

Andrea Coccaro

List of Publications by Year in descending order

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874
papers

58,181
citations

1301

109
h-index

2571

195
g-index

899
all docs

899
docs citations

899
times ranked

14199
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 1-29.	4.1	6,386
2	The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.	1.2	1,752
3	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	3.9	1,187
4	Combined Measurement of the Higgs Boson Mass in Collisions at $\sqrt{s} = 7$ and 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 49-66.	7.8	1,062
5	Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 252303.	7.8	581
6	ATLAS pixel detector electronics and sensors. Journal of Instrumentation, 2008, 3, P07007-P07007.	1.2	494
7	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	3.9	489
8	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
9	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
10	Observation of Associated Near-Side and Away-Side Long-Range Correlations in pp Collisions with the ATLAS Detector. Physical Review Letters, 2013, 110, 182302.	7.8	441
11	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
12	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
13	Measurement of the azimuthal anisotropy for charged particle production in lead-lead collisions with the ATLAS detector. Physical Review C, 2012, 86, 054907.	2.9	365
14	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
15	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
16	Combined search for the Standard Model Higgs boson using up to 4.9 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.	7.8	325
17	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	3.9	325
18	Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC. New Journal of Physics, 2011, 13, 053033.	2.9	314

#	ARTICLE	IF	CITATIONS
19	Evidence for the spin-0 nature of the Higgs boson using ATLAS data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 120-144.	4.1	307
20	Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s}=8$. European Physical Journal C, 2016, 76, 581.	3.9	298
21	Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 88-119.	4.1	295
22	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
23	Performance of b -jet identification in the ATLAS experiment. Journal of Instrumentation, 2016, 11, P04008-P04008.	1.2	278
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. European Physical Journal C, 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. European Physical Journal C, 2015, 75, 17.	3.9	268
26	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	3.9	259
27	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
28	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
29	Search for W and Z boson resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Physical Review D, 2014, 90, 112005.	4.7	237
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#	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	Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and Hadronic Physics</i> , 2015, 345, 277.	4.1	195
43	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
44	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
45	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
46	Measurement of the Higgs boson mass from the $H \rightarrow \tau\tau$ decay channel using pp collision data at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2012, 108, 111803.	4.7	176
47	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
48	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
49	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
50	Search for the Standard Model Higgs Boson in the Diphoton Decay Channel with pp Collision Data at $\sqrt{s} = 4.9$ TeV. <i>Physical Review Letters</i> , 2012, 108, 111803.	7.8	171
51	Measurement of the differential cross-sections of inclusive, prompt and non-prompt $H \rightarrow \tau\tau$ decays in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2014, 113, 171801.	4.1	169
52	Search for Scalar Diphoton Resonances in the Mass Range 65-600 GeV with the ATLAS Detector in pp Collision Data at $\sqrt{s} = 7$ and 8 TeV. <i>Physical Review Letters</i> , 2014, 113, 171801.	7.8	168
53	Search for new high-mass phenomena in the dilepton final state using 36 fb ⁻¹ of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	168
54	Measurement of the differential cross-sections of inclusive, prompt and non-prompt $H \rightarrow \tau\tau$ production in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2014, 113, 171801.	2.5	163

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55	Measurement of the inclusive $W \rightarrow Z \nu \nu$ cross sections in the $Z \rightarrow \nu \nu$ channels with the ATLAS detector. Physical Review D, 2015, 91, 112004.	4.7	158
56	Measurements of Higgs boson production and couplings in the four-lepton channel in $pp \rightarrow H \rightarrow 4\ell$ collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, 112004.	4.7	158
57	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, 012002.	4.7	157
58	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
59	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
60	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
61	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
62	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	3.9	145
63	Precision measurement and interpretation of inclusive $W^+ W^+, W^+ W^-, W^- W^+$. European Physical Journal C, 2017, 77, 367.	3.9	145
64	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 67-85.	4.7	143
65	Measurement of the $t \bar{t} \rightarrow t \bar{t} + b \bar{b}$ production cross-section using $e^+ e^- \rightarrow t \bar{t} + b \bar{b}$ events with b -tagged jets in $pp \rightarrow pp$ collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109.	3.9	143
66	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
67	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
68	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in $pp \rightarrow p \nu$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2011, 106, 131802.	4.7	137
69	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
70	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
71	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
72	Measurements of the Nuclear Modification Factor for Jets in $pp \rightarrow Pb$ Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2015, 114, 072302.	7.8	135

