

Fernando Barreiro

List of Publications by Year in descending order

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Version: 2024-02-01

1,318
papers

71,714
citations

944

115
h-index

2323

199
g-index

1341
all docs

1341
docs citations

1341
times ranked

14783
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.	1.5	6,386
2	The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.	0.5	1,752
3	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	1.4	1,187
4	Combined Measurement of the Higgs Boson Mass in Collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	2.9	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.	2.9	581
6	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	1.4	489
7	Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	473
8	Combined measurement and QCD analysis of the inclusive $e^{\pm} p$ scattering cross sections at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	458
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.	1.4	453
10	Observation of Associated Near-Side and Away-Side Long-Range Correlations in Collisions with the ATLAS Detector. Physical Review Letters, 2013, 110, 182302.	2.9	441
11	Measurement of the azimuthal anisotropy for charged particle production in lead-lead collisions with the ATLAS detector. Physical Review C, 2012, 86, .	1.1	365
12	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.	1.4	362
13	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, 719, 48-66.	1.5	358
14	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	1.4	325
15	Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC. New Journal of Physics, 2011, 13, 053033.	1.2	314
16	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.	1.5	307
17	Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 581.	1.4	298
18	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.	1.5	295

#	ARTICLE	IF	CITATIONS
19	Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653.	1.4	279
20	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.	1.4	274
21	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.	1.4	268
22	Construction and beam test of the ZEUS forward and rear calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 309, 101-142.	0.7	259
23	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	1.4	259
24	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. European Physical Journal C, 2012, 72, 1.	1.4	248
25	Combined measurements of Higgs boson production and decay using up to 80 fb ⁻¹ of proton-proton collision data at $\sqrt{s} = 7, 8$ TeV in the ATLAS experiment. Physical Review D, 2016, 93, 17.	1.4	241
26	Observation of events with a large rapidity gap in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 315, 481-493.	1.5	239
27	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.	1.4	238
28	Search for high-mass dilepton resonances in pp collisions at $\sqrt{s} = 7, 8$ TeV with the ATLAS detector. Physical Review D, 2014, 90, .	1.6	237
29			

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37	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.	1.4	213
38	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.	1.4	209
39	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.	1.4	204
40	Evidence for gluon bremsstrahlung in e^+e^- annihilations at high energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 86, 418-425.	1.5	198
41	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.	1.4	197
42	Search for high-mass dilepton resonances using 139 fb ⁻¹ of pp collision data collected at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 357, 1305-1310.	1.5	196
43	Search for lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 220-241.	1.5	195
44	A measurement of $\sigma_{tot}(\sqrt{s})$ at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 293, 465-477.	1.5	192
45	Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s} = 13$ TeV with the ATLAS Detector at the LHC. Physical Review Letters, 2016, 117, 182002.	2.9	185
46	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 903.	1.4	181
47	Measurement of total and partial photon proton cross sections at 180 GeV center of mass energy. Zeitschrift für Physik C-Particles and Fields, 1994, 63, 391-408.	1.5	180
48	Luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.	1.4	179
49	Measurement of the Higgs boson mass from the $H \rightarrow \gamma\gamma$ decay channel using 36.1 fb ⁻¹ of pp collision data with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 119-124.	1.6	176
50	Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	1.6	175
51	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. European Physical Journal C, 2015, 75, 476.	1.4	174
52	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1.	1.4	172
53	Search for the Standard Model Higgs Boson in the Diphoton Decay Channel with 36.1 fb ⁻¹ of pp Collision Data at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2016, 117, 182002.	2.9	171
54	Measurement with the ATLAS detector of multi-particle azimuthal correlations in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 357, 1305-1310.	1.5	169

