

Y S Gao

List of Publications by Year in descending order

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Version: 2024-02-01

497
papers

26,689
citations

8732

75
h-index

10424

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.	1.4	1,187
2	Test of Lepton Universality Using $B \rightarrow K^* \ell^+ \ell^-$ Decays Physical Review Letters, 2014, 113, 151601. http://www.w3.org/1998/Math/MathML	2.9	845
3	Resonances Consistent with Pentaquark States in $J/\psi \rightarrow p \bar{p}$ Measurement of the Ratio of Branching Fractions $\frac{\mathcal{B}(J/\psi \rightarrow p \bar{p})}{\mathcal{B}(J/\psi \rightarrow e^+ e^-)}$ Physical Review Letters, 2014, 113, 151601. http://www.w3.org/1998/Math/MathML	2.9	816
4	Measurement of the Ratio of Branching Fractions $\frac{\mathcal{B}(J/\psi \rightarrow p \bar{p})}{\mathcal{B}(J/\psi \rightarrow e^+ e^-)}$ Physical Review Letters, 2014, 113, 151601. http://www.w3.org/1998/Math/MathML		

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19			
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#	ARTICLE	IF	CITATIONS
37	Precision measurement and interpretation of inclusive W^+W^- , W^+W^- . European Physical Journal C, 2017, 77, 367.	1.4	145
38	Search for Hidden-Sector Bosons in $B \rightarrow K^* \mu^+ \mu^-$ Decays. Physical Review Letters, 2015, 115, 161802.	2.9	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.	1.4	138
40	Implications of LHCb measurements and future prospects. European Physical Journal C, 2013, 73, 1.	1.4	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.	1.6	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.	1.4	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.	1.4	123
44	Measurement of J/ψ polarization in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2631.	1.4	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.	1.4	115
46	Search for Dark Photons Produced in 13 TeV pp Collisions. Physical Review Letters, 2018, 120, 061801.	2.9	113
47	Differential branching fraction and angular analysis of the decay $B \rightarrow K^* \mu^+ \mu^-$. Journal of High Energy Physics, 2013, 2013, 1.	1.6	111
48	Evidence for Exotic Hadron Contributions to $B \rightarrow K^* \mu^+ \mu^-$ Decays. Physical Review Letters, 2016, 117, 082003.	2.9	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.	1.4	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.	1.6	108
51	Measurement of J/ψ production in pp collisions at $\sqrt{s} = 7, 13$ TeV. European Physical Journal C, 2012, 72, 2025.	1.4	106
52	Search for Majorana Neutrinos in $B \rightarrow K^* \mu^+ \mu^-$ Decays. Physical Review Letters, 2014, 112, 131802.	2.9	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.	1.6	103
54	Differential branching fraction and angular analysis of the decay $B \rightarrow K^* \mu^+ \mu^-$. Journal of High Energy Physics, 2013, 2013, 1.	1.6	103

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55	Measurement of prompt charm production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	2.9	102
56	Measurement of $\tilde{\chi}(2S)$ meson production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 2100.	2.9	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.	1.6	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.	1.4	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.	1.4	95
60	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	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.	1.4	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.	1.6	89
63	Search for the $b\bar{b}\tilde{H}$ 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.	1.6	89
64	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	1.4	87
65	Measurement of $\tilde{\chi}(2S)$ meson production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 2100.	1.4	83
66	Study of D J meson decays to $D + \tilde{\chi}^{\pm}$, $D + \tilde{\chi}^0$ and $D + \tilde{\chi}^{\pm}$ final states in pp collisions. Journal of High Energy Physics, 2013, 2013, 1.	1.6	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.	1.4	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.	1.4	81
69	Search for the Decays $B \rightarrow \tilde{\chi}^{\pm} \tilde{\chi}^0$ and $B \rightarrow \tilde{\chi}^{\pm} \tilde{\chi}^{\pm}$. Journal of High Energy Physics, 2014, 2014, 1.	2.9	81
70	Observation of Overlapping Spin-1 and Spin-3. Physical Review Letters, 2014, 113, 162001.	2.9	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.	1.4	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.	1.4	79

