

# Y S Gao

## List of Publications by Year in descending order

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Version: 2024-02-01

497  
papers

26,689  
citations

8755

75  
h-index

10445

139  
g-index

528  
all docs

528  
docs citations

528  
times ranked

11434  
citing authors

#	ARTICLE	IF	CITATIONS
1	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	3.9	1,187
2	Test of Lepton Universality Using $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review Letters, 2014, 113, 151601. <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a>	7.8	845
3	Measurement of the Ratio of Branching Fractions $\frac{B \rightarrow J/\psi K^0}{B \rightarrow J/\psi K^*} = 0.22 \pm 0.02$ . Resonances Consistent with Pentaquark States in $B$ . <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a>	7.8	816
4	Measurement of the Ratio of Branching Fractions $\frac{B \rightarrow J/\psi K^0}{B \rightarrow J/\psi K^*} = 0.22 \pm 0.02$ . <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a>		

#	ARTICLE	IF	CITATIONS
19			

#	ARTICLE	IF	CITATIONS
37	Precision measurement and interpretation of inclusive $W^+W^-$ production. European Physical Journal C, 2017, 77, 367.	3.9	145
38	Search for Hidden-Sector Bosons in $B \rightarrow K \gamma$ Decays. Physical Review Letters, 2015, 115, 161802.	7.8	138
39	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
40	Implications of LHCb measurements and future prospects. European Physical Journal C, 2013, 73, 1.	3.9	137
41	Measurement of the $Z \rightarrow \mu^+ \mu^-$ boson transverse momentum distribution in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	131
42	ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	130
43	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349.	3.9	123
44	Measurement of $J/\psi$ polarization in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2631.	3.9	117
45	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s} = 8, 13$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 538.	3.9	115
46	Search for Dark Photons Produced in $13$ TeV Collisions. Physical Review Letters, 2018, 120, 061801.	7.8	113
47	Differential branching fraction and angular analysis of the decay $B \rightarrow K^* \mu^+ \mu^-$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	111
48	Evidence for Exotic Hadron Contributions to $B \rightarrow K^* \mu^+ \mu^-$ . Physical Review Letters, 2016, 117, 082003.	7.8	110
49	Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 5.	3.9	109
50	Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	108
51	Measurement of $J/\psi$ production in pp collisions at $\sqrt{s} = 7, 13$ TeV. European Physical Journal C, 2012, 72, 2025.	3.9	106
52	Search for Majorana Neutrinos in $B \rightarrow K^* \mu^+ \mu^-$ Decays. Physical Review Letters, 2014, 112, 131802.	7.8	106
53	Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7, 13$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	103
54	Differential branching fraction and angular analysis of the decay $B \rightarrow K^* \mu^+ \mu^-$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	103

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55	Measurement of $\langle \sigma \rangle$ Contributions to $\langle \sigma \rangle$ $\langle \sigma \rangle = \langle \sigma \rangle + \langle \sigma \rangle$	7.8	102
56	Violation in the Phase Space of $\langle \sigma \rangle$ $\langle \sigma \rangle = \langle \sigma \rangle + \langle \sigma \rangle$	7.8	101
57	Measurements of prompt charm production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	100
58	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
59	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
60	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	3.9	93
61	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
62	Measurement of the fragmentation fraction ratio $f_s/f_d$ and its dependence on B meson kinematics. Journal of High Energy Physics, 2013, 2013, 1.	4.7	89
63	Search for the $b\bar{b}\hat{A}$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	89
64	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	3.9	87
65	Measurement of $\hat{A}(2S)$ meson production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 2100.	3.9	83
66	Study of D J meson decays to $D + \hat{A}^+$ , $D + \hat{A}^0$ and $D + \hat{A}^-$ final states in pp collisions. Journal of High Energy Physics, 2013, 2013, 1.	4.7	82
67	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
68	Measurement of the prompt J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76.	3.9	81
69	Observation of Overlapping Spin-1 and Spin-3 $\langle \sigma \rangle = \langle \sigma \rangle + \langle \sigma \rangle$	7.8	81
70	Search for dark matter at $\sqrt{s} = 13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. European Physical Journal C, 2017, 77, 393.	7.8	80
71	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
72	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

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73	Measurement of $C \langle P \rangle$ Violation in the Phase Space of $B \rightarrow A_{\pm} K$ decays. Physical Review Letters, 2014, 112, 011801.	7.8	78
74	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
75	Search for Structure in the $B \rightarrow s O$ Mass Spectrum. Physical Review Letters, 2016, 117, 152003.	4.7	78
76	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
77	Measurements of the S-wave fraction in $B \rightarrow K + \bar{\nu} \ell$ decays and the $B \rightarrow K \hat{c} \hat{s}$ differential branching. Journal of High Energy Physics, 2016, 2016, 1.	4.7	75
78	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	3.9	75
79	Study of $J/\psi$ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	74
80	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
81	Measurement of the $\eta_c(1S)$ production cross-section in proton-proton collisions via		

