3.9	64
138	The silicon microstrip sensors of the ATLAS semiconductor tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 98-118.	1.6	63
139	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.	3.9	63
140	Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 120.	3.9	62
141	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.	3.9	62
142	Readiness of the ATLAS liquid argon calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 723-753.	3.9	61
143	Measurement of ZZ production in pp collisions at $\sqrt{s}=7$ TeV and limits on anomalous ZZZ and ZZ $\tilde{A}$ couplings with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	61
144	Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	3.9	61

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145	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.	3.9	61
146	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.	3.9	61
147	Prompt and non-prompt $J/\psi$ and $\psi(2S)$ suppression at high transverse momentum in $5.02$ TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	3.9	61
148	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58.	3.9	61
149	Search for charged Higgs bosons in $e^+e^-$ collisions at energies up to $\sqrt{s} = 10.58$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 543, 1-13.	4.1	60
150	Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. European Physical Journal C, 2011, 71, 1.	3.9	60
151	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.	4.7	60
152	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.	4.7	60
153	Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $u\bar{u} \rightarrow b\bar{b} \gamma^* \rightarrow b\bar{b} H$ final states with the ATLAS detector. European Physical Journal C, 2015, 75, 263.	3.9	60
154	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-proton collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 199.	3.9	60
155	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.	3.9	60
156	A study of Bose-Einstein correlations in $e^+e^-$ annihilations at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 267, 143-153.	4.1	59
157	Measurement of $W \pm Z$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	3.9	59
158	Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	59
159	Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	59
160	Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	59
161	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.	3.9	59
162	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \tau^-$ , $H \rightarrow \tau^+ \tau^- \nu_\tau$ , in the $\tau^+ \tau^-$ , jets and $\tau^+ \tau^-$ lepton final states with 36 fb $^{-1}$ of pp collision data recorded at $\sqrt{s} = 13$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	4.7	59

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163	Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s}=7$ TeV in 2010. European Physical Journal C, 2014, 74, 3034.	3.9	58
164	Measurements of $B^0$ - $\bar{B}^0$ mixing, $\frac{\Gamma(Z^0 \rightarrow b\bar{b})}{\Gamma(Z^0 \rightarrow \text{hadrons})}$ and semileptonic branching ratios for $b$ -flavoured hadrons in hadronic $Z^0$ decays. Zeitschrift für Physik C-Particles and Fields, 1993, 60, 199-216.	1.5	57
165	Measurement of the W boson polarization in top quark decays with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	57
166	Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	56
167	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.	3.9	56
168	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.	3.9	56
169	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.	4.7	56
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308	Absolute lower limits on the masses of selectrons and sneutrinos in the MSSM. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 544, 73-88.	4.1	33
309	Inclusive search for same-sign dilepton signatures in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	33
310	Measurement of jet shapes in top-quark pair events at $\sqrt{s} = 7$ TeV using the ATLAS detector. European Physical Journal C, 2013, 73, 2676.	3.9	33
311	Analysis of events with b-jets and a pair of leptons of the same charge in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	33
312	Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	33
313	Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	33
314	Measurements of $\tilde{\chi}(2S)$ and $X(3872) \rightarrow J/\psi \tilde{\chi} + \tilde{\chi} \tilde{\chi}$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	33
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316	A direct search for new charged heavy leptons at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 240, 250-260.	4.1	32
317	Search for anomalous production of high mass photon pairs in $e^+e^-$ collisions at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 311, 391-407.	4.1	32
318	Measurement of the longitudinal, transverse and asymmetry fragmentation functions at LEP. Zeitschrift für Physik C-Particles and Fields, 1995, 68, 203-213.	1.5	32
319	Search for third generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	32
320	Measurement of $\tilde{\chi}^0 c1$ and $\tilde{\chi}^0 c2$ production with $\sqrt{s} = 7$ TeV pp collisions at ATLAS. Journal of High Energy Physics, 2014, 2014, 1.	4.7	32
321	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.	3.9	32
322	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $4\ell$ decay channel at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	32
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324	Topological search for the production of neutralinos and scalar particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 377, 273-288.	4.1	31