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73	Measurement of $C \times P$ Violation in the Phase Space of $B \rightarrow A_{\pm} K$. Physical Review Letters, 2014, 112, 011801.	2.9	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.	1.6	78
75	Search for Structure in the $B \rightarrow s \gamma$ Mass Spectrum. Physical Review Letters, 2016, 117, 152003.	1.6	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.	1.4	77
77	Measurements of the S-wave fraction in $B \rightarrow K + \bar{\nu} \ell$ decays and the $B \rightarrow K \hat{c} \hat{c}^* (892) \ell^+ \ell^-$ differential branching. Journal of High Energy Physics, 2016, 2016, 1.	1.6	75
78	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	1.4	75
79	Study of J/ψ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	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.	1.4	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.	1.6	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.	1.6	69
93	Search for new resonances in mass distributions of jet pairs using 139 fb ⁻¹ of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	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.	1.6	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/ψ and Υ mesons in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	1.6	65
97	Precision measurement of $C \rightarrow P$ violation in $B \rightarrow S \ell^+ \ell^-$ decays. Physical Review Letters, 2015, 114, 041801.	2.9	65
98	Evidence for the $H \rightarrow b \bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	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.	1.4	64
100	Measurement of the differential cross-sections of prompt and non-prompt production of J/ψ and $\psi(2S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283.	1.4	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.	1.4	62
102	Measurement of $B \rightarrow c \ell \bar{\nu}_{\ell}$ in Proton-Proton Collisions at $\sqrt{s} = 7$ and 8 TeV . Physical Review Letters, 2015, 114, 132001.	2.9	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.	1.4	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.	1.4	61
105	Prompt and non-prompt J/ψ and $\psi(2S)$ suppression at high transverse momentum in $\sqrt{s} = 5.02 \text{ TeV}$ Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	1.4	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.	1.6	60
107	Measurement of forward J/ψ production cross-sections in pp collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	1.6	60
108	Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $u \bar{u} + b \bar{b} \rightarrow \hat{a}, \hat{a}', \hat{a}'' / \hat{a}, \hat{a}', \hat{a}'' \rightarrow \tau^+ \tau^- / \tau^+ \tau^- + b \bar{b} \hat{A}^-$ final states with the ATLAS detector. European Physical Journal C, 2015, 75, 263.	1.4	60

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109	Opposite-side flavour tagging of B mesons at the LHCb experiment. European Physical Journal C, 2012, 72, 2022.	1.4	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.	1.6	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.	1.4	56
112	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.	1.4	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.	1.4	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.	1.6	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.	1.6	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.	1.4	54
117	Study of the $D^0 \rightarrow p \hat{A}^-$ amplitude in $\hat{A}^0 \rightarrow b^0 \hat{A}^+ \hat{A}^- D^0 \rightarrow \hat{A}^+ \hat{A}^-$ decays. Journal of High Energy Physics, 2017, 2017, 11.6	1.6	54
118	Search for massive long-lived particles decaying semileptonically in the LHCb detector. European Physical Journal C, 2017, 77, 224.	1.4	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.	1.6	53
120	Measurement of $\psi(2S)$ $\hat{A}^- (2S)$ polarisation in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2014, 74, 2872.	1.4	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.	1.6	52
122	Measurement of CP asymmetry in $D^0 \hat{A}^+ K \hat{A}^- K^+$ and $D^0 \hat{A}^+ \hat{A}^- \hat{A}^+ \hat{A}^-$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	52
123	Measurement of the exclusive \hat{A}^- production cross-section in pp collisions at $s = 7 \text{ TeV}$ and 8 TeV . Journal of High Energy Physics, 2015, 2015, 1.	1.6	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.	1.6	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.	1.4	52
126	Measurement of the $b\bar{b}$ -Quark Production Cross Section in 7 and 13 TeV Collisions. Physical Review Letters, 2017, 118, 052002.	2.9	52

