

# Alexander Bitadze

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

186  
papers

3,861  
citations

23  
h-index

58  
g-index

204  
ext. papers

5,481  
ext. citations

5.2  
avg, IF

1.48  
L-index

#	Paper	IF	Citations
186	The ATLAS Experiment at the CERN Large Hadron Collider. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08003-S08003		1273
185	Test of lepton universality with $B^0 \rightarrow K^{*0} \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	298
184	Observation of the Doubly Charmed Baryon $\chi_{cc}^{++}$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 112001	7.4	257
183	Observation of Five New Narrow $\chi_{c0}$ States Decaying to $\chi_{c0} K^+$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 182001	7.4	154
182	Measurement of the Ratio of the $B^0 \rightarrow D^{*+} \ell^+ \ell^-$ and $B^0 \rightarrow D^{*+} \ell^+ \ell^-$ Branching Fractions Using Three-Prong Lepton Decays. <i>Physical Review Letters</i> , <b>2018</b> , 120, 171802	7.4	126
181	Measurement of the $B_{s1}^0 \rightarrow B^+ \ell^-$ Branching Fraction and Effective Lifetime and Search for $B^0 \rightarrow B^+ \ell^-$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 191801	7.4	106
180	Observation of $J/\psi$ Structures Consistent with Exotic States from Amplitude Analysis of $B^+ \rightarrow J/\psi K^+$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 022003	7.4	98
179	Evidence for Exotic Hadron Contributions to $\psi(3700) \rightarrow B^0 \bar{B}^0$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 082003	7.4	91
178	Search for Structure in the $B_{s1}^0$ Invariant Mass Spectrum. <i>Physical Review Letters</i> , <b>2016</b> , 117, 152003	7.4	64
177	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $(\sqrt{s}=13)$ (text {TeV}) pp collisions using the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	50
176	Measurements of the S-wave fraction in $B^0 \rightarrow K^+ \pi^- \pi^0$ decays and the $B^0 \rightarrow K^{*0} \pi^0$ differential branching fraction. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	48
175	ATLAS b-jet identification performance and efficiency measurement with $(t\bar{t})$ events in pp collisions at $(\sqrt{s}=13)$ TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	43
174	Search for the Decays $B_{s1}^0 \rightarrow B^+ \ell^-$ and $B^0 \rightarrow B^+ \ell^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 251802	7.4	40
173	Measurement of the b-Quark Production Cross Section in 7 and 13 TeV pp Collisions. <i>Physical Review Letters</i> , <b>2017</b> , 118, 052002	7.4	36
172	Search for massive long-lived particles decaying semileptonically in the LHCb detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 224	4.2	35
171	Study of the $D^0 \rightarrow p$ amplitude in $D^0 \rightarrow p \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	33
170	Constraints on mediator-based dark matter and scalar dark energy models using $(\sqrt{s}) = 13$ TeV pp collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	31

169	Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	30
168	Study of prompt $D^0$ meson production in pPb collisions at ( $\sqrt{s_{\mathrm{N};\mathrm{N}}}=5$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	27
167	Measurement of the phase difference between short- and long-distance amplitudes in the [Formula: see text] decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 161	4.2	25
166	Measurement of the $J/\psi$ pair production cross-section in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	25
165	Updated search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , <b>2017</b> , 77, 812	4.2	23
164	Measurement of the CKM angle $\Gamma$ from a combination of LHCb results. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	23
163	Observation of the Decays $B^0 \rightarrow D^+ K^-$ and $B^0 \rightarrow D^+ K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 062001	7.4	22
162	Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	21
161	Study of $J/\psi$ Production in Jets. <i>Physical Review Letters</i> , <b>2017</b> , 118, 192001	7.4	20
160	Search for new resonances in mass distributions of jet pairs using 139 fb $^{-1}$ of pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	20
159	Observation of the Annihilation Decay Mode $B^0 \rightarrow K^+ K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 081801	7.4	18
158	Measurement of the CP Asymmetry in $B_{\mathrm{s}}^0$ - $B_{\mathrm{s}}^0$ Mixing. <i>Physical Review Letters</i> , <b>2016</b> , 117, 061803	7.4	18
157	Search for long-lived neutral particles in pp collisions at ( $\sqrt{s}$ ) = 13 TeV that decay into displaced hadronic jets in the ATLAS calorimeter. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	18
156	Searches for third-generation scalar leptoquarks in ( $\sqrt{s}$ ) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	18
155	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. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	17
154	First Experimental Study of Photon Polarization in Radiative $B_{\mathrm{s}}^0$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 021801	7.4	16
153	Search for Higgs-like bosons decaying into long-lived exotic particles. <i>European Physical Journal C</i> , <b>2016</b> , 76, 664	4.2	16
152	Measurement of fiducial and differential ( $W^+W^-$ ) production cross-sections at ( $\sqrt{s}$ )=13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	16