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91	Search for resonances in diphoton events at $s = 13 \sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	70
92	Measurement of the forward Z boson production cross-section in pp collisions at $s = 7 \sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.	4.7	69
93	Search for new resonances in mass distributions of jet pairs using 139 fb <sup>-1</sup> of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	68
94	A search for $t \bar{t}$ resonances using lepton-plus-jets events in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	66
95	Measurement of the isospin asymmetry in $B \rightarrow \tau^+ \nu_{\tau} K^{*0} \rightarrow \tau^+ \nu_{\tau} \rho^0$ decays. Journal of High Energy Physics, 2012, 2012, 165		
96	Production of $J/\psi$ and $\Upsilon$ mesons in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	65
97	Precision measurement of $C \rightarrow P$ violation in $B \rightarrow S$ decays. Physical Review Letters, 2015, 114, 041801.	7.8	65
98	Evidence for the $H \rightarrow b \bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	64
99	Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	64
100	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 $8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 283.	3.9	63
101	Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2016, 76, 154.	3.9	62
102	Measurement of $B \rightarrow c$ in Proton-Proton Collisions at $\sqrt{s} = 7$ and $8 \text{ TeV}$ . Physical Review Letters, 2015, 114, 132001.	7.8	61
103	Charged-particle distributions at low transverse momentum in $\sqrt{s} = 13 \text{ TeV}$ pp interactions measured with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 502.	3.9	61
104	Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s} = 8 \text{ TeV}$ proton-proton collisions in the ATLAS detector. European Physical Journal C, 2017, 77, 241.	3.9	61
105	Prompt and non-prompt $J/\psi$ and $\psi(2S)$ suppression at high transverse momentum in $5.02 \text{ TeV}$ Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	3.9	61
106	Summary of the searches for squarks and gluinos using $s = 8 \sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS experiment at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	4.7	60
107	Measurement of forward $J/\psi$ production cross-sections in pp collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.	4.7	60
108	Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $u \bar{u} + b \bar{b} \rightarrow \gamma, \tau, \nu_{\tau}, \nu_{\tau} + b \bar{b} \bar{A}^-$ final states with the ATLAS detector. European Physical Journal C, 2015, 75, 263.	3.9	60

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109	Opposite-side flavour tagging of B mesons at the LHCb experiment. European Physical Journal C, 2012, 72, 2022.	3.9	58
110	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
111	Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 318.	3.9	56
112	Fiducial, total and differential cross-section measurements of t-channel single top-quark production in pp collisions at $8 \text{ TeV}$ using data collected by the ATLAS detector. European Physical Journal C, 2017, 77, 531.	3.9	56
113	Search for direct top squark pair production in events with a Z boson, b-jets and missing transverse momentum in $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 2883.	3.9	55
114	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
115	Search for pair production of Higgs bosons in the $b\bar{b}$ final state using proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	55
116	Measurements of fiducial cross-sections for $t\bar{t}\hat{A}^-$ production with one or two additional b-jets in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ using the ATLAS detector. European Physical Journal C, 2016, 76, 11.	3.9	54
117	Study of the $D^0 \rightarrow \rho^+ b^0 \hat{A}^+ \hat{A}^-$ decays. Journal of High Energy Physics, 2017, 2017, 14.7	4.7	54
118	Search for massive long-lived particles decaying semileptonically in the LHCb detector. European Physical Journal C, 2017, 77, 224.	3.9	54
119	Measurement of the cross-section for $Z \hat{A}^+ e^+ e^-$ production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	53
120	Measurement of $\psi(2S)$ $\bar{\chi}(2S)$ polarisation in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2014, 74, 2872.	3.9	53
121	Performance of jet substructure techniques for large-R jets in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	52
122	Measurement of CP asymmetry in $D^0 \hat{A}^+ K \hat{A}^- K^+$ and $D^0 \hat{A}^+ \bar{K} \hat{A}^- \bar{K}^+$ decays. Journal of High Energy Physics, 2014, 2014, 1.	4.7	52
123	Measurement of the exclusive $\hat{A}^-$ production cross-section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and $8 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.	4.7	52
124	Search for lepton-flavour-violating $H \hat{A}^+ \hat{A}^-$ decays of the Higgs boson with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	52
125	Measurement of the top quark mass in the $t \rightarrow \text{lepton} + \text{jets}$ and $t \rightarrow \text{dilepton}$ channels using $\sqrt{s} = 7 \text{ TeV}$ ATLAS data. European Physical Journal C, 2015, 75, 330.	3.9	52
126	Measurement of the $b\bar{b}$ -Quark Production Cross Section in 7 and $13 \text{ TeV}$ Collisions. Physical Review Letters, 2017, 118, 052002.	7.8	52



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127	Observation of the Decay $B \rightarrow \mu^+ \mu^- \tau^+ \tau^-$ . Physical Review Letters, 2015, 114, 062004.	7.8	47
128	Search for minimal supersymmetric standard model Higgs Bosons $H/A$ and for a $Z^{\prime}$ boson in the $\sqrt{s} = 13$ TeV $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 585.	3.9	51
129	Measurement of the charged-particle multiplicity inside jets from $\sqrt{s} = 8$ TeV $pp$ collisions with the ATLAS detector. European Physical Journal C, 2016, 76, 322.	3.9	51
130	Measurement of the phase difference between short- and long-distance amplitudes in the $B^+ \rightarrow \mu^+ \mu^- K^+ K^-$ decay. European Physical Journal C, 2017, 77, 161.	3.9	51
131	Measurement of B meson production cross-sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	50
132	Search for the doubly charmed baryon $\Xi_{cc}^+$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	50
133	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295.	3.9	50
134	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
135	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
136	Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s} = 13$ TeV $pp$ collision data collected by the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	49
137	Test of CP invariance in vector-boson fusion production of the Higgs boson using the Optimal Observable method in the ditau decay channel with the ATLAS detector. European Physical Journal C, 2016, 76, 658.	3.9	48
138	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using $36 \text{ fb}^{-1}$ of $\sqrt{s} = 13$ TeV $pp$ collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	48
139	Observation of Two New Resonances. Physical Review Letters, 2015, 114, 062004.	7.8	47
140	Measurements of the production cross section of a $Z$ boson in association with jets in $pp$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 361.	3.9	47
141	Observation of Photon Polarization in the $B^0 \rightarrow \mu^+ \mu^- \gamma$ Transition. Physical Review Letters, 2014, 112, 161801.	7.8	46
142	Study of the rare decays of $B^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. European Physical Journal C, 2016, 76, 513.	3.9	46
143	Measurement of the Higgs boson coupling properties in the $H \rightarrow Z Z^* \rightarrow 4\mu$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	46
144	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