#	ARTICLE	IF	CITATIONS
55	Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 173-191.	1.5	169
56	Search for Scalar Diphoton Resonances in the Mass Range 65–600 GeV with the ATLAS Detector in Collision Data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	2.9	168
57	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. Journal of High Energy Physics, 2017, 2017, 1.	1.6	168
58	Exclusive electroproduction of J/ψ mesons at HERA. Nuclear Physics B, 2004, 695, 3-37.	0.9	164
59	Measurement of the differential cross-sections of inclusive, prompt and non-prompt J/ψ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Nuclear Physics B, 2014, 889, 486-548.	0.9	163
60	Evidence for a narrow baryonic state decaying to K ⁰ S _p and K ⁰ S _l , in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 591, 7-22.	1.5	162
61	Measurements of the inclusive cross sections in the $Z \rightarrow \tau^+ \tau^-$ channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, .	1.6	158
62	Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, .	1.6	158
63	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2017, 96, .	1.6	157
64	Measurement of the proton structure function F ₂ at very low Q ² at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 487, 53-73.	1.5	155
65	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.	0.9	155
66	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.	1.4	154
67	Measurement of hard double-parton interactions in W + 2-jet events at $\sqrt{s} = 7$ TeV with the ATLAS detector. New Journal of Physics, 2013, 15, 033038.	1.2	147
68	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.	1.4	146
69	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	145
70	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	1.4	145
71	Precision measurement and interpretation of inclusive $W^+ W^+$, $W^- W^-$. European Physical Journal C, 2017, 77, 367.	1.4	145
72	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2018, 121, 211801.	2.9	145

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73	Measurement of deeply virtual Compton scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 573, 46-62.	1.5	143
74	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.	1.5	138
75	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 8TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109.	1.4	143
76	ZEUS next-to-leading-order QCD analysis of data on deep inelastic scattering. Physical Review D, 2003, 67, .	1.6	139
77	Global jet properties at 14.44 GeV center of mass energy in e^+e^- annihilation. Zeitschrift für Physik C-Particles and Fields, 1990, 47, 187-198.	1.5	138
78	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. European Physical Journal C, 2015, 75, 510.	1.4	138
79	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 15-20.	1.5	138
80	Measurement of the F_2 structure function in deep inelastic e^+p scattering using 1994 data from the ZEUS detector at HERA. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 399-424.	1.5	137
81	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.	1.6	137
82	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physical Review Letters, 2011, 106, 131802.	1.6	137
83	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.	2.9	136
84	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	136
85	Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physical Review D, 2012, 86, .	1.6	135
86	Measurements of the Nuclear Modification Factor for Jets in $Pb-Pb$ Collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS Detector. Physical Review Letters, 2015, 114, 072302.	2.9	135
87	Combination and QCD analysis of charm production cross section measurements in deep-inelastic ep scattering at HERA. European Physical Journal C, 2013, 73, 1.	1.4	134
88	Measurement of event-plane correlations in pp lead-lead collisions with the ATLAS detector. Physical Review C, 2014, 90, .	1.5	134
89	Charged-particle multiplicities in pp interactions at $\sqrt{s} = 900$ GeV with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 21-42.	1.5	134
90	Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801.	2.9	133

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91	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 199.	1.4	132
92	Comparison of ZEUS data with standard model predictions for $e^+p \rightarrow e^+X$ scattering at high Q^2 . Zeitschrift für Physik C-Particles and Fields, 1997, 74, 207-220.	1.5	131
93	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.	1.6	131
94	Search for Invisible Decays of a Higgs Boson Produced in Association with a Z Boson in ATLAS. Physical Review Letters, 2014, 112, .	2.9	130
95	ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	130
96	Measurement of the proton structure function F_2 and at low and very low x at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 407, 432-448.	1.5	129
97	Search for Dark Matter in Events with a Hadronically Decaying Z Boson and Missing Transverse Momentum in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. Physical Review Letters, 2014, 112, 041802.	2.9	129
98	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s}=8$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.	1.6	128
99	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 367, 120-126.	1.5	126
100	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+\tau^-$ in $t\bar{t}$ events using pp collision data at $\sqrt{s}=7$; TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	126
101	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 367, 120-126.	1.6	126
102	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995.	1.4	125
103	Electron and photon performance measurements with the ATLAS detector using the 2015-2017 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P12006-P12006.	0.5	124
104	Evidence for Electroweak Production of $W^{\pm}W^{\pm}$ Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. Physical Review D, 2014, 90, 012005.	2.9	123
105	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349.	1.4	123
106	Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.	1.4	121
107	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physical Review D, 2011, 83, .	1.6	121
108			