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326	Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in $\sqrt{s}=7$ TeV proton–proton collisions. European Physical Journal C, 2012, 72, 1.	3.9	31
327	Measurement of the differential cross-section of B + meson production in pp collisions at $\sqrt{s}=7$ TeV at ATLAS. Journal of High Energy Physics, 2013, 2013, 1.	4.7	31
328	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.	3.9	31
329	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.	4.7	31
330	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.	4.7	31
331	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.	4.7	31
332	Search for W W/W Z resonance production in $\ell\ell$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	31
333	Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	31
334	Measurement of triple gauge-boson couplings at 172 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 422, 369-383.	4.1	30
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336	Measurement of the $t\bar{t} \rightarrow t\bar{t} + n$ production cross-section as a function of jet multiplicity and jet transverse momentum in 7 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
337	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.	4.7	30
338	Charged-particle distributions in pp interactions at $\sqrt{s}=8$ TeV measured with the ATLAS detector. European Physical Journal C, 2016, 76, 403.	3.9	30
339	Searches for the $Z\tilde{\chi}^0_1$ 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.	4.7	30
340	Study of $WW\gamma$ and $WZ\gamma$ production in pp collisions at $s=7$ TeV with the ATLAS experiment. European Physical Journal C, 2017, 77, 646.	3.9	30
341	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.	4.7	30
342	Searches for third-generation scalar leptoquarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	30



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344	Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	29
345	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.	3.9	29
346	Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
347	Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
348	Searches for heavy ZZ and ZW resonances in the $\gamma\gamma$ , $\gamma q\bar{q}$ and $\ell\ell/2\ell/2q\bar{q}$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
349	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.	3.9	29
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352	Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at $s = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	28
353	Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$ . European Physical Journal C, 2017, 77, 804.	3.9	28
354	Measurement of $WW/WZ \rightarrow \ell\ell uq\bar{q}'$ $WW/WZ \rightarrow \ell\ell \gamma\gamma$ $\ell\ell q\bar{q}$ $\ell\ell q\bar{q}$ 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.	3.9	28
355	Measurement of the Drell-Yan triple-differential cross section in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	28
356	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow a_0 a_0$ channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	28
357	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.	3.9	28
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360	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.	3.9	28