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127	Observation of the Decay $B \rightarrow \tau \nu_\tau$. Physical Review Letters, 2015, 114, 062004.	2.9	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.	1.4	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.	1.4	51
130	Measurement of the phase difference between short- and long-distance amplitudes in the $B \rightarrow K^* \mu^+ \mu^-$ decay. European Physical Journal C, 2017, 77, 161.	1.4	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.	1.6	50
132	Search for the doubly charmed baryon Ξ_{cc}^+ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
133	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295.	1.4	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.	1.4	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.	1.6	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.	1.6	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.	1.4	48
138	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	48
139	Observation of Two New Resonances. Physical Review Letters, 2015, 114, 062004.	2.9	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.	1.4	47
141	Observation of Photon Polarization in the $B \rightarrow \tau \nu_\tau$ Transition. Physical Review Letters, 2014, 112, 161801.	2.9	46
142	Study of the rare decays of $B^0 \rightarrow s \mu^+ \mu^-$ 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.	1.4	46
143	Measurement of the Higgs boson coupling properties in the $H \rightarrow Z \mu^+ \mu^-$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	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.	1.4	46

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163	Measurements of b-jet tagging efficiency with the ATLAS detector using $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
164	Search for heavy resonances decaying into a pair of Z bosons in the $\sqrt{s}=13$ TeV 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.	1.4	40
165	Precision measurement of the mass and lifetime of the τ lepton. Physical Review Letters, 2014, 113, 242002.	2.9	39
166	Study of the kinematic dependences of $b\bar{b}$ production in pp collisions and a measurement of the $b\bar{b}$ branching fraction. Journal of High Energy Physics, 2014, 2014, 1.	1.6	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.	1.4	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.	1.4	39
169	Study of $t\bar{t}$ production in jets. Physical Review Letters, 2017, 118, 192001.	2.9	39
170	Search for beautiful tetraquarks in the $\sqrt{s}=13$ TeV invariant-mass spectrum. Journal of High Energy Physics, 2018, 2018, 1.	1.6	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.	1.6	38
172	Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	38
173	Measurement of the forward-backward asymmetry in $Z \rightarrow \tau^+\tau^-$ decays and determination of the effective weak mixing angle. Journal of High Energy Physics, 2015, 2015, 1.	1.6	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.	1.4	37
175	Production of associated Y and open charm hadrons in pp collisions at $\sqrt{s}=7$ and 8 TeV via double parton scattering. Journal of High Energy Physics, 2016, 2016, 1.	1.6	37
176	Measurement of the W boson polarisation in $t\bar{t} + \cancel{E}_T$ events from pp collisions at $\sqrt{s}=8$ TeV in the lepton+jets channel with ATLAS. European Physical Journal C, 2017, 77, 264.	1.4	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.	0.5	37
178	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb ⁻¹ of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	37
179	First observation of the decay $B \rightarrow \tau^+\tau^- + \cancel{E}_T$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	36
180	Measurement of the relative rate of prompt $b\bar{c}$, $b\bar{s}$ and $b\bar{b}$ production at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	36

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181	Precision Measurement of the Mass and Lifetime of the Λ_b^0 Baryon. Physical Review Letters, 2014, 113, 032001.	2.9	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.	1.6	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.	1.4	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.	1.4	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.	1.6	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.	1.4	36
187	Precision Measurement of the Λ_b^0 Lifetime. Physical Review Letters, 2013, 111, 102003.	1.6	36
188	Observation of the $\Lambda_b^0 \rightarrow \Lambda^0 \mu^+ \mu^-$ decay. Journal of High Energy Physics, 2014, 2014, 1.	1.6	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.	1.6	34
190	Measurement of the J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	34
191	Angular moments of the decay $\Lambda_b^0 \rightarrow \Lambda^0 \mu^+ \mu^-$ at low hadronic recoil. Journal of High Energy Physics, 2018, 2018, 1.	1.6	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.	1.4	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.	1.4	34
194	Study of Υ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	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.	1.6	33
196	Measurement of forward Z $\rightarrow e^+e^-$ production at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	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.	1.6	33
198	Measurements of $\Upsilon(2S)$ and $\chi(3872) \rightarrow J/\psi + \eta$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	33