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109	Measurement of inclusive jet charged-particle fragmentation functions in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 318, 2465.	1.5	121
110	Search for a light charged Higgs boson in the decay channel $H^{\pm} \rightarrow c\bar{s}$ in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2013, 73, 2465.	1.4	119
111	Search for new resonances in W^{\pm} and Z^0 final states in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 428-447.	1.5	118
112	Measurement of the proton structure function F2 from the 1993 HERA data. Zeitschrift für Physik C-Particles and Fields, 1995, 65, 379-398.	1.5	118
113	Determination of the Strange-Quark Density of the Proton from ATLAS Measurements of the $W^{\pm}Z$ and $Z\nu\ell$ Cross Sections. Physical Review Letters, 2012, 109, 012001.	2.9	117
114	A search for new physics in dijet mass and angular distributions in $\sqrt{s} = 7$ TeV pp collisions measured with the ATLAS detector. New Journal of Physics, 2011, 13, 053044.	1.2	116
115	Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	116
116	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	116
117	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 538.	1.4	115
118	Search for new phenomena in dijet mass and angular distributions from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 302-322.	1.6	115
119	Search for new phenomena in dijet mass and angular distributions from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2018, 98, .	1.6	115
120	Measurement of inclusive jet and dijet cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV centre-of-mass energy with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	114
121	Search for new phenomena in dijet events using collision data collected at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2017, 96, .	1.6	114
122	Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 161801.	2.9	113
123	Measurement of the inclusive jet and dijet cross-section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.5	113
124	Search for new particles in two-jet final states in 7 TeV proton-proton collisions with the ATLAS detector at the LHC. Physical Review Letters, 2010, 105, 161801.		

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127	Measurement of long-range pseudorapidity correlations and azimuthal harmonics in NN=5.02 TeV proton-lead collisions with the ATLAS detector. Physical Review C, 2014, 90, .	1.1	111
128	First observation of hadron production in e+e- collisions at 13 and 17 GeV CMS energy with the pluto detector at petra. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 81, 410-415. s nearly mass degenerate with the lightest neutralino based on a	1.5	110
129	disappearing-track signature in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. European Physical Journal C, 2012, 72, 2043.	1.6	110
130	Observation and measurement of Higgs boson decays to WW in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .	1.6	110
131	Measurement of $\sigma_{\text{had}}^{\text{had}}$ 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.	1.4	109
132	Combined search for the Standard Model Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 363-382.	1.6	109
133	Search for heavy resonances decaying into WW in the $e^+e^- \rightarrow \mu^+\mu^- \gamma \gamma$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.	1.5	109
134	Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 5.	1.4	109
135	Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	108
136	Search for squarks and gluinos in final states with jets and missing transverse momentum using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 294-312.	1.4	108
137	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, 697, 294-312.	1.5	107
138	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.	1.4	105
139	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. European Physical Journal C, 2012, 72, 2056.	2.9	105
140	Searches for Higgs boson pair production in the $pp \rightarrow H H$ final state in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 363-382.	1.5	104
141	Measurement of the diffractive structure function in deep inelastic scattering at HERA. Zeitschrift für Physik C-Particles and Fields, 1995, 68, 569-584.	1.6	102
142	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.	1.4	101
143	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.	1.6	101
144	Searches for Higgs boson pair production in the $pp \rightarrow H H$ final state in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 363-382.		

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145	Search for heavy ZZ resonances in the $ee \rightarrow ee \gamma \gamma$ final states using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	1.4	101
146	Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	100
147	Search for high-mass diphoton resonances in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .	1.6	99
148	Search for Higgs Boson Pair Production in the $bb \rightarrow bb$ Final State Using pp Collision Data at $\sqrt{s} = 8$ TeV from the ATLAS Detector. Physical Review Letters, 2015, 114, 081802.	2.9	98
149	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, 1-53-183.	2.9	97
150	Search for a CP-odd Higgs boson decaying to Zh in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 1-53-183.	2.9	97
151	Collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review Letters, 2020, 125, 051801.	1.5	96
152	Multiplicity distributions in e^+e^- annihilations at petra energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1980, 95, 313-317.	1.5	96
153	The ATLAS Inner Detector commissioning and calibration. European Physical Journal C, 2010, 70, 787-821.	1.4	95
154	Constraints on the off-shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector. European Physical Journal C, 2015, 75, 335.	1.4	95
155	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.	1.4	95
156	Measurement of elastic γ photoproduction at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 437, 432-444.	1.5	94
157	Measurement of $D^* \Lambda$ production in deep inelastic scattering at DESY HERA. Physical Review D, 2004, 69, .	1.6	94
158	Search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ$ 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.	1.5	93
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324	Search for WZ resonances in the fully leptonic channel using pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 737, 223-243.	1.4	56