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362	A measurement of charged particle multiplicity in $Z \rightarrow c\bar{c}$ , and $Z \rightarrow b\bar{b}$ , events. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 352, 176-186.	4.1	27
363	Measurement of the multiplicity of charm quark pairs from gluons in hadronic Z0 Decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 353, 595-605.	4.1	27
364	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.	3.9	27
365	Measurement of the $WW + WZ$ cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	27
366	Measurements of top-quark pair differential cross-sections in the $e^+e^- \rightarrow t\bar{t}$ channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. European Physical Journal C, 2017, 77, 292.	3.9	27
367	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. European Physical Journal C, 2018, 78, 625.	3.9	27
368	Search for single production of vector-like quarks decaying into $Wb$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	27
369	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. Journal of High Energy Physics, 2019, 2019, 1.	4.7	27
370	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\tau$ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
371	Search for sleptons in $e^+e^-$ collisions at centre-of-mass energies up to 184 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 433, 176-194.	4.1	26
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373	Bose-Einstein correlations in $W$ -pair decays with an event-mixing technique. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 606, 265-275.	4.1	26
374	Measurements of electroweak $WWjj$ production and constraints on anomalous gauge couplings with the ATLAS detector. European Physical Journal C, 2017, 77, 474.	3.9	26
375	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $e^+e^- \rightarrow b\bar{b}H$ and $e^+e^- \rightarrow WWH$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	26
376	Search for excited leptons at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 244, 135-142.	4.1	25
377	A measurement of $(892)^{\pm}$ production in hadronic Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 305, 407-414.	4.1	25
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380	A first measurement of the $\hat{b}$ and $\hat{b}^*$ ( $\hat{b}$ ) spin compositions in hadronic $Z^0$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 377-387.	4.1	25
381	QCD corrections to the forward-backward asymmetries of $c$ and $b$ quarks at the $Z$ pole. European Physical Journal C, 1998, 4, 185-191.	3.9	25
382	A search for $\text{Star}\{t\}$ resonances with the ATLAS detector in $2.05\text{ fb}^{-1}$ of proton-proton collisions at $\sqrt{s} = 7\text{--}13\text{ TeV}$ . European Physical Journal C, 2012, 72, 2083.	3.9	25
383	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.	3.9	25
384	Measurement of the low-mass Drell-Yan differential cross section at $\sqrt{s} = 7\text{ TeV}$ using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	25
385	Determination of the top-quark pole mass using $t\bar{t} \rightarrow \text{toverline}\{t\} + 1\text{-jet}$ events collected with the ATLAS experiment in $7\text{ TeV}$ $pp$ collisions. Journal of High Energy Physics, 2015, 2015, 1.	4.7	25
386	Searches for heavy diboson resonances in $pp$ collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	25
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392	A measurement of the $\hat{b}^0$ lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 353, 402-412.	4.1	24
393	The production of neutral kaons in $Z^0$ decays and their Bose-Einstein correlations. Zeitschrift für Physik C-Particles and Fields, 1995, 67, 389-401.	1.5	24
394	Multiplicity dependence of Bose-Einstein correlations in hadronic $Z^0$ decays. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 389-398.	1.5	24
395	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 $13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 605.	3.9	24
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398	Measurement of fiducial and differential $W^+W^-$ production cross-sections at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	24
399	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	24
400	Scalar quark searches in $e^+e^-$ collisions at $s=181\text{--}184\text{ GeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 189-199.	4.1	23
401	Searches for sleptons and squarks in $e^+e^-$ collisions at 189 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 303-314.	4.1	23
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403	Search for $\tilde{\chi}_1^0\tilde{\chi}_1^0$ decays of a Higgs boson in $e^+e^-$ collisions at $s$ up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 544, 16-24.	4.1	23
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405	A measurement of the ratio of the production cross sections for $W^+W^-$ and $ZZ$ bosons in association with jets with the ATLAS detector. European Physical Journal C, 2014, 74, 3168.	3.9	23
406	Measurement of the underlying event in jet events from $7\text{ TeV}$ proton–proton collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 1.	3.9	23
407	A search for high-mass resonances decaying to $\tilde{L}, \tilde{L}^*$ in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	23
408	Measurement of three-jet production cross-sections in $pp$ collisions at $\sqrt{s}=7\text{ TeV}$ centre-of-mass energy using the ATLAS detector. European Physical Journal C, 2015, 75, 228.	3.9	23
409	Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 541.	3.9	23
410	Measurement of the inclusive jet cross-sections in proton-proton collisions at $s=8\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
411	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 $\sqrt{s}=13\text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.	4.7	23
412	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	2.9	23
413	A measurement of photon radiation in lepton pair events from $Z^0$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 273, 338-354.	4.1	22
414	A measurement of the forward-backward charge asymmetry in hadronic decays of the $Z^0$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 294, 436-450.	4.1	22