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73	Measurement of event-plane correlations in lead-lead collisions with the ATLAS detector. Physical Review C, 2014, 90, .	2.9	134
74	Charged-particle multiplicities in pp interactions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector. Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 21-42.	4.1	118
75	Searching for long-lived particles beyond the Standard Model at the Large Hadron Collider. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 090501.	3.6	133
76	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
77	Measurement of the Z/γ^* 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
78	Search for Invisible Decays of a Higgs Boson Produced in Association with a Z/γ^* Boson in ATLAS. Physical Review Letters, 2014, 112, .	7.8	130
79	ATLAS b-jet identification performance and efficiency measurement with $\sqrt{s} = 13$ TeV events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	130
80	Search for Dark Matter in Events with a Hadronically Decaying W 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
81	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s} = 8$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.	4.7	128
82	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2018, 78, 199.	4.1	126
83	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \tau^-$ in $\sqrt{s} = 7$ TeV 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
84	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in $\sqrt{s} = 13$ TeV pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995.	4.7	126
85	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
86	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
87	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in $\sqrt{s} = 13$ TeV pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995.	7.8	123
88	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in $\sqrt{s} = 8$ TeV pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349.	3.9	123
89	Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.	3.9	121
90	Measurement of the inclusive isolated prompt photon cross section in $\sqrt{s} = 7$ TeV pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physical Review D, 2011, 83, .	4.7	121

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109	Observation and measurement of Higgs boson decays to WW at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .	4.7	110
110	Measurement of σ production with a veto on additional central jet activity in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. European Physical Journal C, 2012, 72, 2043.	3.9	109
111	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in lead-lead collisions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 363-382.	4.7	109
112	Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 5.	3.9	109
113	Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	108
114	Search for heavy resonances decaying into WW in the $e^+e^- \rightarrow \mu^+\mu^- + \gamma$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.	3.9	108
115	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	2.6	108
116	Measurement of the centrality dependence of Z production yields and observation of Z production in lead-lead collisions with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 294-315.	4.1	107
117	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
118	Transverse Momentum in Collision Data at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	7.8	105
119	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
120	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
121	Searches for Higgs boson pair production in the hh final state using proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	4.7	101
122	Search for heavy ZZ resonances in the $e^+e^- \rightarrow \mu^+\mu^- + \gamma$ final states using proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	3.9	101
123	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
124	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
125	Search for Higgs Boson Pair Production in the hh Final State Using pp Collision Data at $\sqrt{s} = 8$ TeV from the ATLAS Detector. Physical Review Letters, 2015, 114, 081802.	7.8	98

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127	Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 163-183.	3.9	95
128	Search for a CP-odd Higgs boson decaying to Zh in pp collisions with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 163-183.	3.9	95
129	The ATLAS Inner Detector commissioning and calibration. European Physical Journal C, 2010, 70, 787-821.	3.9	95
130	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
131	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
132	Search for the Standard Model Higgs boson in the decay channel $H \rightarrow Z\gamma$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 392-413.	4.1	93
133	Control and rapidity dependence of inclusive jet production in pp collisions with 4.8 fb ⁻¹ of pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 392-413.	4.1	93
134	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	3.9	93
135	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
136	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. Physical Review D, 2015, 92, 112004.	4.7	91
137	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. Physical Review D, 2015, 92, 112004.	7.8	90
138	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
139	Search for the $b\bar{b}\bar{b}$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	89
140	Search for the $b\bar{b}\bar{b}$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	89
141	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
142	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
143	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.	4.7	88
144	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton collision data. European Physical Journal C, 2017, 77, 195.	3.9	87