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336	Search for pair production of Higgs bosons in the pp final state using proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2019, 1, 179.	1.6	55
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404	Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	47
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721	Search for Pair Production of a New Q Quark that Decays into a Z Boson and a Bottom Quark with the ATLAS Detector. <i>Physical Review Letters</i> , 2012, 109, 071801.	2.9	26
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723	Measurement of the pair production cross section in 8 TeV proton-proton collisions using the helicity amplitudes for the decay $Z \rightarrow \mu\mu$. <i>Physical Review D</i> , 2015, 91, .	1.6	26
724	Measurement of the top pair production cross section in 8 TeV proton-proton collisions using kinematic information in the $Z \rightarrow \mu\mu$ final state with ATLAS. <i>Physical Review D</i> , 2015, 91, .	1.6	26
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726	Search for dark matter in association with a Higgs boson decaying to b -quarks in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 765, 11-31.	1.4	26
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791	Measurement of the inclusive jet cross-sections in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
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800	Observation of isolated high-ET photons in deep inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 86-100.	1.5	22
801	Search for pentaquarks decaying to $\Lambda^0 \pi^0$ in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 610, 212-224.	1.5	22
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803	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.	1.4	22
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817	Search for heavy neutral Higgs bosons produced in association with top quarks and decaying into b-quarks and decaying into b-quarks in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 815, 135-142.	1.6	22
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831	ATLAS measurements of the properties of jets for boosted particle searches. <i>Physical Review D</i> , 2012, 86, 074016.	1.6	21
832	Measurement of the production cross section and limits on anomalous triple gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2012, 86, 074016.	1.5	21
833	Search for high-mass resonances decaying to $W\tau$ in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 719, 242-260.	1.5	21
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835	Search for high-mass resonances decaying to $W\tau$ in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 719, 242-260.	1.5	21
836	Measurement of the production cross-section of $\tilde{t}(2S) \rightarrow J/\psi(\tilde{t}^*\tilde{t} + \tilde{t}\tilde{t}^*)\tilde{t} + \tilde{t}\tilde{t}^*$ in pp collisions at $\sqrt{s} = 7$ TeV at ATLAS. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	21
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841	Search for high-mass resonances decaying to $W\tau$ in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 719, 242-260.	1.5	21
842	Search for supersymmetry in events with four or more leptons in $\sqrt{s} = 13$ TeV pp collisions with ATLAS. <i>Physical Review D</i> , 2018, 98, .	1.6	21
843	Search for Higgs boson decays into pairs of light (pseudo)scalar particles in the $W\tau$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 782, 750-767.	1.6	21
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852	Measurement of dijet cross sections for events with a leading neutron in photoproduction at HERA. Nuclear Physics B, 2001, 596, 3-29.	0.9	20
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856	Search for a heavy neutral particle decaying to a photon and a Z boson in pp collisions at 13 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 360, 282-290.	2.9	20
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860	Search for heavy resonances decaying to a Z boson and a photon in pp collisions at 13 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 11-30.	1.6	20
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902	Measurement of high- Q^2 neutral current deep inelastic scattering cross sections with a longitudinally polarized positron beam at HERA. Physical Review D, 2013, 87, .	1.6	18
903	Measurement of the transverse polarization of events using the ATLAS detector	1.5	18
904	Measurement of the transverse polarization of events using the ATLAS detector	1.6	18
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907	Search for resonant WZ production in the fully leptonic final state in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 787, 68-88.	1.6	18
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994	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1.	1.4	15
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999	A measurement of the $\hat{1}/4$ lifetime. Zeitschrift für Physik C-Particles and Fields, 1988, 39, 331-337.	1.5	14
1000	High-ET dijet photoproduction at HERA. Physical Review D, 2007, 76, .	1.6	14
1001	Search for a heavy neutral particle decaying into an electron and a muon using 1 fb $^{-1}$ of ATLAS data. European Physical Journal C, 2011, 71, 1.	1.4	14
1002	Transverse energy-energy correlations in next-to-leading order $n \pm s$ at the LHC. Physical Review D, 2012, 86, .	1.6	14
1003	Search for excited leptons in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physical Review D, 2012, 85, .	1.6	14
1004	Search for TeV-scale gravity signatures in final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 805, 299-304.	1.5	14
1005	Search for a heavy narrow resonance decaying to $e\hat{1}/4$, $e\hat{1}/4$, or $\hat{1}/4$, with the ATLAS detector in $pp \rightarrow p + p + \dots$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2013, 88, .	1.5	14
1006	Search for a heavy narrow resonance decaying to $e\hat{1}/4$, $e\hat{1}/4$, or $\hat{1}/4$, with the ATLAS detector in $pp \rightarrow p + p + \dots$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2013, 88, .	1.5	14
1007	Search for microscopic black holes in a like-sign dimuon final state using large track multiplicity with the ATLAS detector. Physical Review D, 2013, 88, .	1.6	14
1008	Search for new phenomena in events with three charged leptons at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2013, 87, .	1.6	14