#	ARTICLE	IF	CITATIONS
145	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	46
146	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
147	Search for supersymmetry at $\sqrt{s} = 8$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45
148	Study of prompt $D^0$ meson production in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	45
149	Search for long-lived particles decaying to jet pairs. European Physical Journal C, 2015, 75, 152.	3.9	44
150	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	44
151	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	44
151	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	44
152	Measurement of the $B_c^+$ meson lifetime using $B_c^+ \rightarrow \mu^+ \nu_\mu$ decays. European Physical Journal C, 2014, 74, 2839.	3.9	43
153	Search for charged Higgs bosons in the $H \rightarrow \tau^+ \tau^-$ decay channel in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	43
154	Search for single production of vector-like quarks decaying into $Wb$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 442.	3.9	43
155	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
156	Measurement of the Difference of Time-Integrated Asymmetries in $C \rightarrow P$ Decays. European Physical Journal C, 2016, 76, 55.	7.8	42
157	Performance of top-quark and $W$ -boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1.	3.9	42
158	First observation of the decay $B_c^+ \rightarrow \mu^+ \nu_\mu \psi(3770)$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	41
159	Measurement of the $\tau \rightarrow Z \nu_\tau$ and $\tau \rightarrow W \nu_\tau$ production cross sections in multilepton final states using 3.2 fb of $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 40.	3.9	41
160	Updated search for long-lived particles decaying to jet pairs. European Physical Journal C, 2017, 77, 812.	3.9	41
161	Higgs boson production cross-section measurements and their EFT interpretation in the $h \rightarrow \tau\tau$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	41
162	Study of the $B_c^+ \rightarrow \mu^+ \nu_\mu D_s^+ B_c^+ \rightarrow \mu^+ \nu_\mu D_s^+$ and $B_c^+ \rightarrow \mu^+ \nu_\mu D_s^+ B_c^+ \rightarrow \mu^+ \nu_\mu D_s^+$ decays with the ATLAS detector. European Physical Journal C, 2016, 76, 4.	3.9	40

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163	Measurements of b-jet tagging efficiency with the ATLAS detector using $\sqrt{s}=13$ TeV events at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	40
164	Search for heavy resonances decaying into a pair of Z bosons in the $\sqrt{s}=13$ TeV final states using 139 fb <sup>-1</sup> of proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	40
165	Precision measurement of the mass and lifetime of the $\Lambda_b^0$ . Physical Review Letters, 2014, 113, 242002.	7.8	39
166	Study of the kinematic dependences of $\Lambda_b^0$ production in pp collisions and a measurement of the $\Lambda_b^0 \rightarrow \Lambda_c^+ \bar{c}$ branching fraction. Journal of High Energy Physics, 2014, 2014, 1.	4.7	39
167	Search for flavour-changing neutral current top-quark decays to $qZ$ in $pp$ collision data collected with the ATLAS detector at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 12.	3.9	39
168	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 87.	3.9	39
169	Study of $\Lambda_b^0$ production in jets. Physical Review Letters, 2017, 118, 192001.	7.8	39
170	Search for beautiful tetraquarks in the $\bar{c}(1S)\bar{c} + \bar{c}c$ invariant-mass spectrum. Journal of High Energy Physics, 2018, 2018, 1.	4.7	39
171	Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	38
172	Measurements of WH and ZH production in the $H \rightarrow \bar{b}b$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	38
173	Measurement of the forward-backward asymmetry in $Z \rightarrow \bar{c}c + \bar{c}c$ decays and determination of the effective weak mixing angle. Journal of High Energy Physics, 2015, 2015, 1.	4.7	37
174	Search for bottom squark pair production in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 547.	3.9	37
175	Production of associated Y and open charm hadrons in pp collisions at $\sqrt{s}=7$ TeV and 8 TeV via double parton scattering. Journal of High Energy Physics, 2016, 2016, 1.	4.7	37
176	Measurement of the W boson polarisation in $t\bar{t} + \bar{c}c$ events from pp collisions at $\sqrt{s}=8$ TeV in the lepton+ jets channel with ATLAS. European Physical Journal C, 2017, 77, 264.	3.9	37
177	Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017.	1.2	37
178	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb <sup>-1</sup> of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	37
179	First observation of the decay $B \rightarrow \bar{c}c + \bar{c}c$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	36
180	Measurement of the relative rate of prompt $\bar{c}c$ , $\bar{c}c$ and $\bar{c}c$ production at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	36

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181	Precision Measurement of the Mass and Lifetime of the $\Lambda_b^0$ Baryon. Physical Review Letters, 2014, 113, 032001.	7.8	36
182	Search for heavy lepton resonances decaying to a Z boson and a lepton in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	36
183	Search for heavy long-lived multi-charged particles in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2015, 75, 362.	3.9	36
184	Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	36
185	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	36
186	Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	36
187	Precision Measurement of the $\Lambda_b^0$ Lifetime. Physical Review Letters, 2013, 111, 102003.	4.7	36
188	Observation of the $\Lambda_b^0 \rightarrow J/\psi p \bar{K}^0$ decay. Journal of High Energy Physics, 2014, 2014, 1.	4.7	35
189	Addendum: Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	34
190	Measurement of the $J/\psi$ pair production cross-section in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	34
191	Angular moments of the decay $\Lambda_b^0 \rightarrow \bar{K}^0 \bar{K}^0 J/\psi$ at low hadronic recoil. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
192	Measurements of top-quark pair differential and double-differential cross-sections in the $t\bar{t} + \text{jets}$ channel with pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	34
193	Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	34
194	Study of $\Upsilon$ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	33
195	Analysis of events with b-jets and a pair of leptons of the same charge in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	33
196	Measurement of forward Z $\rightarrow e^+e^-$ production at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	33
197	Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	33
198	Measurements of $\Upsilon(2S)$ and $\chi(3872) \rightarrow J/\psi \pi^+ \pi^-$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	33