151	Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at ( $\sqrt{s_{\mathrm{NN}}} = 5.02 \text{ TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	16
150	Observation of $D^0$ Meson Decays to $\pi^+\pi^-\pi^+\pi^-$ and $K^+K^-\pi^+\pi^-$ Final States. <i>Physical Review Letters</i> , <b>2017</b> , 119, 181805	7.4	14
149	Observation of $B_c^+-D^0K^+$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 111803	7.4	13
148	Resonances and CP violation in $B^0$ and ( $\overline{B}_s^0 \rightarrow J/\psi \{K^+\{K^-\}$ ) decays in the mass region above the $\psi(1020)$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	13
147	Fluctuations of anisotropic flow in Pb+Pb collisions at ( $\sqrt{s_{\mathrm{NN}}} = 5.02 \text{ TeV}$ ) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	13
146	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. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	13
145	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at ( $\sqrt{s}=13$ ) TeV. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	13
144	Measurement of the forward Z boson production cross-section in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	13
143	Measurements of top-quark pair differential and double-differential cross-sections in the ( $\ell\ell$ )+jets channel with pp collisions at ( $\sqrt{s}=13$ ) TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	13
142	Higgs boson production cross-section measurements and their EFT interpretation in the ( $4\ell$ ) decay channel at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	12
141	Measurement of the top-quark mass in ( $\overline{t}$ ) + 1-jet events collected with the ATLAS detector in pp collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	12
140	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at ( $\sqrt{s}=8 \text{ TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	11
139	Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow K^* \pi^0$ in the $K^*_{0,2}(1430)$ region. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	11
138	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $13 \text{ TeV}$ . <i>European Physical Journal C</i> , <b>2019</b> , 79,	4.2	11
137	Measurement of the CP Violation Parameter $A_{FB}^0$ in $D^0 \rightarrow K^+K^-$ and $D^0 \rightarrow \pi^+\pi^-$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 261803	7.4	11
136	Jet energy scale and resolution measured in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	11
135	Observation of New Resonances Decaying to $J/\psi \pi^+$ and $J/\psi \pi^0$ . <i>Physical Review Letters</i> , <b>2021</b> , 127, 082001	7.4	11
134	Study of charmonium production in $\pi$ -hadron decays and first evidence for the decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 609	4.2	10