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1010	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.	1.6	14
1011	Measurement of charged-particle distributions sensitive to the underlying event in $\sqrt{s}=13$ TeV proton-proton collisions with the ATLAS detector at the LHC. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
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1019	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 1.	1.6	14
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1023	Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2020, 102.	1.6	14
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1030	Measurement of azimuthal asymmetries in neutral current deep inelastic scattering at HERA. European Physical Journal C, 2007, 51, 289-299.	1.4	13
1031	Measurement of beauty production in deep inelastic scattering at HERA using decays into electrons. European Physical Journal C, 2011, 71, 1.	1.4	13
1032	Measurement of heavy-quark jet photoproduction at HERA. European Physical Journal C, 2011, 71, 1.	1.4	13
1033	Search for R-parity-violating supersymmetry in events with four or more leptons in $\sqrt{s}=7\text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	13
1034	Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at $\sqrt{s}=7\text{ TeV}$. European Physical Journal C, 2012, 72, 1.	1.4	13
1035	Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 7 TeV proton-proton collision data with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	1.4	13
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1047	Measurement of the production cross section for a Higgs boson in association with a vector boson in the $H \rightarrow \gamma \gamma$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 817, 55-76.	1.6	13
1048	Measurement of the production cross section for a Higgs boson in association with a vector boson in the $H \rightarrow \gamma \gamma$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 817, 55-76.	1.5	13
1049	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.	1.6	13
1050	Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 817, 55-76.	1.6	13
1051	Search for non-resonant Higgs boson pair production in the $b\bar{b}\gamma$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135145.	1.6	13
1052	Search for non-resonant Higgs boson pair production in the $b\bar{b}\gamma$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135145.	1.5	13
1053	Measurement of the CP-violating phase ϕ_{13} in $B_s \rightarrow \mu^+ \mu^-$ decays in ATLAS at 13 TeV. European Physical Journal C, 2021, 81, .	1.4	13
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1058	A search for excited fermions in electron-proton collisions at HERA. Zeitschrift für Physik C-Particles and Fields, 1995, 65, 627-647.	1.5	12
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1064	Measurement of J/ψ photoproduction at large momentum transfer at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	12
1065	Underlying event characteristics and their dependence on jet size of charged-particle jet events in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. Physical Review D, 2012, 86, .	1.6	12
1066	Search for Production of Resonant States in the Photon-Jet Mass Distribution Using pp Collisions at $\sqrt{s}=7\text{ TeV}$ Collected by the ATLAS Detector. Physical Review Letters, 2012, 108, 211802.	2.9	12
1067	Search for resonant WZ production in the $WZ \rightarrow \ell^+ \ell^- \nu \ell^2$ channel in $(s)=7\text{ TeV}$ pp collisions with the ATLAS detector. Physical Review D, 2012, 85, .	1.6	12
1068	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.	1.6	12
1069	Search for events with large missing transverse momentum, jets, and at least two tau leptons in 7 TeV proton-proton collision data with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 180-196.	1.5	12
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1071	Measurement of charged-particle event shape variables in inclusive $(s)=7\text{ TeV}$ proton-proton interactions with the ATLAS detector. Physical Review D, 2013, 88, .	1.6	12
1072	Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb $^{-1}$ of $\sqrt{s}=8\text{ TeV}$ proton-proton collision data with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	12
1073	Study of heavy-flavor quarks produced in association with top-quark pairs at $\sqrt{s}=7\text{ TeV}$ using the ATLAS detector. Physical Review D, 2014, 89, .	1.6	12
1074	Measurement of the branching ratio $\text{BR}(B \rightarrow \tau^+ \nu_\tau \mu^+ \mu^-)$ in $(s)=7\text{ TeV}$ proton-proton collisions with the ATLAS detector. Physical Review Letters, 2014, 113, 211802.	1.6	12