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200	Search for the lepton flavour violating decay $\tilde{l}, \tilde{a} \rightarrow \hat{l} + \hat{l} + \hat{l} + \hat{l}$ . Journal of High Energy Physics, 2015, 2015, 1.	4.7	32
201	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $H \rightarrow b\bar{b}$ decay channel at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	32
202	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 66.	3.9	31
203	Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 565.	3.9	31
204	Search for Violations of Lorentz Invariance and $CPT$ Symmetry in $B \rightarrow 0$	7.8	31
205	A search for prompt lepton-jets in pp collisions at $s = 8 \sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	31
206	Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel in pp collisions at $s = 13 \sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
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208	Measurement of $J/\psi$ production in pp collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	30
209	Measurement of charged particle multiplicities and densities in pp collisions at $\sqrt{s} = 7$ TeV in the forward region. European Physical Journal C, 2014, 74, 2888.	3.9	30
210	Measurement of $C \rightarrow P$ Violation in $B \rightarrow 0$	7.8	30
211	Forward production of $\eta$ mesons in pp collisions at $s = 7 \sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
212	Angular analysis of the $B \rightarrow K^* e^+ e^-$ decay in the low- $q^2$ region. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
213	Study of hard double-parton scattering in four-jet events in pp collisions at $s = 7 \sqrt{s} = 7$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2016, 2016, 1.	4.7	30
214	Charged-particle distributions in pp interactions at $\sqrt{s} = 8$ TeV measured with the ATLAS detector. European Physical Journal C, 2016, 76, 403.	3.9	30
215	Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	30
216	Evidence for $t\bar{t}$ production in the multilepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	30

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218	Measurement of the $C\!-\!P$ -Violating Phase $\arg(\lambda_{cb})$ in $B \rightarrow \bar{\chi} \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2016, 2016, 1.	7.8	29
219	Measurement of the CKM angle $\beta$ from a combination of LHCb results. Journal of High Energy Physics, 2016, 2016, 1.	4.7	29
220	A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 pp-collision data with the ATLAS detector. European Physical Journal C, 2017, 77, 26.	3.9	29
221	Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
222	Near-threshold $\overline{D}^0$ spectroscopy and observation of a new charmonium state. Journal of High Energy Physics, 2019, 2019, 1.	4.7	29
223	Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	29
224	Measurement of the $B \rightarrow K^* e^+ e^-$ branching fraction at low dilepton mass. Journal of High Energy Physics, 2013, 2013, 1.	4.7	28
225	First measurement of time-dependent CP violation in $B_{s^0} \rightarrow K^+ K^-$ decays. Journal of High Energy Physics, 2013, 2013, 1.	4.7	28
226	First Observation of a Baryonic $B_c$ Decay. Physical Review Letters, 2014, 113, 152003.	7.8	28
227	Observation of the Decays $B \rightarrow \bar{\chi} \ell^+ \ell^-$ and $B \rightarrow \bar{\chi} \ell^+ \ell^-$ . Physical Review Letters, 2017, 119, 062001.	7.8	28
228	Measurement of the Drell-Yan triple-differential cross section in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	28
229	Studies of the resonance structure in $D^0 \rightarrow K^* \pi^+ \pi^- \pi^+ \pi^-$ decays. European Physical Journal C, 2018, 78, 443.	3.9	28
230	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	28
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232	Violation in $B \rightarrow \bar{\chi} \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2016, 2016, 1.	7.8	27
233	Search for metastable heavy charged particles with large ionisation energy loss in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS experiment. European Physical Journal C, 2015, 75, 111801.	3.9	27
234	First Observation of $D \rightarrow \bar{\chi} \ell^+ \ell^-$ Oscillations in $D \rightarrow \bar{\chi} \ell^+ \ell^-$ Decays. Journal of High Energy Physics, 2016, 2016, 1.	7.8	27

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236	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\tau$ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	27
237	Measurement of prompt hadron production ratios in pp collisions at $\sqrt{s} = 0.9$ and $7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	3.9	26
238	Measurement of mixing and CP violation parameters in two-body charm decays. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	26
239	Angular analysis of charged and neutral B $\rightarrow K^+ K^0$ and $B^0 \rightarrow K^+ K^-$ decays. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	26
240	Search for Higgs-like bosons decaying into long-lived exotic particles. <i>European Physical Journal C</i> , 2016, 76, 664.	3.9	26
241	Measurements of electroweak $W^+W^-$ production and constraints on anomalous gauge couplings with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 474.	3.9	26
242	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $b\bar{b}$ and $b\bar{b}W^+W^-$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	26
243	Measurement of the forward energy flow in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2013, 73, 2421.	3.9	25
244	Observation of the decay $B_c^+ \rightarrow \tau^+ J/\psi K + K^+ \bar{\psi}$ . <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	25
245	Study of forward Z + jet production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	25
246	Searches for $\Lambda_b^0$ and $\Xi_b^0$ decays to $K_{\text{S}}^0 \pi^+$ and $K_{\text{S}}^0 \pi^0$ final states with first observation of the $\Lambda_b^0 \rightarrow K_{\text{S}}^0 \pi^+$ decay. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	25
247	$\frac{\text{Br}(B \rightarrow \tau^+ \nu_\tau)}{\text{Br}(B \rightarrow \tau^+ \nu_\tau)}$	7.8	25
248	Determination of the top-quark pole mass using $t \bar{t} \rightarrow \tau^+ \tau^- + 1$ -jet events collected with the ATLAS experiment in 7 TeV pp collisions. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	25
249	Searches for heavy diboson resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	25
250	Observation of the Annihilation Decay Mode $B_c^+ \rightarrow \tau^+ K^0$ . <i>Physical Review Letters</i> , 2017, 118, 081801.	7.8	25
251	Search for triboson $W^+W^-W^+$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 141.	3.9	25
252	Observation of $B_c^+ \rightarrow \tau^+ D^0$ Decays. <i>Physical Review Letters</i> , 2017, 118, 111803.	7.8	25