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145	Measurement of multi-particle azimuthal correlations in pp, p \bar{A} + \bar{A} Pb and low-multiplicity Pb \bar{A} + \bar{A} Pb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	3.9	86
146	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
147	Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $s=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	82
148	Observation of an Excited B_c^\pm State with the ATLAS Detector. Physical Review Letters, 2014, 113, 212004.	7.8	81
149	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
150	Search for Dilepton Resonances in pp Collisions at $\sqrt{s}=7$ TeV with the ATLAS Detector. Physical Review Letters, 2011, 107, 272002.	7.8	81
151	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
152	Measurement of the prompt J/ψ 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
153	Search for χ_{c0} and χ_{c1} resonances in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physical Review Letters, 2011, 107, 272002.	7.8	80
154	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
155	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.	3.9	79
156	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
157	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
158	Detecting and studying high-energy collider neutrinos with FASER at the LHC. European Physical Journal C, 2020, 80, 1.	3.9	79
159	Measurement of χ_{c0} production in pp collisions at ATLAS. Physical Review D, 2013, 87, ..	4.7	78
160	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
161	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.	7.8	81
162	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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163	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
164	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. http://www.w3.org/1998/Math/MathML	3.9	77
165	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.	4.7	76
166	Angular analysis of $B_0 \rightarrow K^* \ell^+ \ell^-$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	76
167	Search for Direct Top Squark Pair Production in Final States with One Isolated Lepton, Jets, and Missing Transverse Momentum in pp Collisions Using 4.7 fb ⁻¹ of ATLAS Data. Physical Review Letters, 2012, 109, 211803.	4.7	75
168	Search for new physics in the dijet mass distribution using 1 fb ⁻¹ of pp collision data at $\sqrt{s} = 7$ TeV collected by the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 37-54.	4.7	75
169	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	3.9	75
170	Measurement of quarkonium production in lead and proton-proton collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.	3.9	75
171	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
172	Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector. Physical Review Letters, 2017, 119, 191803.	7.8	74
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239	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. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	59
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252	Search for long-lived stopped R-hadrons decaying out of time with the ATLAS detector. <i>Physical Review D</i> , 2013, 88, 014011.	4.7	57

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266	Search for supersymmetry in pp collisions at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	4.7	54
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274	Measurement of the cross-section for W boson production in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	53
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286	Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 154.	3.9	52
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298	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295.	3.9	50
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303	Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 997.	4.1	49
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316	Search for New Phenomena in Events with Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV and W boson in association with b-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 418-437.	7.8	47
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318	Measurement of total and differential $W + W^{\pm}$ production cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous measurements of long-range azimuthal anisotropies and associated Fourier coefficients for $W + W^{\pm}$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV and W boson in association with jets in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 361.	4.7	47
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322	Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	47
323	Measurement of total and differential $W + W^{\pm}$ production cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous measurements of long-range azimuthal anisotropies and associated Fourier coefficients for $W + W^{\pm}$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV and W boson in association with jets in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 361.	4.7	47
324	Measurement of the top quark mass in the $t\bar{t} \rightarrow t\bar{t} \hat{A} \hat{A}'$. European Physical Journal C, 2019, 79, 1.	3.9	47

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738	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

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743	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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762	The DNN Likelihood: enhancing likelihood distribution with Deep Learning. European Physical Journal C, 2020, 80, 1.	3.9	12
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764	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	3.9	12
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812	Reconstruction and identification of boosted $di\bar{l}_j$ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	8
813	Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2022, 82, 1.	3.9	8
814	Measurements of the top quark branching ratios into channels with leptons and quarks with the ATLAS detector. <i>Physical Review D</i> , 2015, 92, .	4.7	7
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818	Search for dijet resonances in events with an isolated charged lepton using $\sqrt{s} = 13$ TeV proton-proton collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	7
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822	Search for contact interactions in dimuon events from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	6
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826	Measurement of ZZ production in the $\gamma\gamma$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	6
827	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. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	6
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830	Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at $\sqrt{s} = 8$ and 13 TeV. European Physical Journal C, 2020, 80, 1.	3.9	5
831	A search for the decays of stopped long-lived particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
832	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
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834	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
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849	Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	3
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851	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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861	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
862	Measurement of the energy asymmetry in $t\bar{t}$ production at $\sqrt{s} = 13$ TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, .	3.9	2
863	Tagging the Higgs boson decay to bottom quarks with colour-sensitive observables and the Lund jet plane. European Physical Journal C, 2022, 82, .	3.9	2
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866	Measurement of the $t\bar{t}$ production cross section in the $l, +jets$ final state in pp collisions at $s=8\text{ TeV}$ using the ATLAS detector. Physical Review D, 2017, 95, .	4.7	1
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