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199	Measurement of the Semileptonic $C \times P$ Asymmetry in $B \rightarrow 0$ \times 2.9		32
200	Search for the lepton flavour violating decay $\tilde{l}, \tilde{\nu} \rightarrow \hat{l} \tilde{l} + \hat{l} \tilde{\nu}$. Journal of High Energy Physics, 2015, 2015, 1.		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.	1.4	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.	1.4	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.	1.4	31
204	Search for Violations of Lorentz Invariance and $C \times P \times T$ Symmetry in $B \rightarrow 0$	2.9	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.	1.6	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.	1.6	31
207	Measurement of charged particle multiplicities in pp collisions at $\sqrt{s} = 7$ TeV in the forward region. European Physical Journal C, 2012, 72, 1.	1.4	30
208	Measurement of J/ψ production in pp collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	30
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363	Measurement of polarization amplitudes and CP asymmetries in $B^0 \rightarrow \tau^+ \tau^- K^*(892)^0$. Journal of High Energy Physics, 2014, 2014, 1.	1.6	13
364	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K^0 K^0$ decays. Journal of High Energy Physics, 2015, 2015, 1.	1.6	13
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367	Study of D_{s1}^* mesons decaying to $D^{\pm} K^0$ and $D^0 K^+$ final states. Journal of High Energy Physics, 2016, 2016, 1.	1.6	13
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370	Measurement of CP asymmetry in $B^0 \rightarrow D^{\pm} K^{\mp}$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
371	Measurement of $\tilde{\chi}^0$ production in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	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.	1.4	13
373	Measurement of CP asymmetries and polarisation fractions in $B_s^0 \rightarrow \tau^+ K^{\mp} \bar{K}^0$ decays. Journal of High Energy Physics, 2015, 2015, 1.	1.6	12
374	Measurement of the $\overline{b}b$ dijet cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 670. Measurement of $\overline{b}b$ dijet cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 670.	1.4	12
375	Violation in $B^0 \rightarrow D^+ D^-$ decays. Physical Review Letters, 2016, 117, 261801. Violation in $B^0 \rightarrow D^+ D^-$ decays. Physical Review Letters, 2016, 117, 261801.	2.9	12
376	Search for decays of neutral beauty mesons into four muons. Journal of High Energy Physics, 2017, 2017, 1.	1.6	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.	1.6	12
378	Amplitude analysis of $B^0 \rightarrow K^0 K^{\pm} K^{\mp}$ decays. Journal of High Energy Physics, 2019, 2019, 1.	1.6	12

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379	Observation of the associated production of a top quark and a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	12
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.	1.6	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.	1.4	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.	1.4	12
383	Search for supersymmetry in events with four or more charged leptons in 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	12
384	Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	12
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.	1.6	12
386	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	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.	1.4	12
388	Measurement of the $B \rightarrow 0 \text{ } \hat{\tau} \hat{\tau}^*$ branching fraction and search for the decay $B \rightarrow 0 \text{ } \hat{\tau} \hat{\tau}^*$. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	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.	1.6	11
390	Search for long-lived heavy charged particles using a ring imaging Cherenkov technique at LHCb. <i>European Physical Journal C</i> , 2015, 75, 595.	1.4	11
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.	0.5	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.	1.4	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.	1.4	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.	1.4	11
395	First measurement of the CP-violating phase $\phi_{s^{\overline{d}}}$ in $B^0 \rightarrow (K^+ \hat{\tau}^*)(K^+ \hat{\tau}^-)$ decays. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	11
396	Search for CP violation using triple product asymmetries in $B^0 \rightarrow (K^+ \hat{\tau}^*)(K^+ \hat{\tau}^-)$ and $B^0 \rightarrow (K^+ \hat{\tau}^*)(K^+ \hat{\tau}^-)$ decays. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	11