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415	A search for doubly charged Higgs production in $Z^0$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 295, 347-356.	4.1	22
416	Measurement of $B^0 \rightarrow \pi^0$ mixing in hadronic $Z^0$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 276, 379-392.	4.1	22
417	A measurement of $ V_{cb} $ using decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 395, 128-140.	4.1	22
418	A measurement of the gluon splitting rate into pairs in hadronic $Z$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 437-450.	4.1	22
419	Search for charged Higgs bosons in $e^+e^-$ collisions at energies up to $\sqrt{s} = 189$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 487, 253-263.	4.1	22
420	Searches for neutral Higgs bosons in $e^+e^-$ collisions at centre-of-mass energies from 192 to 202 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 499, 53-66.	4.1	22
421	Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	22
422	Measurement of the centrality and pseudorapidity dependence of the integrated elliptic flow in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 2982.	3.9	22
423	Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	22
424	Measurement of the $t\bar{t} \rightarrow W^+W^-$ and $t\bar{t} \rightarrow Z^0Z^0$ production cross sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	22
425	Study of (W/Z)H production and Higgs boson couplings using $H \rightarrow W^+W^-$ decays with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	22
426	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	22
427	Measurements of top-quark pair spin correlations in the $t\bar{t} \rightarrow \mu^+\mu^-$ channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	22
428	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. Journal of High Energy Physics, 2021, 2021, 1.	4.7	22
429	Measurement of the tau lepton lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 273, 355-366.	4.1	21
430	A study of two-particle momentum correlations in hadronic $Z^0$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 287, 401-412.	4.1	21
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432	Measurement of the production cross-section of $\tilde{t}(2S) \rightarrow J/\psi (\rightarrow \ell^+\ell^-) \tilde{t} \rightarrow \tilde{t} \rightarrow \ell^+\ell^-$ in pp collisions at $\sqrt{s} = 7$ TeV at ATLAS. Journal of High Energy Physics, 2014, 2014, 1.	4.7	21

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434	The performance of the jet trigger for the ATLAS detector during 2011 data taking. European Physical Journal C, 2016, 76, 526.	3.9	21
435	Search for the Standard Model Higgs boson decaying into $b\bar{b}$ produced in association with top quarks decaying hadronically in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	21
436	Search for Higgs boson pair production in the $WW^*WW^*$ decay channel using ATLAS data recorded at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	21
437	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, .	3.9	21
438	Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV and decaying into collimated leptons or light hadrons with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	21
439	$\Sigma^+ \rightarrow \pi^+ \pi^- \pi^0$ , $\Sigma^0 \rightarrow \pi^+ \pi^- \pi^0$ and $\Sigma^- \rightarrow \pi^- \pi^+ \pi^0$ hyperon production in hadronic $Z^0$ decays. Zeitschrift für Physik C-Particles and Fields, 1997, 73, 587-599.	1.5	20
440	Updated measurement of the $\tau$ , lepton lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 362-372.	4.1	20
441	Search for new phenomena in events with three or more charged leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	20
442	Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	20
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486	Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ with ATLAS. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17



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524	Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $W\gamma$ with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
525	Search for strong gravity in multijet final states produced in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
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536	Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
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539	Measurement of $VH$ , $\mathcal{H} \rightarrow b\bar{b}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
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543	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s}=13, \text{ext } \{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 1.	3.9	14
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545	Search for $\overline{t}t$ resonances in fully hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
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563	Search for new phenomena in high-mass final states with a photon and a jet from $pp \rightarrow \gamma + \text{jet}$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 102.	3.9	13
564	Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
565	Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	13
566	A study of charm hadron production in $e^+e^- \rightarrow c\bar{c}$ and $e^+e^- \rightarrow b\bar{b}$ decays at LEP. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 1-16.	1.5	13
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572	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
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578	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
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580	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. European Physical Journal C, 2021, 81, 1.	3.9	12
581	Search for supersymmetry in events with four or more charged leptons in $139 \text{ fb}^{-1}$ of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
582	Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	12
583	Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
584	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	3.9	12
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590	Prompt production in hadronic Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 343-352.	4.1	11
591	Determination of AFBb using jet charge measurements in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 426, 217-230.	4.1	11
592	Measurement of the W mass in $e^+e^-$ collisions at 183 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 453, 121-137.	4.1	11
593	Search for an invisibly decaying Higgs boson in $e^+e^-$ collisions at 189 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 466, 50-60.	4.1	11
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595	Measurement of $W^{\pm 3}$ and $Z^{\pm 3}$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	11
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606	Search for scalar top and scalar bottom quarks using the OPAL detector at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 389, 197-210.	4.1	10
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611	Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	10
612	Search for direct top squark pair production in final states with two tau leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 81.	3.9	10