133	Search for diboson resonances in hadronic final states in 139 fb <sup>-1</sup> of pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	10
132	Measurement of $B_{s^0}$ and $D_{s^*}$ Meson Lifetimes. <i>Physical Review Letters</i> , <b>2017</b> , 119, 101801	7.4	10
131	Observation of the suppressed decay $\Lambda_b \rightarrow p \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	10
130	First Observation of a Baryonic $B_{s^0}$ Decay. <i>Physical Review Letters</i> , <b>2017</b> , 119, 041802	7.4	10
129	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	9
128	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $4(\ell\ell)$ decay channel at ( $\sqrt{s}$ ) = 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	9
127	Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
126	Measurement of $VH$ , ( $\text{H} \rightarrow \text{b}\overline{\text{b}}$ ) production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
125	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in ( $\sqrt{s}$ ) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
124	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. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
123	Evidence for $(\text{t}\bar{\text{t}})$ production in the multilepton final state in proton-proton collisions at ( $\sqrt{s}=13$ ) (text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	8
122	Search for light long-lived neutral particles produced in pp collisions at ( $\sqrt{s} = 13$ -mathrm {TeV}) and decaying into collimated leptons or light hadrons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	8
121	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
120	Measurements of top-quark pair spin correlations in the $(\text{e}\mu)$ channel at ( $\sqrt{s} = 13$ ) TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	8
119	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at ( $\sqrt{\text{mathrm}{s}}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	8
118	Search for heavy resonances decaying into a pair of Z bosons in the $(\text{e}\ell^+\text{e}\ell^-\text{M}^+\text{M}^-)$ and $(\text{e}\ell^+\text{e}\ell^-\nu\bar{\nu})$ final states using 139 (mathrm {fb}^{-1}) of proton-proton collisions at ( $\sqrt{s} = 13$ ),TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	8
117	Search for charged Higgs bosons decaying into a top quark and a bottom quark at ( $\sqrt{\text{mathrm}{s}}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	8
116	Measurement of forward W and Z boson production in association with jets in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	8

115	Measurement of forward $W$ - $\bar{\nu}_\tau$ production in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	8
114	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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	8
113	Observation of the Decay $\Xi_{bb}^{\pm} \rightarrow \bar{p} K^{\pm}$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 071801	7.4	7
112	Improved limit on the branching fraction of the rare decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 678	4.2	7
111	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> , <b>2020</b> , 2020, 1	5.4	7
110	Transverse momentum and process dependent azimuthal anisotropies in $(\sqrt{s_{\text{NN}}}=8.16)$ TeV p+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	7
109	Search for decays of neutral beauty mesons into four muons. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	7
108	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	7
107	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $(\sqrt{s} = 13, \text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	7
106	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $(\ell\ell b\bar{b})$ and $(\ell\ell WW)$ final states in pp collisions at $(\sqrt{s}=13)$ (TeV) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	7
105	Measurement of $(W^{\pm} \nu)$ boson production in Pb+Pb collisions at $(\sqrt{s_{\text{NN}}}) = 5.02$ - $\text{TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	7
104	Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	7
103	Measurements of WH and ZH production in the $(H \rightarrow b\bar{b})$ decay channel in pp collisions at $(13, \text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	7
102	Search for $(\overline{t})$ resonances in fully hadronic final states in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	6
101	Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	6
100	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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	6
99	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a lepton in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	6
98	Measurement of CP Violation in $B^0 \rightarrow D^+ D^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 261801	7.4	6



97	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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5-4	5
96	Study of $(\overline{\text{b}}\text{b})$ correlations in high energy proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	5
95	Branching Fraction Measurements of the Rare $B_{\text{s}}^{0\rightarrow\pi^+\pi^-}$ and $B_{\text{s}}^{0\rightarrow\rho^+\rho^-}$ Decays. <i>Physical Review Letters</i> , <b>2021</b> , 127, 151801	7-4	5
94	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. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	5
93	Search for the $\text{HH} \rightarrow \overline{\text{b}}\text{b}$ process via vector-boson fusion production using proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	5
92	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> , <b>2020</b> , 2020, 1	5-4	5
91	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5-4	5
90	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. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4-2	5
89	Measurement of the ratio of branching fractions $(\text{BR}(\text{B} \rightarrow \text{c} \ell^+ \nu_{\ell}) / \text{BR}(\text{B} \rightarrow \text{c} \ell^+ \nu_{\ell}))$ . <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5-4	5
88	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> , <b>2021</b> , 81, 1	4-2	5
87	Search for dark matter in association with an energetic photon in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5-4	5
86	Observation of $\text{B} \rightarrow \text{K}^* \ell^+ \nu_{\ell}$ and $\text{B} \rightarrow \text{K}^* \ell^+ \nu_{\ell}$ decays. <i>European Physical Journal C</i> , <b>2017</b> , 77, 72	4-2	4
85	New algorithms for identifying the flavour of $\text{B} \rightarrow \text{K}^* \ell^+ \nu_{\ell}$ mesons using pions and protons. <i>European Physical Journal C</i> , <b>2017</b> , 77, 238	4-2	4
84	Evidence for the two-body charmless baryonic decay $(\text{B}^+ \rightarrow \overline{\Lambda}^0)$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	4
83	First Observation of the Rare Purely Baryonic Decay $\text{B}^+ \rightarrow \text{p} \overline{\Lambda}^0$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 232001	7-4	4
82	Search for heavy diboson resonances in semileptonic final states in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4-2	4
81	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4-2	4
80	Measurement of $J/\psi$ production in association with a $W$ boson with pp data at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	4