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397	First observation of $B \rightarrow \bar{D} s + K \bar{K}^0$ decays and a search for $B \rightarrow \bar{D} s + \bar{\nu}_\tau$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11
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.	1.6	11
399	Measurements of CP asymmetries in charmless four-body Λ_b^0 and Ξ_b^0 decays. European Physical Journal C, 2019, 79, 1.	1.4	11
400	Search for the rare decay $B^+ \rightarrow \mu^+ \mu^- \mu^+ \nu_\mu$. European Physical Journal C, 2019, 79, 1.	1.4	11
401	A search for $\Xi_{cc}^{++} \rightarrow D^+ p \bar{K}^0$ decays. Journal of High Energy Physics, 2019, 2019, 1.	1.6	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.	1.6	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.	1.6	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.	1.4	10
405	Evidence for the two-body charmless baryonic decay $B^+ \rightarrow p \bar{\Lambda}^0$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
406	Study of $\overline{b}b$ correlations in high energy proton-proton collisions. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
407	Search for a dimuon resonance in the $\bar{\nu}_\tau$ mass region. Journal of High Energy Physics, 2018, 2018, 1.	1.6	10
408	Measurement of branching fractions of charmless four-body $\bar{b} \rightarrow b 0$ and $\bar{b} \rightarrow b 0$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	10
409	Dalitz plot analysis of the $D^+ \rightarrow \bar{K}^0 K^+ K^+$ decay. Journal of High Energy Physics, 2019, 2019, 1.	1.6	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.	1.6	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.	1.6	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 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	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.	1.6	10
414	First observation of the decay $B_s^0 \rightarrow \phi \bar{K}^{*0}$. Journal of High Energy Physics, 2013, 2013, 1.	1.6	9

#	ARTICLE	IF	CITATIONS
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.	1.6	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.	2.9	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.	1.6	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.	1.6	9
419	Model-independent measurement of the CKM angle β^3 using $B \rightarrow D K^* \ell \bar{\nu}$ decays with $B \rightarrow D K^* \ell \bar{\nu}$ and $B \rightarrow D K^* \ell \bar{\nu}$. Journal of High Energy Physics, 2016, 2016, 1.	1.6	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.	1.4	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.	2.9	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.	1.6	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.	1.6	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.	1.6	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.	1.6	9
426	Search for lepton-flavour-violating decays of Higgs-like bosons. European Physical Journal C, 2018, 78, 1008.	1.4	9
427	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	9
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.	1.6	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.	1.4	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.	1.6	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.	1.6	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.	1.6	8

#	ARTICLE	IF	CITATIONS
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. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	8
434	Observation of the decay $\tilde{t} \rightarrow b \tilde{t}^* \tilde{t}^* (2S) p \tilde{t}^*$. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	8
435	Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	8
436	Measurements of $W+W \rightarrow 1$ jet production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	8
437	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	8
438	Reconstruction and identification of boosted di- \tilde{l} , systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	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. <i>European Physical Journal C</i> , 2022, 82, 1.	1.4	8
440	Limits on neutral Higgs boson production in the forward region in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	7
441	Searches for $B_{(s)}^0 \rightarrow \psi p$ and $B \rightarrow \psi p$ decays. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	7
442	First observation and measurement of the branching fraction for the decay $B \rightarrow D s \tilde{t}^* \tilde{t}^* K^*$. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	7
443	Observation of $B \rightarrow \psi \psi \psi$ and $B \rightarrow \psi \psi \psi$ decays. <i>European Physical Journal C</i> , 2017, 77, 72.	1.4	7
444	Measurement of CP observables in $B \rightarrow DK^*$ decays using two- and four-body D final states. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	7
445	Measurement of the time-integrated CP asymmetry in $D \rightarrow K S K^0 S$ decays. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	7
446	Study of the $B \rightarrow K^*(892) \psi \psi$ decay with an amplitude analysis of $B \rightarrow K^*(892) \psi \psi$ decays. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	7
447	Observation of the $\Lambda_b^0 \rightarrow \psi c$ (3872) $p K^*$ decay. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	7
448	Search for CP violation through an amplitude analysis of $D \rightarrow K^* \psi \psi$ decays. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	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. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	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. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	7