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254	Observation of $B^0 \rightarrow \rho^0 \pi^0$ Decays and Measurement of the $\theta(1285)$ Mixing Angle. Physical Review Letters, 2014, 112, 091802.	7.8	24
255	Measurement of the forward W boson cross-section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	24
256	Observation of Z production in proton-lead collisions at LHCb. Journal of High Energy Physics, 2014, 2014, 1.	4.7	24
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258	Observations of $B^0 \rightarrow \rho^0 \pi^0 K^0$ and $B^0 \rightarrow \rho^0 \pi^0 K^0 + K^0$ decays and searches for other $B^0$ and $\bar{B}^0$ decays to $\rho^0 \pi^0$ final states. Journal of High Energy Physics, 2016, 2016, 1.	4.7	24
259	Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2016, 76, 517.	3.9	24
260	Evidence for the Rare Decay $B^0 \rightarrow \rho^0 \pi^0 K^0$ . <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> $B^0 \rightarrow \rho^0 \pi^0 K^0$ Physical Review Letters, 2018, 120, 221803.	7.8	24
261	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	24
262	Measurement of fiducial and differential $W^+W^-$ production cross-sections at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	24
263	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	24
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265	Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 541.	3.9	23
266	Measurement of the forward Z boson production cross-section in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	23
267	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.	4.7	23
268	Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	23
269	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	2.9	23
270	Measurement of the $B^0$ production cross-section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	22



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272	Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	22
273	First Observation of Top Quark Production in the Forward Region. Physical Review Letters, 2015, 115, 112001.	7.8	22
274	Measurement of the $t \hat{t} \hat{A}^{\pm} W$ and $t \hat{t} \hat{A}^{\pm} Z$ production cross sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	22
275	Study of (W/Z)H production and Higgs boson couplings using $H \hat{A}^{\pm} W W \hat{\alpha}^{\pm}$ decays with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	22
276	Measurement of the $C \hat{P}$ Asymmetry in $B \hat{\alpha}^{\pm} B \hat{\alpha}^{\pm} s$ Mixing. Journal of High Energy Physics, 2014, 2014, 1.	7.8	22
277	Measurements of top-quark pair spin correlations in the $\mu \mu$ channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	22
278	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	22
279	Search for CP violation using T-odd correlations in $D \hat{\alpha}^{\pm} K + K \hat{\alpha}^{\pm}$ decays. Journal of High Energy Physics, 2014, 2014, 1.	4.7	21
280	Precise measurements of the properties of the $B_1(5721)_{0,+}$ and $B_2^*(5747)_{0,+}$ states and observation of $B_{c1}$ mass structures. Journal of High Energy Physics, 2015, 2015, 1.	4.7	21
281	Determination of spin and parity of the Higgs boson in the $WW \rightarrow e \mu u \bar{u} WW \hat{\alpha}^{\pm} \hat{\alpha}^{\pm}$ decay channel with the ATLAS detector. European Physical Journal C, 2015, 75, 231.	3.9	21
282	A precise measurement of the $B^0 \rightarrow B^0$ meson oscillation frequency. European Physical Journal C, 2016, 76, 412.	3.9	21
283	The performance of the jet trigger for the ATLAS detector during 2011 data taking. European Physical Journal C, 2016, 76, 526.	3.9	21
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285	Search for the lepton-flavour violating decays $B_0(s) \rightarrow e \hat{A}^{\pm} \hat{A}^{\pm} \hat{A}^{\pm}$ . Journal of High Energy Physics, 2018, 2018, 1.	7.8	21
286	Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV and decaying into collimated leptons or light hadrons with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	21
287	Measurements of the $C \hat{P}$ Asymmetries in $B \hat{\alpha}^{\pm} D \hat{\alpha}^{\pm} K \hat{\alpha}^{\pm}$ Mixing. Physical Review Letters, 2014, 112, 041801.	7.8	20
288	Measurement of the $\hat{\beta}$ mass and of the relative rate of $\hat{\beta}$ $b_1(1P)$ and $\hat{\beta}$ $b_2(1P)$ production. Journal of High Energy Physics, 2014, 2014, 1.	4.7	20

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290	First Experimental Study of Photon Polarization in Radiative $B_s^0$ Decays. Physical Review Letters, 2017, 118, 021801.	7.8	20
291	Measurement of the CP Violation Parameter $A_{FB}^{\ell}$ in $D_0^+ \rightarrow K^+ \bar{K}^0$ and $D_0^+ \rightarrow \bar{K}^0 \pi^+$ Decays. Physical Review Letters, 2017, 118, 261803.	7.8	20
292	Measurements of top quark spin observables in $t \bar{t} \rightarrow \ell^+ \ell^-$ events using dilepton final states in $s = 8 \sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	20
293	Evidence for the decay $B_s^0 \rightarrow \bar{K}^0 \mu^+ \mu^-$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
294	Updated measurement of time-dependent CP-violating observables in $B^0 \rightarrow \psi K^+ K^-$ decays. European Physical Journal C, 2019, 79, 1.	3.9	20
295	Measurement of $k_T$ splitting scales in $W \rightarrow \ell \nu$ events at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2013, 73, 2432.	3.9	19
296	First Measurement of the $C\!-\!P$ -Violating Phase in $B^0 \rightarrow \psi K^+ K^-$ Decays. Physical Review Letters, 2013, 110, 241802.	7.8	19
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298	Search for the production of single vector-like and excited quarks in the $Wt$ final state in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
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301	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb <sup>-1</sup> of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	19
302	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb <sup>-1</sup> of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	19
303	Measurement of $V_0$ production ratios in pp collisions at $\sqrt{s} = 0.9 \text{ TeV}$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	18
304	Measurement of the fraction of $\chi(1S)$ originating from $\chi(1P)$ decays in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	18
305	Measurement of forward $W \rightarrow e \nu$ production in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	4.7	18
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308	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	18
309	Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
310	Measurement of the $\langle \sigma_{\text{had}} \rangle$ for the decay $B \rightarrow D^* \ell^+ \ell^-$ with the ATLAS detector. Physical Review Letters, 2014, 112, 111802.	7.8	17
311	Search for the decay $B_s^0 \rightarrow D^* \ell^+ \ell^-$ . Journal of High Energy Physics, 2015, 2015, 1.	4.7	17
312	Observation of $\Lambda_b^0 \rightarrow \Lambda^0 p K^0$ and $\Lambda_b^0 \rightarrow \Lambda^0 n K^0$ decays and a measurement of the $\Lambda_b^0$ baryon mass. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
313	Identification of high transverse momentum top quarks in pp collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
314	Study of charmonium production in $b$ -hadron decays and first evidence for the decay $B^0 \rightarrow \phi \phi \phi$ . European Physical Journal C, 2017, 77, 609.	3.9	17
315	Improved limit on the branching fraction of the rare decay $K^0 \rightarrow \mu^+ \mu^- K^0$ . European Physical Journal C, 2017, 77, 678.	3.9	17
316	Probing the $Wtb$ vertex structure in t-channel single-top-quark production and decay in pp collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
317	Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $s = 13$ TeV with ATLAS. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
318	Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
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320	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, 1.	4.7	17
321	Search for the $HH \rightarrow b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	17
322	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	17
323	Measurement of the $\sigma(\eta_c)$ production cross-section in $pp$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	17
324	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16

