

# Tatsuo Kawamoto

## List of Publications by Year in descending order

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Version: 2024-02-01

568  
papers

27,866  
citations

7096

78  
h-index

12946

131  
g-index

596  
all docs

596  
docs citations

596  
times ranked

10005  
citing authors

#	ARTICLE	IF	CITATIONS
1	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	3.9	1,187
2	Search for neutral MSSM Higgs bosons at LEP. European Physical Journal C, 2006, 47, 547.	3.9	592
3	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	3.9	489
4	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 292.	3.9	453
5	Improved luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 2518.	3.9	362
6	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	3.9	325
7	Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 581.	3.9	298
8	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
9	Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s} = 7$ and 8 TeV in the ATLAS experiment. European Physical Journal C, 2016, 76, 6.	3.9	274
10	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
11	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	3.9	259
12	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
13	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 8$ –8 TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 299.	3.9	238
14			

#	ARTICLE	IF	CITATIONS
19	Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton–proton collision data. European Physical Journal C, 2014, 74, 2941.	3.9	204
20	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. European Physical Journal C, 2016, 76, 45.	3.9	197
21	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton–proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 903.	3.9	181
22	Luminosity determination in $pp$ collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.	3.9	179
23	Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	175
24	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. European Physical Journal C, 2015, 75, 476.	3.9	174
25	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1.	3.9	172
26	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.	4.7	168
27	Measurement of the transverse momentum and $\phi_{\ell\ell}$ distributions of Drell–Yan lepton pairs in proton–proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 291.	3.9	154
28	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
29	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	145
30	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	3.9	145
31	Precision measurement and interpretation of inclusive $W^+W^-$ , $W^+W^-$ . European Physical Journal C, 2017, 77, 367.	3.9	145
32	Measurement of the $t\bar{t}\tilde{A}^-$ production cross-section using $\sqrt{s} = 7$ TeV events with $b$ -tagged jets in $pp$ collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109.	3.9	143
33	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
34	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
35	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
36	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



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55	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
56	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
57	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
58	Search for heavy ZZ resonances in the $\ell\ell^+\ell\ell^-$ , $\ell\ell^+\ell\ell^-$ , $\ell\ell^+\ell\ell^-$ and $\ell\ell^+\ell\ell^-$ final states using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	3.9	101
59	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
60	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
61	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
62	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	3.9	93
63	Measurements of the $W^+W^-$ production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82.	3.9	92
64	Search for Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state from pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412.	3.9	90
65	Search for the $b\bar{b}H$ 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
66	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
67	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
68	A study of charged particle multiplicities in hadronic decays of the Z <sup>0</sup> . Zeitschrift für Physik C-Particles and Fields, 1992, 53, 539-554.	1.5	87
69	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	3.9	87
70	Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	3.9	86
71	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
72	Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	82

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73	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
74	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
75	Measurement of the prompt $J/\psi$ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76.	3.9	81
76	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
77	Search for production of $WW/WZ$ resonances decaying to a lepton, neutrino and jets in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 209.	3.9	79
78	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
79	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
80	QCD studies with $e^+e^-$ annihilation data at 130 and 136 GeV. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 191-206.	1.5	78
81	Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-39.	4.7	78
82	Light-quark and gluon jet discrimination in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3023.	3.9	77
83	Search for dark matter in events with heavy quarks and missing transverse momentum in pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 92.	3.9	77
84	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	77
85	Angular analysis of $B^0 \rightarrow \pi^+ \pi^-$ decays in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	76
86	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	3.9	75
87	Measurement of quarkonium production in proton-lead and proton-proton collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.	3.9	75
88	A study of differences between quark and gluon jets using vertex tagging of quark jets. Zeitschrift für Physik C-Particles and Fields, 1993, 58, 387-403.	1.5	74
89	Search for resonant diboson production in the $\ell\ell q\bar{q}$ final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69.	3.9	74
90	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	73

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91	Measurement of the production cross section of jets in association with a Z boson in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	73
92	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. European Physical Journal C, 2016, 76, 666.	3.9	73
93	Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 392.	3.9	73
94	Search for supersymmetry at $\sqrt{s}=13$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. European Physical Journal C, 2016, 76, 259.	3.9	72
95	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s}=8$ TeV proton-proton collisions using the ATLAS experiment. Journal of High Energy Physics, 2013, 2013, 1.	4.7	71
96	Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $s=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	71
97	Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at $s=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	71
98	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. European Physical Journal C, 2017, 77, 332.	3.9	71
99	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 303.	3.9	70
100	Search for resonances in diphoton events at $s=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	70
101	Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau^{\pm} \bar{\nu}_{\tau}$ in fully hadronic final states using pp collision data at $s=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	69
102	Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3157.	3.9	68
103	Search for new resonances in mass distributions of jet pairs using 139 fb <sup>-1</sup> of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	68
104	Measurement of charged-particle spectra in Pb+Pb collisions at $s_{NN}=2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	4.7	67
105	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	3.9	67
106	Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	67
107	Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $s=8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	66
108	A search for $t\bar{t}$ resonances using lepton-plus-jets events in proton-proton collisions at $s=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	66