#	ARTICLE	IF	CITATIONS
451	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	1.4	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, .	1.4	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, 16	1.6	6
454	Determination of the branching fractions of $B^0 \rightarrow D^+ D^- K^+ K^-$ and $B^0 \rightarrow D^+ D^- K^+ K^+$. Journal of High Energy Physics, 2015, 2015, 1.	1.6	6
455	Observation of $B_s^0 \rightarrow D^+ K^- S^0$ and Evidence for $B_s^0 \rightarrow D^+ K^- S^0$ Decays. Physical Review Letters, 2016, 116, 161802.	1.6	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.	1.6	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.	1.6	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.	1.6	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.	1.6	6
460	Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.	1.4	6
461	First observation of the decay $B^0 \rightarrow K^+ K^- S^0 K^+ K^- (892)^0$ at LHCb. Journal of High Energy Physics, 2016, 2016, 1.	1.6	5
462	Measurement of $D^{\pm} s$ production asymmetry in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	5
463	Measurement of the ratio of branching fractions of the decays $\bar{B}^0 \rightarrow \bar{B}^0 (2S) \bar{l} l$ and $\bar{B}^0 \rightarrow \bar{B}^0 J/\psi \bar{l} l$. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
464	Measurement of CP observables in the process $B^0 \rightarrow DK^* \rightarrow 0$ with two- and four-body D decays. Journal of High Energy Physics, 2019, 2019, 1.	1.6	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.	1.6	5
466	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. European Physical Journal C, 2021, 81, 1.	1.4	5
467	The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1.	1.4	5
468	Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	4

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470	Measurement of forward top pair production in the dilepton channel in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	4
471	Measurement of CP violation in $B^0 \rightarrow D^+ \pi^-$ decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	4
472	Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	4
473	Measurement of hadronic event shapes in high-pT multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
474	Search for top squarks in events with a Higgs or Z boson using 139 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	4
475	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \mu^{\pm} \nu_{\mu} \rightarrow \mu^{\pm} \pi^{\pm} \nu_{\mu} \nu_{\tau}$ events in Run 2 data. European Physical Journal C, 2022, 82, 1.	1.4	4
476	Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
477	Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
478	Search for the $B_s^0 \rightarrow \pi^+ \pi^-$ decay. Journal of High Energy Physics, 2017, 2017, 1.	1.6	3
479	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B^+ \rightarrow J/\psi \pi^+$ and $B^+ \rightarrow J/\psi K^+$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	3
480	Measurement of the branching fraction and CP asymmetry in $B^+ \rightarrow J/\psi \pi^+$ decays. European Physical Journal C, 2019, 79, 1.	1.4	3
481	Measurements of inclusive and differential cross-sections of combined γ and $t\bar{t}$ production in the e^+e^- channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	3
482	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.	1.6	3
483	Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8, 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	3
484	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. , 2015, 75, 1.		3
485	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. , 2015, 75, 1.		3
486	Measurement of b-quark fragmentation properties in jets using the decay $B^+ \rightarrow J/\psi K^+$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3

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487	A search for an excited muon decaying to a muon and two jets in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. <i>New Journal of Physics</i> , 2016, 18, 073021.	1.2	2
488	Measurement of the CP asymmetry in $B^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow \pi^+ \pi^0$ decays. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	2
489	Observation of the doubly Cabibbo-suppressed decay $\bar{B}^0 \rightarrow \pi^+ \pi^-$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.		2
490	Measurements of prompt charm production cross-sections in pp collisions at $(\sqrt{s}=13)$ TeV. , 2016, 2016, 1.		2
491	Observation of double charm production involving open charm in pp collisions at $(\sqrt{s} = 7\text{ TeV})$. , 2012, 2012, 1.		2
492	Measurements of the S-wave fraction in $B^0 \rightarrow K^+ K^- \pi^+ \pi^-$ decays and the $B^0 \rightarrow K^+ K^- \pi^+ \pi^-$ differential branching fraction. , 2016, 2016, 1.		2
493	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. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	1.6	2
494	Measurement of the energy asymmetry in $t\bar{t}$ production at 13 TeV with the ATLAS experiment and interpretation in the SMEFT framework. <i>European Physical Journal C</i> , 2022, 82, .	1.4	2
495	Observation of the decay $B_s^0 \rightarrow \chi_{c2} K^+ K^-$ in the \bar{B} mass region. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	1
496	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $(\sqrt{s}=8\text{ TeV})$ with the ATLAS detector. , 2016, 76, 1.		1
497	Calibration of ICARUS Detector Walls. , 1900, , .		0