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326	Measurement of forward W and Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
327	Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $\sqrt{s} = 8$ TeV proton-proton collisions. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
328	Top-quark mass measurement in the all-hadronic $t \bar{t} \rightarrow \text{hadrons}$ decay channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	16
329	Study of $\tilde{\chi}^0$ production in pPb collisions at $\sqrt{s_{\text{NN}}} = 8.16$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
330	Measurement of differential cross sections and $W^+ / W^0$ cross-section ratios for W boson production in association with jets at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
331	First Measurement of the Charge Asymmetry in Beauty-Quark Pair Production. Physical Review Letters, 2014, 113, 082003.	7.8	15
332	Measurement of CP violation parameters and polarisation fractions in $B_s^0 \rightarrow J/\psi K^0$ decays. Journal of High Energy Physics, 2015, 2015, 1.	4.7	15
333	Measurement of event-shape observables in $Z \rightarrow \ell^+ \ell^- Z \rightarrow \nu \bar{\nu}$ events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 375.	3.9	15
334	Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW$ with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
335	Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow K^+ K^- \pi^+ \pi^-$ in the $K_S^0 \pi^+ \pi^-$ region. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
336	Search for strong gravity in multijet final states produced in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
337	Measurement of $B \rightarrow D^* s$ and $B \rightarrow D^* \bar{s}$ decays. Physical Review Letters, 2017, 119, 181801.	7.8	15
338	Observation of the suppressed decay $\bar{b} \rightarrow \bar{c} \pi^+ \pi^-$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
339	Search for excited B c + states. Journal of High Energy Physics, 2018, 2018, 1.	4.7	15
340	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1.	3.9	15
341	Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	15
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343	A study of the Z production cross-section in pp collisions at $\sqrt{s}=7\text{ TeV}$ using tau final states. Journal of High Energy Physics, 2013, 2013, 1.	4.7	14
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345	Measurement of CP asymmetry in $B^0 \rightarrow D^+ \pi^-$ decays. Journal of High Energy Physics, 2014, 2014, 1.	4.7	14
346	Measurement of the inelastic pp cross-section at a centre-of-mass energy of $\sqrt{s} = 7\text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.	4.7	14
347	A search for top squarks with R-parity-violating decays to all-hadronic final states with the ATLAS detector in $\sqrt{s}=8\text{ TeV}$ proton-proton collisions. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
348	Study of $\Upsilon(2S)$ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}}=5.02\text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
349	Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
350	First Observation of a Baryonic $\Lambda_b^0 \rightarrow p \pi^-$ Decay. Physical Review Letters, 2017, 119, 041802.	4.7	14
351	Measurement of the CKM angle $\hat{\rho}$ using $B^0 \rightarrow D^+ K^{\mp}$ with $D^0 \rightarrow K^+ K^{\mp}$ , $D^0 \rightarrow K^+ K^0$ decays. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
352	Amplitude Analysis of the Decay $B^0 \rightarrow K^+ K^0 \pi^-$ and First Observation of the CP Asymmetry in $B^0 \rightarrow K^+ K^0 \pi^-$ . Physical Review Letters, 2018, 120, 261801.	7.8	14
353	Measurement of $V_{Hb}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
354	Prompt $b+c$ production in pPb collisions at $\sqrt{s_{NN}}=5.02\text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
355	Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
356	Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
357	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s}=13\text{ TeV}$ . European Physical Journal C, 2021, 81, 1.	3.9	14
358	Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $\sqrt{s} = 13\text{ TeV}$ using the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
359	Search for $\overline{t}t$ resonances in fully hadronic final states in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
360	Measurement of the c-jet mistagging efficiency in $t\bar{t}$ events using pp collision data at $\sqrt{s}=13\text{ TeV}$ collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	14