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109	A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 250.	3.9	66
110	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	65
111	Measurement of the $W \rightarrow \ell \bar{\nu}_\ell$ and $Z \rightarrow \ell \ell$ production cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1.	4.7	64
112	Measurement of isolated-photon pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	64
113	Observation and measurements of the production of prompt and non-prompt $J/\psi$ mesons in association with a $Z$ boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 229.	3.9	64
114	Evidence for the $H \rightarrow b \bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	64
115	Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	64
116	Measurement of the differential cross-sections of prompt and non-prompt production of $J/\psi$ and $\psi(2S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283.	3.9	63
117	A determination of $\sigma(M_{Z^0})$ at LEP using resummed QCD calculations. Zeitschrift für Physik C-Particles and Fields, 1993, 59, 1-19.	1.5	62
118	Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 120.	3.9	62
119	Identification of boosted, hadronically decaying $W$ bosons and comparisons with ATLAS data taken at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 154.	3.9	62
120	A global determination of $\alpha_s(M_{Z^0})$ at LEP. Zeitschrift für Physik C-Particles and Fields, 1992, 55, 1-24.	1.5	61
121	Measurement of $ZZ$ production in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous $ZZZ$ and $ZZ\gamma$ couplings with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	61
122	Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	3.9	61
123	Charged-particle distributions at low transverse momentum in $\sqrt{s} = 13$ TeV pp interactions measured with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 502.	3.9	61
124	Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions in the ATLAS detector. European Physical Journal C, 2017, 77, 241.	3.9	61
125	Prompt and non-prompt $J/\psi$ and $\psi(2S)$ suppression at high transverse momentum in $\sqrt{s} = 5.02$ TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	3.9	61
126	Search for doubly charged scalar bosons decaying into same-sign $W$ boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58.	3.9	61



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127	Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. European Physical Journal C, 2011, 71, 1.	3.9	60
128	Summary of the searches for squarks and gluinos using $\sqrt{s}=8$ TeV pp collisions with the ATLAS experiment at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	4.7	60
129	Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $\sqrt{s}=8$ TeV pp collisions using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	60
130	Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $\ell\ell/\ell\ell u/\ell\ell u + b\bar{b}$ final states with the ATLAS detector. European Physical Journal C, 2015, 75, 263.	3.9	60
131	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-proton collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 199.	3.9	60
132	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 18.	3.9	60
133	Measurement of $W^\pm Z$ production in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	3.9	59
134	Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	59
135	Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	59
136	Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	59
137	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ and 5.0. European Physical Journal C, 2018, 78, 142.	3.9	59
138	Search for charged Higgs bosons decaying via $H^\pm \rightarrow \ell^\pm \nu_\ell$ , in the $\ell^\pm$ ,+jets and $\ell^\pm$ ,+lepton final states with 36 fb $^{-1}$ of pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	4.7	59
139	Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s}=7$ TeV in 2010. European Physical Journal C, 2014, 74, 3034.	3.9	58
140	Measurements of $B^0 - \bar{B}^0$ mixing, $\frac{\Gamma(B^0 \rightarrow \ell^+ \ell^- \bar{b})}{\Gamma(B^0 \rightarrow \ell^+ \ell^- \text{hadrons})}$ and semileptonic branching ratios for $b$ -flavoured hadrons in hadronic Z decays. Zeitschrift für Physik C-Particles and Fields, 1993, 60, 199-216.	1.5	57
141	Measurement of the W boson polarization in top quark decays with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	57
142	Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	56
143	Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 318.	3.9	56
144	Fiducial, total and differential cross-section measurements of t-channel single top-quark production in pp collisions at 8 TeV using data collected by the ATLAS detector. European Physical Journal C, 2017, 77, 531.	3.9	56