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1082	Search for $B^0 \rightarrow \mu^+ \mu^-$ R-parity-violating top squarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS experiment. <i>Physical Review D</i> , 2018, 97, .	1.6	12
1083	Measurement of the four-lepton invariant mass spectrum in 13 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	12
1084	Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2019, 122, 151801.	1.2	12
1085	Measurement of the production cross-section in the lepton+jets channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.5	12
1086	Observation of the associated production of a top quark and a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	12
1087	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	12
1088	Search for supersymmetry in events with four or more charged leptons in 139 fb ⁻¹ of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	12
1089	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. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	12
1090	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. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	12
1091	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	12
1092	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and 13 TeV. <i>European Physical Journal C</i> , 2022, 82, 1.	1.4	12
1093	Search for excited electrons using the ZEUS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 316, 207-218.	1.5	11
1094	NLO predictions for the growth of F_2 at small x and comparison with experimental data. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996, 72, 561-571.	1.5	11
1095	Observation of scaling violations in scaled momentum distributions at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 414, 428-443.	1.5	11
1096	Isolated tau leptons in events with large missing transverse momentum at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 583, 41-58.	1.5	11
1097	Measurement of W^+W^- and Z^0Z^0 production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	11
1098	Search for single top quark production with the ATLAS detector at $\sqrt{s} = 13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 317, 25-34.	1.5	11

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1100	Measurement of the correlation between the polar angles of leptons from top-quark decays in the helicity basis at $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS detector. Physical Review D, 2016, 93, .	1.6	11
1101	Measurement of the correlation between the polar angles of leptons from top-quark decays in the helicity basis at $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS detector. Physical Review D, 2016, 93, .	1.6	11
1102	Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period. Journal of Instrumentation, 2016, 11, P05013-P05013.	0.5	11
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1105	Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
1106	Search for heavy long-lived multicharged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Physical Review D, 2019, 99, .	1.6	11
1107	Search for heavy long-lived multicharged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Physical Review D, 2019, 99, .	1.1	11
1108	Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	11
1109	Measurement of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.5	11
1110	Two-particle azimuthal correlations in photonuclear ultraperipheral collisions at 5.02 TeV with ATLAS. Physical Review C, 2021, 104, .	1.1	11
1111	Exclusive dimuon production in ultraperipheral collisions at 5.02 TeV with ATLAS. Physical Review C, 2021, 104, .	1.1	11
1112	Experimental test of electroweak effects at PETRA energies. Zeitschrift für Physik C-Particles and Fields, 1981, 7, 289-293.	1.5	10
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1114	Exclusive production of hadron pairs at large momentum transfer in photon-photon interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 137, 267-271.	1.5	10
1115	Measurement of diffractive production of D_s^* mesons in deep-inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 545, 244-260.	1.5	10
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1123	Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	10
1124	A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeV pp collisions. Journal of Instrumentation, 2016, 11, P11020-P11020.	0.5	10
1125	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.	1.6	10
1126	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.	1.4	10
1127	Measurement of the dependence of transverse energy production at large pseudorapidity on the hard-scattering kinematics of proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 756, 1-12.	1.5	10
1128	Measurement of W boson angular distributions in events with high transverse momentum jets at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 132-153.	1.5	10
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1130	Measurement of the inclusive and fiducial $t\bar{t}\hat{A}$ production cross-sections in the. European Physical Journal C, 2018, 78, 487.	1.4	10
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1134	Search for flavour-changing neutral currents in processes with one top quark and a photon using fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135082.	1.5	10

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1136	Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties. Journal of Instrumentation, 2017, 12, P05002-P05002.	0.5	10
1137	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	10
1138	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	10
1139	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.	1.6	10
1140	Search for resonant pair production of Higgs bosons in the $b\bar{b}$ final state using 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	10
1141	Search for single production of a vectorlike quark decaying into a Higgs boson and top quark with fully hadronic final states using the ATLAS detector. Physical Review D, 2022, 105, .	1.6	10
1142	Three-jet production in diffractive deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 516, 273-292.	1.5	9
1143	Inclusive K_S^0 production in e^+e^- collisions at HERA. Physical Review Letters, 2008, 101, 112003.	2.9	9
1144	Measurement of isolated photons accompanied by jets in deep inelastic ep scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 715, 88-97.	1.5	9
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1149	Measurement of the ZZ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ZZ $\hat{\nu}\bar{\nu}$, $Z\hat{\nu}\bar{\nu}$, $Z\hat{\nu}\bar{\nu}$, $Z\hat{\nu}\bar{\nu}$, $Z\hat{\nu}\bar{\nu}$ and ZZ $\hat{\nu}\bar{\nu}$, $\hat{\nu}\bar{\nu}$, $\hat{\nu}\bar{\nu}$ decay channels with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	9
1150	Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	9
1151	Search for top squarks decaying to tau sleptons in $b\bar{b}$ collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Physical Review D, 2018, 98, .	1.6	9
1152	Search for top squarks decaying to tau sleptons in $b\bar{b}$ collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Physical Review D, 2018, 98, .	1.6	9