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362	Search for CP violation in $D_{\text{S}}^{\pm} \rightarrow K_{\text{S}}^0 K^{\pm}$ and $D_{\text{S}}^{\pm} \rightarrow K_{\text{S}}^0 \bar{K}^{\pm}$ decays. Journal of High Energy Physics, 2014, 2014, 1.	4.7	13
363	Measurement of polarization amplitudes and CP asymmetries in $B^0 \rightarrow \bar{K}^* (892) 0$ . Journal of High Energy Physics, 2014, 2014, 1.	4.7	13
364	Measurement of the time-integrated CP asymmetry in $D_{\text{S}}^0 \rightarrow K_{\text{S}}^0 K_{\text{S}}^0$ decays. Journal of High Energy Physics, 2015, 2015, 1.	4.7	13
365	Measurement of the ratio of branching fractions $\hat{a}_{\text{B}} \rightarrow B_c + \hat{a}^+ J / \hat{a}_{\text{B}} \rightarrow B_c + \hat{a}^+ J$ . Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
366	Measurement of the CP-violating phase $\delta_{\text{S}}$ and the $B_{\text{S}}^0$ meson decay width difference with $B_{\text{S}}^0 \rightarrow \bar{K}^* 0 / \bar{K}^* 0$ decays in ATLAS. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
367	Study of $D_{\text{S}}^{\pm} \rightarrow K_{\text{S}}^0$ mesons decaying to $D_{\text{S}}^{\pm} \rightarrow K_{\text{S}}^0$ and $D_{\text{S}}^0 \rightarrow K^+ K^-$ final states. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
368	Search for new phenomena with photon+jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
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370	Measurement of CP asymmetry in $B^0 \rightarrow \bar{K}^* 0 \rightarrow K_{\text{S}}^0 K^{\pm}$ decays. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
371	Measurement of $\bar{t} t$ production in $pp$ collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
372	Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	13
373	Measurement of CP asymmetries and polarisation fractions in $B_{\text{S}}^0 \rightarrow \bar{K}^* 0 \rightarrow K_{\text{S}}^0 K^{\pm}$ decays. Journal of High Energy Physics, 2015, 2015, 1.	4.7	12
374	Measurement of the $\overline{b} b \bar{A}^{\pm}$ dijet cross section in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 670.	3.9	12
375	Violation in $B_{\text{S}}^0 \rightarrow K_{\text{S}}^0 K^{\pm}$ decays. Physical Review Letters, 2016, 117, 261801.	7.8	12
376	Search for decays of neutral beauty mesons into four muons. Journal of High Energy Physics, 2017, 2017, 1.	4.7	12
377	Measurement of the inelastic $pp$ cross-section at a centre-of-mass energy of 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
378	Amplitude analysis of $B^0 \rightarrow \bar{K}^* 0 \rightarrow K_{\text{S}}^0 K^{\pm}$ decays. Journal of High Energy Physics, 2019, 2019, 1.	4.7	12

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380	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	12
381	Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s} = 8.16$ TeV p+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	12
382	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.	3.9	12
383	Search for supersymmetry in events with four or more charged leptons in $139 \text{ fb}^{-1}$ of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	12
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385	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.	4.7	12
386	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	12
387	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.	3.9	12
388	Measurement of the $B \rightarrow D^* \ell \bar{\nu}_\ell$ branching fraction and search for the decay $B \rightarrow D^* \tau \bar{\nu}_\tau$ . <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	11
389	Measurement of four-jet differential cross sections in $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1-76.	4.7	11
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391	Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period. <i>Journal of Instrumentation</i> , 2016, 11, P05013-P05013.	1.2	11
392	Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV recorded with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 683.	3.9	11
393	Measurement of jet activity produced in top-quark events with an electron, a muon and two b-tagged jets in the final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 220.	3.9	11
394	New algorithms for identifying the flavour of $B^0$ mesons using pions and protons. <i>European Physical Journal C</i> , 2017, 77, 238.	3.9	11
395	First measurement of the CP-violating phase $\arg(\frac{V_{cb} V_{cd}^*}{V_{ub} V_{ud}^*})$ in $B^0 \rightarrow K^* \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	11
396	Search for CP violation using triple product asymmetries in $B^0 \rightarrow K^* \ell^+ \ell^-$ , $B^0 \rightarrow K^* K^+ K^-$ and $B^0 \rightarrow K^* \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	11

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398	Amplitude analysis of the $B_{(s)}^0 \rightarrow K^0 \bar{K}^0$ decays and measurement of the branching fraction of the $B^0 \rightarrow K^0 \bar{K}^0$ decay. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
399	Measurements of CP asymmetries in charmless four-body $\Lambda_b^0$ and $\Xi_b^0$ decays. European Physical Journal C, 2019, 79, 1.	3.9	11
400	Search for the rare decay $B^+ \rightarrow \mu^+ \mu^- \mu^+ \nu_\mu$ . European Physical Journal C, 2019, 79, 1.	3.9	11
401	A search for $\Xi_{cc}^{++} \rightarrow D^+ p \bar{K}^0$ decays. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
402	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.	4.7	11
403	Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	10
404	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
405	Evidence for the two-body charmless baryonic decay $B^+ \rightarrow p \bar{\Lambda}^0$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
406	Study of $\overline{b}b$ correlations in high energy proton-proton collisions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
407	Search for a dimuon resonance in the $\bar{\nu}$ mass region. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
408	Measurement of branching fractions of charmless four-body $\bar{b} \rightarrow b \bar{0}$ and $\bar{b} \rightarrow b \bar{0}$ decays. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
409	Dalitz plot analysis of the $D^+ \rightarrow \bar{K}^0 K^+ K^+$ decay. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
410	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W_{\pm}$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
411	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.	4.7	10
412	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with $139 \text{ fb}^{-1}$ of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
413	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
414	First observation of the decay $B_s^0 \rightarrow \phi \bar{K}^{*0}$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	9