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145	Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	56
146	Search for direct top squark pair production in events with a $Z$ boson, $b$ -jets and missing transverse momentum in $\sqrt{s}=8$ TeV $pp$ collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 2883.	3.9	55
147	Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 interpreted in the phenomenological MSSM. Journal of High Energy Physics, 2015, 2015, 1.	4.7	55
148	Search for pair production of Higgs bosons in the $b\bar{b}$ final state using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	55
149	Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	4.7	54
150	Search for high-mass resonances decaying to dilepton final states in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	54
151	Measurements of fiducial cross-sections for $t\bar{t}\hat{A}$ production with one or two additional $b$ -jets in $pp$ collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 11.	3.9	54
152	Particle distribution in 3-jet events produced by $e^+e^-$ annihilation. Zeitschrift für Physik C-Particles and Fields, 1983, 21, 37-52.	1.5	53
153	Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in $4.7\text{ fb}^{-1}$ of $\sqrt{s}=7$ TeV proton-proton collisions. Journal of High Energy Physics, 2012, 2012, 1.	4.7	53
154	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
155	Search for Higgs boson pair production in the $\gamma\gamma WW^*\hat{A}^0$ channel using $pp$ collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 1007.	3.9	53
156	Search for the neutral Higgs bosons of the minimal supersymmetric standard model in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	52
157	Performance of jet substructure techniques for large- $R$ jets in proton-proton collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	52
158	Search for lepton-flavour-violating $H\hat{A}^0\rightarrow\ell\bar{\ell}$ , decays of the Higgs boson with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	52
159	Measurement of the top quark mass in the $t\rightarrow\text{lepton+jets}$ and $t\rightarrow\text{dilepton}$ channels using $\sqrt{s}=7$ TeV ATLAS data. European Physical Journal C, 2015, 75, 330.	3.9	52
160	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
161	Measurement of the top quark mass with the template method in the $t\rightarrow\text{lepton+jets}$ channel using ATLAS data. European Physical Journal C, 2012, 72, 2046.	3.9	51
162	Search for minimal supersymmetric standard model Higgs Bosons $H\hat{A}^0$ and for a $Z^{\prime}$ boson in the $\text{au}\bar{\text{au}}\ell\bar{\ell}$ final state produced in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 585.	3.9	51

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163	Measurement of the charged-particle multiplicity inside jets from $\sqrt{s}=8$ TeV $\text{Pb-Pb}$ collisions with the ATLAS detector. European Physical Journal C, 2016, 76, 322.	3.9	51
164	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. European Physical Journal C, 2017, 77, 379.	3.9	51
165	Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{\text{NN}}}=5.02$ TeV Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 997.	3.9	51
166	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295.	3.9	50
167	Search for direct top squark pair production in final states with two leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898.	3.9	50
168	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb $^{-1}$ of pp collisions at. European Physical Journal C, 2018, 78, 401.	3.9	50
169	Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	50
170	Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	49
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182	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. European Physical Journal C, 2019, 79, 1.	3.9	46
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186	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 1.	3.9	45
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191	Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45
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197	Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 55.	3.9	43
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207	Higgs boson production cross-section measurements and their EFT interpretation in the $4\ell$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	41
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215	Measurements of b-jet tagging efficiency with the ATLAS detector using $\tilde{t}$ events at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	40
216	Search for heavy resonances decaying into a pair of $Z$ bosons in the $ee \rightarrow ee Z Z$ and $ee \rightarrow ee \gamma \gamma$ final states using 139 fb $^{-1}$ of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	40



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225	Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $\sqrt{s}=13\text{ TeV}$ $pp$ collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	38
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258	Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	33
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270	Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31

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272	Search for W W/W Z resonance production in $\hat{q}\hat{q}$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	31
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298	Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	28
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302	Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 625.	3.9	27
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444	Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2018, 78, 102.	3.9	13
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457	Search for supersymmetry in events with four or more charged leptons in 139 fb <sup>-1</sup> of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
458	Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	12
459	Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
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463	Measurement of $\hat{s}$ with radiative hadronic events. European Physical Journal C, 2008, 53, 21.	3.9	11
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474	Search for direct top squark pair production in final states with two tau leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 81.	3.9	10
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476	Measurement of the inclusive and fiducial $t\bar{t}t\bar{t}$ production cross-sections in the. European Physical Journal C, 2018, 78, 487.	3.9	10
477	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W\Delta^\pm$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
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479	Measurement of the $t\bar{t}t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
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481	Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
482			



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488	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.	4.7	9
489	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.	3.9	9
490	Measurement of the Z( $\tau^+\tau^-$ ) $\rightarrow \ell\ell$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	9
491	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.	3.9	9
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500	Measurement of W <sup>±</sup> -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.	3.9	8
501	Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
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511	Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	7
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521	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
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524	Multi-photon final states in. European Physical Journal C, 1998, 1, 21.	3.9	5
525	Search for a massive Di-photon resonance at. European Physical Journal C, 1998, 1, 31.	3.9	5
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544	Measurement of the $k_t$ splitting scales in $Z \rightarrow \tau^+ \tau^-$ events in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	3
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546	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
547	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.	3.9	3
548	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
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554	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. , 2015, 75, 1.		2
555	Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
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560	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at ( $\sqrt{s}=8,\mathrm{TeV}$ ) with the ATLAS detector. , 2016, 76, 1.		1
561	Measurement of the W-boson mass in pp collisions at ( $\sqrt{s}=7, \sqrt{s}=8$ ) TeV with the ATLAS detector. , 2018, 78, 1.		1
562	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at ( $\sqrt{s}=13,\sqrt{s}=14$ ) TeV. , 2018, 78, 1.		1
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566	A precise measurement of the tau polarization and its forward-backward asymmetry at LEP. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 365-375.	1.5	0
567	A measurement of the B d oscillation frequency using leptons and $D^{*\pm}$ mesons. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 377-388.	1.5	0
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