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1153	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 347-370.	1.6	9
1154	Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 347-370.	1.5	9
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1156	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	9
1157	Search for dark matter produced in association with a single top quark in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	9
1158	Evidence for electroweak production of two jets in association with a Z pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137077.	1.5	9
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1162	Observation of $K_S^0 K_L^0$ resonances in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 578, 33-44.	1.5	8
1163	Construction, assembly and tests of the ATLAS electromagnetic end-cap calorimeters. Journal of Instrumentation, 2008, 3, P06002-P06002.	0.5	8
1164	Study of the response of ATLAS electromagnetic liquid argon calorimeters to muons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 419-431.	0.7	8
1165	Events with an isolated lepton and missing transverse momentum and measurement of W production at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	8
1166	Prospects of measuring the CKM matrix element $ V_{cb} $ with exactly one associated jet in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137077.	1.5	8
1167	Measurement of the mass difference between top and anti-top quarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137077.	1.5	8
1168	Measurement of $D^* \Lambda^\pm$ production in deep inelastic scattering at HERA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	8
1169	Measurement of $D^* \Lambda^\pm$ production in deep inelastic ep scattering with the ZEUS detector at HERA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	8
1170	Measurement of the mass difference between top and anti-top quarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137077.	1.5	8

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1172	Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	8
1173	Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	8
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1176	Measurement of dijet azimuthal decorrelations in $\sqrt{s} = 13$ TeV proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector and determination of the strong coupling. Physical Review D, 2018, 98, 014011.	1.6	8
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1178	Measurement of W^+W^- boson and Z-boson production cross-sections in pp collisions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	8
1179	Measurements of $W^+W^- + 1$ jet production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
1180	Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. Nature Physics, 2021, 17, 819-825.	6.5	8
1181	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
1182	Evidence for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136412.	1.5	8
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1184	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. European Physical Journal C, 2022, 82, 1.	1.4	8
1185	Search for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136412.	1.5	8
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1187	CRISIS detector: Characteristics and performance. Review of Scientific Instruments, 1982, 53, 393-404.	0.6	7
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1190	Observation of the strange sea in the proton via inclusive \bar{t} -meson production in neutral current deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 553, 141-158.	1.5	7
1191	Measurement of meson production in scattering at low. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 649, 111-121.	1.5	7
1192	Multi-lepton production at high transverse momentum at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 13-23.	1.5	7
1193	Subjet distributions in deep inelastic scattering at HERA. European Physical Journal C, 2009, 63, 527-548.	1.4	7
1194	Measurement of dijet photoproduction for events with a leading neutron at HERA. Nuclear Physics B, 2010, 827, 1-33.	0.9	7
1195	Exclusive electroproduction of two pions at HERA. European Physical Journal C, 2012, 72, 1.	1.4	7
1196	Measurement of inelastic J/ψ and Υ photoproduction at HERA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	7
1197	Measurements of the top quark branching ratios into channels with leptons and quarks with the ATLAS detector. Physical Review D, 2015, 92, .	1.6	7
1198	Femtoscopy with identified charged pions in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ATLAS. Physical Review C, 2017, 96, .		
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1205	Search for Z bosons in three- or four-lepton events in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 824, 136832.	1.5	7
1206	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	1.4	7

