

# Giulio Aielli

## List of Publications by Year in descending order

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1,119  
papers

72,343  
citations

1099

112  
h-index

1505

219  
g-index

1145  
all docs

1145  
docs citations

1145  
times ranked

18860  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 1-29.	4.1	6,386
2	Review of Particle Physics. Physical Review D, 2018, 98, .	4.7	5,390
3	Review of Particle Physics. Progress of Theoretical and Experimental Physics, 2020, 2020, .	6.6	3,177
4	The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.	1.2	1,752
5	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	3.9	1,187
6	Combined Measurement of the Higgs Boson Mass in $pp$ Collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	7.8	1,062
7	Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 252303.	7.8	581
8	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	3.9	489
9	Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC $pp$ collision data at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	473
10	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
11	Observation of Associated Near-Side and Away-Side Long-Range Correlations in $pp$ Collisions with the ATLAS Detector. Physical Review Letters, 2013, 110, 182302.	3.9	434
12	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
13	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
14	Measurement of the azimuthal anisotropy for charged particle production in lead-lead collisions with the ATLAS detector. Physical Review C, 2012, 86, .	2.9	365
15	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
16	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
17	Combined search for the Standard Model Higgs boson using up to $4.9 \text{ fb}^{-1}$ of $pp$ collision data at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 49-66.	4.1	341
18	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	3.9	325

#	ARTICLE	IF	CITATIONS
19	Charged-particle multiplicities in $pp$ interactions measured with the ATLAS detector at the LHC. <i>New Journal of Physics</i> , 2011, 13, 053033.	2.9	314
20	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.	4.1	307
21	Performance of pile-up mitigation techniques for jets in $pp$ collisions at $\sqrt{s}=8$ . <i>European Physical Journal C</i> , 2016, 76, 581.	3.9	298
22	Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 88-119.	4.1	295
23	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.	3.9	279
24	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.	3.9	274
25	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.	3.9	268
26	Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , 2012, 72, 1.	3.9	259
27	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2012, 72, 1.	3.9	248
28	Combined measurements of Higgs boson production and decay using up to $80\%$ of proton-proton collision data at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2020, 101, .	4.7	241
29	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.	3.9	238
30	Search for high-mass dilepton resonances in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2014, 90, .	4.7	237
31			

#	ARTICLE	IF	CITATIONS
37	Measurement of Higgs boson production in the diphoton decay channel in $pp$ collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2014, 90, .	4.7	214
38	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.	3.9	213
39	Jet energy resolution in proton-proton collisions at $\sqrt{s}=7$ TeV recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , 2013, 73, 2306.	3.9	209
40	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.	3.9	204
41	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.	3.9	197
42	Search for high-mass dilepton resonances using 139 fb <sup>-1</sup> of $pp$ collision data collected at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 784, 173-191.	4.1	196
43	Search for lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 729, 1-12.	4.1	195
44	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.	7.8	185
45	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 903.	3.9	181
46	Luminosity determination in $pp$ collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2011, 71, 1.	3.9	179
47	Measurement of the Higgs boson mass from the $H \rightarrow \gamma\gamma$ decay channel using 36.1 fb <sup>-1</sup> of $pp$ collision data with the ATLAS detector. <i>Physical Review Letters</i> , 2012, 109, 171801.	4.7	176
48	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. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	175
49	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 476.	3.9	174
50	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	172
51	Search for the Standard Model Higgs Boson in the Diphoton Decay Channel with $\sqrt{s} = 13$ TeV $pp$ Collision Data at the ATLAS Detector. <i>Physical Review Letters</i> , 2016, 117, 182002.	7.8	171
52	Measurement with the ATLAS detector of multi-particle azimuthal correlations in $pp$ collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2018, 121, 171801.	4.1	169
53	Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 784, 173-191.	4.1	169
54	Search for Scalar Diphoton Resonances in the Mass Range 65-600 GeV with the ATLAS Detector in $pp$ Collision Data at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2014, 113, 171801.	7.8	168