79	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. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	4
78	Search for dark matter produced in association with a single top quark in ( $\sqrt{s}=13$ ) TeV (pp) collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	4
77	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> , <b>2020</b> , 2020, 1	5.4	3
76	Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at ( $\sqrt{s}=8$ ) and 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	3
75	Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} \sim 13$ TeV with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79,	4.2	3
74	Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	3
73	Measurement of $K_S^0$ and $\Lambda^0$ production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	3
72	Reconstruction and identification of boosted di- $\tau$ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
71	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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	3
70	Measurement of hadronic event shapes in high- $p_T$ multijet final states at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	3
69	Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	2
68	Measurement of the $Z(\rightarrow\tau\tau)$ production cross-section in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
67	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B \rightarrow \tau/\mu/\nu\tau$ and $B \rightarrow \tau/\mu/\nu\mu$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	2
66	Measurement of prompt charged-particle production in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	2
65	Analysis of Neutral B-Meson Decays into Two Muons.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 041801	7.4	2
64	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> , <b>2021</b> , 81, 1	4.2	2
63	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> , <b>2021</b> , 2021, 1	5.4	2
62	Measurement of the inclusive isolated-photon cross section in pp collisions at ( $\sqrt{s}$ ) = 13 TeV using 36 fb $^{-1}$ of ATLAS data. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2



61	Measurements of the S-wave fraction in $B^0 \rightarrow \pi^+ \pi^- \pi^0$ decays and the $B^0 \rightarrow \pi^+ \pi^- (892)^0$ differential branching fraction <b>2016</b> , 2016, 1		2
60	Measurements of inclusive and differential cross-sections of combined $(\overline{t}\gamma)$ and $tW$ production in the $e\bar{e}$ channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
59	Measurement of isolated-photon plus two-jet production in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
58	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	2
57	Search for supersymmetry in events with four or more charged leptons in 139 fb of $(\sqrt{s}) = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
56	Measurement of ZZ production in the final state with the ATLAS detector in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
55	Measurement of $(W^{\pm})$ -boson and Z-boson production cross-sections in pp collisions at $(\sqrt{s}=2.76)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	2
54	Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $(\sqrt{s}) = 13$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
53	Search for the $B^0_s \rightarrow \mu^+ \mu^-$ decay. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	1
52	Search for Baryon-Number Violating $[b]^0$ Oscillations. <i>Physical Review Letters</i> , <b>2017</b> , 119, 181807	7.4	1
51	Search for top squarks in events with a Higgs or Z boson using 139 fb of pp collision data at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	1
50	Angular analysis of the rare decay $(B_s^0 \rightarrow \mu^+ \mu^-)$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
49	Measurement of $J/\psi$ production cross-sections in pp collisions at $(\sqrt{s}) = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
48	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> , <b>2020</b> , 2020, 1	5.4	1
47	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. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
46	Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
45	Search for CP violation in $(D_{(s)}^+ \rightarrow h^+ \pi^0)$ and $(D_{(s)}^+ \rightarrow h^+ \eta)$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
44	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W$ and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1