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1210	A study of two-photon production of two-body final states with invariant mass greater than 2.0 GeV. Nuclear Physics B, 1982, 202, 189-200.	0.9	6
1211	Search for lepton-flavor violation in e^+p collisions at DESY HERA. Physical Review D, 2002, 65, .	1.6	6
1212	Multijet cross sections in charged current e^+p scattering at HERA. Physical Review D, 2008, 78, .	1.6	6
1213	Search for contact interactions in dimuon events from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2011, 84, .	1.6	6
1214	Measurement of the energy dependence of the total photon-proton cross section at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 184-193.	1.5	6
1215	Search for supersymmetry in events with photons, bottom quarks, and missing transverse momentum in proton-proton collisions at a centre-of-mass energy of 7 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 197-214.	1.5	6
1216	Search for supersymmetry in events with photons, bottom quarks, and missing transverse momentum in proton-proton collisions at a centre-of-mass energy of 7 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 261-279.	1.5	6
1217	Properties of η and η' mesons. Physical Review D, 1998, 58, 014004.	1.5	6
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1223	Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into W^+W^- or ZZ in Fully Hadronic Final States from pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136190.	1.5	6
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1226	Performance of the ATLAS Level-1 topological trigger in Run 2. <i>European Physical Journal C</i> , 2022, 82, 1.	1.4	6
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1228	Inclusive $\pi^+\pi^+$ production in e^+e^- interactions at 147 GeV/c. <i>Physical Review D</i> , 1978, 18, 3099-3114.	1.6	5
1229	Study of Inclusive Vector-Meson Production in e^+e^- Interactions at 15 GeV/c. <i>Physical Review Letters</i> , 1978, 40, 595-598.	2.9	5
1230	Efficiency studies of multi-jet analysis methods at LEP energies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1985, 240, 237-261.	0.7	5
1231	Jets in $e^+e^- \rightarrow e^+e^- \gamma \gamma$ Annihilation and QCD. <i>Fortschritte Der Physik</i> , 1986, 34, 503-604.	1.5	5
1232	Evidence for direct photons from quarks in electron-positron annihilation. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1988, 41, 385-393.	1.5	5
1233	Search for selectron and squark production in e^+p collisions at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 434, 214-230.	1.5	5
1234	Measurement of D^+ and $\hat{b}^+ c^+$ production in deep inelastic scattering at HERA. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.6	5
1235	Search for the standard model Higgs boson produced in association with a vector boson and decaying into a tau pair in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2016, 93, .	1.6	5
1236	A search for the decays of stopped long-lived particles at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	5
1237	The ATLAS Fast Tracker system. <i>Journal of Instrumentation</i> , 2021, 16, P07006.	0.5	5
1238	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	5
1239	Emulating the impact of additional proton-proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. <i>Computing and Software for Big Science</i> , 2022, 6, 1.	1.3	5
1240	The ATLAS inner detector trigger performance in pp collisions at $\sqrt{s}=13$ TeV during LHC Run 2. <i>European Physical Journal C</i> , 2022, 82, 1.	1.4	5
1241	Constraints on Higgs boson production with large transverse momentum using $H \rightarrow \tau^+\tau^-$ decays in the ATLAS detector. <i>Physical Review D</i> , 2022, 105, .	1.6	5
1242	Average charged-particle multiplicities in e^+e^- inclusive reactions at 147 GeV/c. <i>Physical Review D</i> , 1979, 19, 743-763.	1.6	4

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1249	Measurements of the charge asymmetry in top-quark pair production in the dilepton final state at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2016, 94, .	1.6	4
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1255	Search for top squarks in events with a Higgs or Z boson using 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	4
1256	Measurement of K_S^0 and Λ^0 production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	4
1257	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow u \bar{u} (\rightarrow \pi^{\pm} u \bar{u})$ events in Run 2 data. European Physical Journal C, 2022, 82, 1.	1.4	4
1258	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.	1.6	4
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1262	An electromagnetic calorimeter with scintillator strips and wavelength shifter readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 257, 145-154.	0.7	3
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1267	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.	1.4	3
1268	Measurement of the relative production cross section with the ATLAS detector at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2021, 81, 1.	1.6	3
1269	Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	3
1270	Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents. Journal of Instrumentation, 2021, 16, P08025.	0.5	3
1271	Measurement of the inclusive jet cross-section in proton-proton collisions at $\sqrt{s} = 7$ TeV using 4.5 fb ⁻¹ of data with the ATLAS detector. , 2015, 2015, 1.		3
1272	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. , 2015, 75, 1.		3
1273	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. , 2015, 75, 1.		3
1274	Readiness of the ATLAS liquid argon calorimeter for LHC collisions. , 2012, , 1-31.		3
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