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615	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W\Delta$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
616	Measurement of $J/\psi$ production in association with a $W\Delta$ boson with pp data at 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	10
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618	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.	4.7	10
619	Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10

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631	Measurement of the ZZ production cross section in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ using the ZZ $\hat{\sigma}$ , $\hat{\sigma}^{\prime}$ , $\hat{\sigma}^{\prime\prime}$ , $\hat{\sigma}^{\prime\prime\prime}$ and Z Z $\hat{\sigma}$ , $\hat{\sigma}^{\prime}$ , $\hat{\sigma}^{\prime\prime}$ , $\hat{\sigma}^{\prime\prime\prime}$ + $\hat{\sigma}^{\prime\prime\prime\prime}$ decay channels with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.		
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633	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	9
634	Measurement of the Z( $\hat{\sigma}$ , $\hat{\sigma}^{\prime}$ , $\hat{\sigma}^{\prime\prime}$ ) $\hat{\sigma}^{\prime\prime\prime}$ production cross-section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	9
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645	Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
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647	Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	8
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662	Measurement of the $B^0$ meson lifetimes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 492, 275-287.	4.1	7
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664	Measurement of $\sigma_{\text{pol}}$ , polarisation in $Z/\gamma^* \rightarrow u\bar{u}$ . European Physical Journal C, 2018, 78, 163.	3.9	7
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668	Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	7
669	W 2 and Q 2 dependence of charged hadron and pion multiplicities invp and $\sqrt{s}$ vp charged current interactions. Zeitschrift für Physik C-Particles and Fields, 1990, 46, 25-34.	1.5	6
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673	Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ and 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
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675	Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	6
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682	Final $\hat{s}$ combinations from the LEP QCD Working Group. Nuclear Physics, Section B, Proceedings Supplements, 2006, 152, 15-22.	0.4	5
683	Search for Higgs bosons decaying to WW in $e^+e^-$ collisions at LEP. European Physical Journal C, 2007, 49, 439.	3.9	5
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686	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. European Physical Journal C, 2021, 81, 1.	3.9	5
687	Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb <sup>-1</sup> of ATLAS data. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
688	The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1.	3.9	5
689	Production of charmed hadrons in neutrino proton and antineutrino proton charged current interactions. Zeitschrift für Physik C-Particles and Fields, 1987, 36, 593-601.	1.5	4
690	Inclusive $\pi^0$ (1270) meson production in $\nu p$ and $\bar{\nu} p$ charged current interactions. Zeitschrift für Physik C-Particles and Fields, 1991, 51, 205-208.	1.5	4
691	Measurement of the average b-baryon lifetime and the product branching ratio $\mathcal{B}(b \rightarrow \Lambda_b) \cdot \mathcal{B}(\Lambda_b \rightarrow \Lambda e^+ \nu_e)$ . Zeitschrift für Physik C-Particles and Fields, 1995, 69, 195-214.	1.5	4
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696	Search for excited electrons singly produced in proton-antiproton collisions at $\sqrt{s} \approx 13$ TeV with the ATLAS experiment at the LHC. European Physical Journal C, 2019, 79, .	3.9	4
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698	Measurement of hadronic event shapes in high-pT multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
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702	Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4

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713	Measurement of isolated-photon plus two-jet production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	3
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724	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $(\sqrt{s}=8-13)$ TeV with the ATLAS detector. , 2015, 75, 1.		2
725	Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
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