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415	First observations of the rare decays $B \rightarrow \bar{c} K + \bar{c} \ell + \bar{c} \ell \bar{\nu} + \bar{\nu} + \bar{\nu} + \bar{\nu}$ and $B \rightarrow \bar{c} K + \bar{c} \ell + \bar{\nu} + \bar{\nu}$ . Journal of High Energy Physics, 2014, 2014, 1.	4.7	9
416	Observation of the $B_s \rightarrow \bar{c} \ell \bar{\nu} + \bar{c} \ell \bar{\nu}$ Decay. Physical Review Letters, 2015, 115, 051801.	7.8	9
417	Search for the $\bar{b} \rightarrow \bar{c} \ell \bar{\nu} + \bar{c} \ell \bar{\nu}$ and $\bar{b} \rightarrow \bar{c} \ell \bar{\nu} + \bar{c} \ell \bar{\nu}$ decays with the LHCb detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	9
418	Measurement of the Z+b-jet cross-section in pp collisions at $\sqrt{s} = 7$ TeV in the forward region. Journal of High Energy Physics, 2015, 2015, 1.	4.7	9
419	Model-independent measurement of the CKM angle $\beta^3$ using $B \rightarrow D K \ell \ell$ decays with $B \rightarrow D K \ell \ell$ and $B \rightarrow D K \ell \ell$ . Journal of High Energy Physics, 2016, 2016, 1.	4.7	9
420	A new method to distinguish hadronically decaying boosted Z bosons from W bosons using the ATLAS detector. European Physical Journal C, 2016, 76, 238.	3.9	9
421	Observation of the Decay $\bar{b} \rightarrow \bar{c} \ell \bar{\nu} + \bar{c} \ell \bar{\nu}$ . Physical Review Letters, 2017, 118, 071801.	7.8	9
422	Measurements of charge and CP asymmetries in b-hadron decays using top-quark events collected by the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	9
423	Measurement of the ZZ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ZZ $\rightarrow \ell \ell + \ell \ell$ and ZZ $\rightarrow \ell \ell + \ell \ell$ decay channels with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	9
424	Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	9
425	Measurement of the $\Upsilon(nS)$ polarizations in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	9
426	Search for lepton-flavour-violating decays of Higgs-like bosons. European Physical Journal C, 2018, 78, 1008.	3.9	9
427	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	9
428	Measurement of the $Z(\bar{c} \ell \bar{\nu})^3$ 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
429	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
430	Observation of the $B \rightarrow \bar{c} \ell \bar{\nu} + \bar{c} \ell \bar{\nu}$ decay. Journal of High Energy Physics, 2014, 2014, 1.	4.7	8
431	Measurement of the relative width difference of the $B \rightarrow \bar{c} \ell \bar{\nu} + \bar{c} \ell \bar{\nu}$ system with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8
432	Observation of the $B \rightarrow \bar{c} \ell \bar{\nu} + \bar{c} \ell \bar{\nu}$ decay. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8

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433	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.	4.7	8
434	Observation of the decay $\bar{b} \rightarrow \bar{c} \ell^+ \nu_{\ell} (2S) p \bar{c}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
435	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
436	Measurements of $W+W\gamma + \text{1 jet}$ production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
437	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.	4.7	8
438	Reconstruction and identification of boosted di- $\tau$ , systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
439	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.	3.9	8
440	Limits on neutral Higgs boson production in the forward region in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	7
441	Searches for $B_{(s)}^0 \rightarrow \psi \left( \psi \right) \overline{p} \ell^+$ and $B \rightarrow \tau^+ \ell^- p \overline{p} \ell^+$ decays. Journal of High Energy Physics, 2013, 2013, 1.	4.7	7
442	First observation and measurement of the branching fraction for the decay $B \rightarrow D^* \ell^+ \ell^- K^{\pm}$ . Journal of High Energy Physics, 2015, 2015, 1.	4.7	7
443	Observation of $B^+ \rightarrow \psi \left( \psi \right) \overline{p} \ell^+$ and $B^+ \rightarrow \psi \left( \psi \right) \overline{p} \ell^+$ decays. European Physical Journal C, 2017, 77, 72.	3.9	7
444	Measurement of CP observables in $B^{\pm} \rightarrow DK^{\pm}$ decays using two- and four-body D final states. Journal of High Energy Physics, 2017, 2017, 1.	4.7	7
445	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K^0 S^0$ decays. Journal of High Energy Physics, 2018, 2018, 1.	4.7	7
446	Study of the $B^0 \rightarrow \psi \left( \psi \right) \overline{p} \ell^+$ decay with an amplitude analysis of $B^0 \rightarrow \psi \left( \psi \right) \overline{p} \ell^+$ decays. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
447	Observation of the $\Lambda_b^0 \rightarrow \psi \left( \psi \right) \overline{p} \ell^+$ (3872) p $\bar{K}^0$ decay. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
448	Search for CP violation through an amplitude analysis of $D^0 \rightarrow K^+ K^{\mp} \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
449	Search for dijet resonances in events with an isolated charged lepton using $\sqrt{s} = 13$ TeV proton-proton collision data collected by the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	7
450	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\sqrt{s} = 13$ TeV proton-proton collision data. European Physical Journal C, 2021, 81, 1.	3.9	7

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451	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	3.9	7
452	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
453	Measurement of CP observables in $B^0 \rightarrow DK^* \rightarrow 0$ with $D^* \rightarrow K + K^*$ . Journal of High Energy Physics, 2013, 2013, 47.	4.7	6
454	Determination of the branching fractions of $B^0 \rightarrow D^* K^*$ and $B^0 \rightarrow D^* K^*$ . Journal of High Energy Physics, 2015, 2015, 1.	4.7	6
455	Observation of $B^0 \rightarrow D^* K^*$ and Evidence for $B^0 \rightarrow D^* K^*$ Decays. Physical Review Letters, 2016, 116, 161802.	4.8	6
456	Measurement of $Z \rightarrow \bar{l} l, \gamma \gamma, \gamma \nu$ production in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	6
457	Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ and 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
458	Measurement of CP violation in the $B^0 \rightarrow \phi \phi$ decay and search for the $B^0 \rightarrow \bar{l} l$ decay. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
459	Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	6
460	Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.	3.9	6
461	First observation of the decay $B^0 \rightarrow K^* K^* (892)^0$ at LHCb. Journal of High Energy Physics, 2016, 2016, 1.	5	5
462	Measurement of $D^* \rightarrow s$ production asymmetry in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	5
463	Measurement of the ratio of branching fractions of the decays $B^0 \rightarrow \bar{l} l (2S) \bar{l}$ and $B^0 \rightarrow \bar{l} l / \bar{l} \bar{l}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
464	Measurement of CP observables in the process $B^0 \rightarrow DK^*$ with two- and four-body D decays. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
465	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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