#	ARTICLE	IF	CITATIONS
55	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
56	Measurement of the differential cross-sections of inclusive, prompt and non-prompt $\mu^+\mu^-$ production in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Physical Review D, 2015, 91, 012004.	2.5	163
57	Measurement of the inclusive $\mu^+\mu^-$ production and performance of RPCs used in the Argo-YB experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 548, 1-10.	1.6	160
58	Measurement of the inclusive $W^+W^-$ and $Z\nu$ cross-sections in the $\mu^+\mu^-$ channel in proton-proton collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, 012004.	4.7	158
59	Measurements of Higgs boson production and couplings in the four-lepton channel in proton-proton collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, 012004.	4.7	157
60	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Physical Review D, 2017, 96, 012004.	4.7	157
61	Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Nuclear Physics B, 2014, 889, 486-548.	2.5	155
62	Measurement of the transverse momentum and $p_T$ 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
63	Measurement of hard double-parton interactions in $(\hat{s} + \hat{t}) + 2$ -jet events at $\sqrt{s}=7$ TeV with the ATLAS detector. New Journal of Physics, 2013, 15, 033038.	2.9	147
64	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
65	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
66	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	3.9	145
67	Precision measurement and interpretation of inclusive $W^+W^-$ production with ATLAS in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2017, 77, 367.	3.9	145
68	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s}=8$ TeV with the ATLAS Detector. Physical Review Letters, 2018, 121, 211801.	7.8	145
69	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s}=8$ TeV pp collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 710, 67-85.	4.7	145
70	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.	3.9	143
71	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
72	Observation of $H \rightarrow b\bar{b}$ decays and VH production with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 359, 1-12.	4.1	138

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73	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
74	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector in $pp$ collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	137
75	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.	7.8	136
76	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
77	Measurement of inclusive jet and dijet production in $pp$ collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physical Review D, 2012, 86, .	4.7	135
78	Measurements of the Nuclear Modification Factor for Jets in $Pb-Pb$ Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 90, .	7.8	135
79	Measurement of event-plane correlations in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review C, 2014, 90, .	7.9	134
80	Charged-particle multiplicities in $pp$ interactions at $\sqrt{s} = 7$ TeV. Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 21-42.	7.9	134
81	Search for invisible 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.	7.8	133
82	Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801.	7.8	133
83	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
84	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.	4.7	131
85	Search for Invisible Decays of a Higgs Boson Produced in Association with a $Z$ Boson in ATLAS. Physical Review Letters, 2014, 112, .	7.8	130
86	ATLAS b-jet identification performance and efficiency measurement with $pp$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	130
87	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.	7.8	129
88	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, 2013, 2013, 1.	4.7	128
89	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $pp$ collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.1	126
90	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \tau^-$ in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	126
90	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	126

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91	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13\text{ TeV}$ $s = 13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 995.	3.9	125
92	Electron and photon performance measurements with the ATLAS detector using the 2015–2017 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P12006-P12006.	1.2	124
93	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s}=13\text{ TeV}$ $pp$ collisions using the ATLAS detector. Physical Review D, 2020, 80, 1.	3.9	124
94	Evidence for Electroweak Production of $\tilde{W}\tilde{W}^*$ Collisions at $\sqrt{s}=13\text{ TeV}$ $pp$ collisions using the ATLAS detector. Physical Review D, 2019, 80, 1.	7.8	123
95	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in $pp$ collisions at $\sqrt{s}=8\text{ TeV}$ $s = 8\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 349.	3.9	123
96	Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.	3.9	121
97	Measurement of the inclusive isolated prompt photon cross section in $pp$ collisions at $\sqrt{s}=13\text{ TeV}$ $pp$ collisions using the ATLAS detector. Physical Review D, 2011, 83, 1.	4.7	121
98			

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109	Measurement of inclusive jet and dijet cross sections in $\sqrt{s}=7$ TeV proton-proton collisions at the ATLAS detector. European Physical Journal C, 2011, 71, 1. Search for new phenomena in dijet events using $\frac{d\sigma}{d\eta d\eta' d\eta''}$	3.9	114
110	Search for New Particles in Two-Jet Final States in $\sqrt{s}=7$ TeV Proton-Proton Collisions with the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 161801. Measurement of the t-channel single top-quark production cross section in pp collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2017, 96, .	4.7	114
111	Measurement of the t-channel single top-quark production cross section in pp collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2017, 96, .	7.8	113
112	Measurement of the t-channel single top-quark production cross section in pp collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2017, 96, .	4.1	113
113	Ph		