43	A search for the decays of stopped long-lived particles at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
42	Measurement of single top-quark production in association with a W boson in the single-lepton channel at $(\sqrt{s} = 8, \text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
41	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> , <b>2021</b> , 81, 1	4.2	1
40	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
39	Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
38	Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
37	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> , <b>2022</b> , 82, 1	4.2	1
36	Search for the radiative $\chi_{i,b} \rightarrow \gamma b$ decay. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
35	Performance of the ATLAS Level-1 topological trigger in Run 2. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	0
34	Measurement of the W boson mass. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
33	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> , <b>2022</b> , 2022, 1	5.4	0
32	Measurement of $\tau(3872)$ production in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
31	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 $13 \leq \sqrt{s} \leq 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	0
30	Evidence for a New Structure in the $J/\psi$ and $J/\psi[\text{over } \psi]$ Systems in $B_{s^0} \rightarrow J/\psi p[\text{over } \psi]$ Decays. <i>Physical Review Letters</i> , <b>2022</b> , 128, 062001	7.4	0
29	Measurement of the $t(\bar{t})t(\bar{t})$ production cross section in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
28	Observation of a $(\lambda_{b^0})[\overline{\lambda}_{b^0}]$ production asymmetry in proton-proton collisions at $(\sqrt{s}) = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
27	Observation of the decay $(\lambda_{b^0})[\overline{\lambda}_{b^0}] \rightarrow \tau p[\text{over } \tau]$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
26	Measurements of $W+W[\text{over } W]$ jet production cross-sections in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0

25	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at ( $\sqrt{s}=13$ ,text {TeV}). <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	○
24	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> , <b>2021</b> , 2021, 1	5.4	○
23	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. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	○
22	Search for the doubly charmed baryon $\Xi_{cc}$ . <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2021</b> , 64, 1	3.6	○
21	Observation of the Mass Difference between Neutral Charm-Meson Eigenstates. <i>Physical Review Letters</i> , <b>2021</b> , 127, 111801	7.4	○
20	Study of Z Bosons Produced in Association with Charm in the Forward Region.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 082001	7.4	○
19	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 <sup>-1</sup> of pp collision data at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
18	AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , <b>2022</b> , 6, 1	6	○
17	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W \rightarrow \tau \rightarrow \pi \nu_{\tau} \nu_{\tau}$ events in Run2 data. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	○
16	Searches for rare $B_s^0$ and $B^0$ decays into four muons. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
15	Measurement of the Nuclear Modification Factor and Prompt Charged Particle Production in p-Pb and pp Collisions at $\sqrt{s_{NN}}=5$ TeV.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 142004	7.4	○
14	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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
13	Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
12	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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
11	Simultaneous determination of CKM angle $\Gamma$ and charm mixing parameters. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
10	Search for the doubly charmed baryon $\Xi_{cc}^+$ in the $\Xi_{cc}^+ \rightarrow \pi^+ \pi^+$ final state. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
9	Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow \mu \mu$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
8	Study of charmonium and charmonium-like contributions in $B^+ \rightarrow \mu^+ \mu^+$ decays. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○

7	Observation of Two New Excited $\chi_{b^0}^{\prime}$ States Decaying to $\chi_{b^0} K^{\prime+}$ .. <i>Physical Review Letters</i> , <b>2022</b> , 128, 162001	7.4	○
6	Search for the decay $B_0 \rightarrow \mu\mu$ <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
5	Study of $\mathcal{B}(\mathrm{B}_{\mathrm{c}}^+ \rightarrow \text{charmonia and three light hadrons})$ . <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	
4	Angular analysis of $(B^0 \rightarrow D^{*+} D_s^{*-})$ with $(D_s^{*+} \rightarrow D_s^+ \gamma)$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	
3	Observation of $\mathcal{B}(\Lambda_b^0 \rightarrow \mathcal{D}^+ p)$ and $\mathcal{B}(\Lambda_b^0 \rightarrow \mathcal{D}^{*+} p)$ decays. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	
2	The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	
1	Updated search for $\mathcal{B}(B_c^+ \rightarrow \text{two charm mesons})$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	