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127	Measurement of the inclusive jet cross-section in pp collisions at $\sqrt{s}=2.76$ TeV and comparison to the inclusive jet cross-section at $\sqrt{s}=7$ TeV using the ATLAS detector. European Physical Journal C, 2013, 73, 2509.	3.9	105
128	Search for Dark Matter Candidates and Large Extra Dimensions in Events with a Photon and Missing Transverse Momentum in pp Collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Collision Data at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2509.	7.8	105
129	Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	102
130	Search for heavy neutrinos and right-handed W bosons in events with two leptons and jets in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 2056.	3.9	101
131	Search for Higgs boson pair production in the $ZZ$ final state using proton-proton collision data at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 2056.	4.7	101
132	Search for heavy ZZ resonances in the $ZZ$ final states using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	3.9	101
133	Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	100
134	Search for high-mass diphoton resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .	4.7	99
135	Search for Higgs Boson Pair Production in the $ZZ$ Final State Using pp Collision Data at $\sqrt{s}=8$ TeV from the ATLAS Detector. Physical Review Letters, 2015, 114, 081802.	7.8	98
136	Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 760, 760.	4.7	98
137	Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collision Data at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 760, 760.	4.7	98
138	Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collision Data at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 760, 760.	7.8	97
139	The ATLAS Inner Detector commissioning and calibration. European Physical Journal C, 2010, 70, 787-821.	3.9	95
140	Constraints on the off-shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector. European Physical Journal C, 2015, 75, 335.	3.9	95
141	Search for new phenomena in events with at least three photons collected in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 210.	3.9	95
142	Search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ$ with the ATLAS detector. European Physical Journal C, 2012, 72, 2056.	4.7	95
143	Constraints on the rapidity dependence of inclusive jet production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 392-413.	4.1	93
144	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	3.9	93

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145	Measurements of the $W$ production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82.	3.9	92
146	Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412.	4.7	91
147	Search for dark matter in events with a $Z$ boson and missing transverse momentum in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412.	7.8	90
148	Search for Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state from $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412.	4.7	90
149	Search for the $b\bar{b}\hat{A}$ 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
151	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
152	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
153	Measurement of $W$ and $Z$ -boson production cross sections in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 601-621.	3.9	88
154	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	3.9	87
155	Measurement of multi-particle azimuthal correlations in $pp$ , $p\bar{A}$ and low-multiplicity $Pb\bar{A}$ collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	3.9	86
156	Measurement of the correlation between flow harmonics of different order in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physical Review C, 2015, 92, .	4.7	84
157	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
158	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
159	Observation of an Excited $B_c$ State with the ATLAS Detector. Physical Review Letters, 2014, 113, 212004.	3.9	82
160	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
161	Search for Dilepton Resonances in $pp$ Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector. Physical Review Letters, 2011, 107, 272002.	7.8	81
162	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

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163	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. Observation of Spin Correlation in $t\bar{t}$ Events from $\sqrt{s} = 8$ TeV Collisions at ATLAS. European Physical Journal C, 2017, 77, 76.	3.9	81
164	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.	7.8	80
165	Searches for electroweak production of supersymmetric particles with compressed mass spectra in $t\bar{t}$ events at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 393.	3.9	80
166	Search for production of $W$ or $Z$ resonances decaying to a lepton, neutrino and jets in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 209.	4.7	80
167	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
168	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
169	Measurement of $\chi_{c0}$ production in $t\bar{t}$ collisions at ATLAS. Physical Review D, 2013, 87, .	4.7	78
170	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
171	Evidence for the associated production of a $W$ boson and a top quark in ATLAS at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 142-159.	3.9	77
172	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
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669	Measurement of the inclusive jet cross-sections in proton-proton collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
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688	Searches for scalar leptoquarks and differential cross-section measurements in dilepton+dijet events in proton-proton collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS experiment. European Physical Journal C, 2019, 79, 1.	3.9	22
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756	Measurement of colour flow with the jet pull angle in $t\bar{t}$ events using the ATLAS detector at $\sqrt{s} = 7 \text{ TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 717, 49-69.	4.1	18

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757	Search for resonances in the mass distribution of jet pairs with one or two jets identified as $b$ -jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 767, 68-69.	4.7	18
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812	Measurement of colour flow using jet-pull observables in $t\bar{t}$ events with the ATLAS experiment at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 847.	3.9	16
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