

Alexander Bitadze

List of Publications by Year in Descending Order

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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	Measurement of prompt charged-particle production in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	2
185	Study of $\{B\}_c^+$ decays to charmonia and three light hadrons. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	
184	Search for the radiative $\{X\}_b^0$ decay. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
183	Performance of the ATLAS Level-1 topological trigger in Run2. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	0
182	Measurement of the W boson mass. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
181	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	5.4	0
180	Analysis of Neutral B-Meson Decays into Two Muons.. <i>Physical Review Letters</i> , 2022 , 128, 041801	7.4	2
179	Measurement of $\{B\}_1(3872)$ production in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
178	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 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	0
177	Evidence for a New Structure in the J/ψ and $J/\psi/\psi'$ Systems in $B_{s^0} \rightarrow J/\psi p$ Decays.. <i>Physical Review Letters</i> , 2022 , 128, 062001	7.4	0
176	Study of Z Bosons Produced in Association with Charm in the Forward Region.. <i>Physical Review Letters</i> , 2022 , 128, 082001	7.4	0
175	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 of pp collision data at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
174	AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , 2022 , 6, 1	6	0
173	Observation of $\{\Lambda\}_b^0$ and $\{\Lambda\}_b^0 \rightarrow \{D^*+p\}$ decays. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	
172	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \tau^{\pm} \rightarrow \pi^{\pm} \nu_{\tau} \nu_{\tau}$ events in Run2 data. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	0
171	The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	
170	Searches for rare $\{B\}_s^0$ and B_0 decays into four muons. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0

169	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> , 2022 , 128, 142004	7.4	0
168	Study of charmonium and charmonium-like contributions in $B^+ \rightarrow J/\psi K^+$ decays. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
167	Observation of Two New Excited $\chi_{b^0}^{\prime}$ States Decaying to $\chi_{b^0} K^+ \pi^-$.. <i>Physical Review Letters</i> , 2022 , 128, 162001	7.4	0
166	Search for the decay $B_0 \rightarrow \mu^+ \mu^- \pi^0$ <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
165	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	4.2	1
164	Angular analysis of the rare decay $(B_s^0) \rightarrow \mu^+ \mu^- \pi^0$ <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
163	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	4.2	2
162	Measurement of the $t(\overline{t})t(\overline{t})$ production cross section in pp collisions at ($\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0
161	Measurement of J/ψ production cross-sections in pp collisions at ($\sqrt{s} = 5$ TeV). <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
160	Branching Fraction Measurements of the Rare $B_{s^0} \rightarrow \mu^+ \mu^-$ and $B_{s^0} \rightarrow \mu^+ \mu^- \pi^0$ Decays. <i>Physical Review Letters</i> , 2021 , 127, 151801	7.4	5
159	Observation of a (λ_{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> , 2021 , 2021, 1	5.4	0
158	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	5.4	2
157	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> , 2021 , 81, 1	4.2	7
156	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> , 2021 , 2021, 1	5.4	5
155	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> , 2021 , 2021, 1	5.4	1
154	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> , 2021 , 2021, 1	5.4	6
153	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
152	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> , 2021 , 81, 1	4.2	5

151	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	2
150	Search for heavy resonances decaying into a pair of Z bosons in the $(e^+e^- \rightarrow e^+e^- \mu^+\mu^-)$ and $(e^+e^- \rightarrow e^+e^- \nu\bar{\nu})$ final states using 139 fb ⁻¹ of proton-proton collisions at ($\sqrt{s} = 13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	8
149	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> , 2021 , 2021, 1	5.4	6
148	Observation of the decay $(\Lambda_b^0 \rightarrow \mu^+ p)$. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0
147	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $(e^+e^- \rightarrow e^+e^- \mu^+\mu^-)$ and $(e^+e^- \rightarrow e^+e^- W^+W^-)$ final states in pp collisions at ($\sqrt{s}=13$) (text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
146	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> , 2021 , 2021, 1	5.4	3
145	Angular analysis of $(B^0 \rightarrow D^{*+} D_s^{*-})$ with $(D_s^{*+} \rightarrow D_s^+ \gamma)$ decays. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	
144	Measurements of $W+W$ 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	5.4	0
143	Search for charged Higgs bosons decaying into a top quark and a bottom quark at ($\sqrt{s} = 13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
142	Search for CP violation in $(D_{s1}^+ \rightarrow h^+ \pi^0)$ and $(D_{s1}^+ \rightarrow h^+ \eta)$ decays. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
141	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> , 2021 , 81, 1	4.2	0
140	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> , 2021 , 2021, 1	5.4	6
139	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	5.4	2
138	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> , 2021 , 2021, 1	5.4	1
137	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	5.4	0
136	A search for the decays of stopped long-lived particles at ($\sqrt{s} = 13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
135	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> , 2021 , 81, 1	4.2	13
134	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> , 2021 , 2021, 1	5.4	3

133	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> , 2021 , 2021, 1	5.4	8
132	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	4.2	5
131	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. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
130	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> , 2021 , 2021, 1	5.4	5
129	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> , 2021 , 81, 1	4.2	0
128	Measurement of single top-quark production in association with a W boson in the single-lepton channel at (\sqrt{s}) = 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
127	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> , 2021 , 81, 1	4.2	11
126	Observation of New Resonances Decaying to J/ψ and J/ψ . <i>Physical Review Letters</i> , 2021 , 127, 082001	7.4	11
125	Search for the doubly charmed baryon Ξ_{cc} . <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	0
124	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	4.2	1
123	Observation of the Mass Difference between Neutral Charm-Meson Eigenstates. <i>Physical Review Letters</i> , 2021 , 127, 111801	7.4	0
122	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> , 2021 , 81, 1	4.2	4
121	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> , 2021 , 2021, 1	5.4	2
120	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
119	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> , 2021 , 2021, 1	5.4	0
118	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> , 2021 , 2021, 1	5.4	0
117	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> , 2021 , 2021, 1	5.4	0
116	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> , 2021 , 81, 1	4.2	1

115	Simultaneous determination of CKM angle $\bar{\chi}$ and charm mixing parameters. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0
114	Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
113	Search for the doubly charmed baryon χ_{cc}^+ in the $\chi_c^+ \pi^+ \pi^+$ final state. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0
112	Updated search for B_c^+ decays to two charm mesons. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	
111	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> , 2021 , 2021, 1	5.4	0
110	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	5.4	7
109	Higgs boson production cross-section measurements and their EFT interpretation in the (4ell) decay channel at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	12
108	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> , 2020 , 2020, 1	5.4	8
107	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb of data collected with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
106	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	5.4	3
105	Measurement of the $Z(\rightarrow \mu\mu)$ production cross-section in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
104	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> , 2020 , 80, 1	4.2	3
103	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> , 2020 , 80, 1	4.2	7
102	Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	30
101	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> , 2020 , 80, 1	4.2	50
100	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> , 2020 , 80, 1	4.2	1
99	Evidence for $(t\bar{t})$ 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> , 2020 , 80, 1	4.2	8
98	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> , 2020 , 80, 1	4.2	4

97	Search for light long-lived neutral particles produced in pp collisions at ($\sqrt{s} = 13 \text{ TeV}$) and decaying into collimated leptons or light hadrons with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8
96	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> , 2020 , 80, 1	4.2	17
95	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
94	Measurement of J/ψ production in association with a W boson with pp data at 8 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	4
93	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> , 2020 , 2020, 1	5.4	20
92	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> , 2020 , 2020, 1	5.4	6
91	Reconstruction and identification of boosted di- τ 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	5.4	3
90	Measurements of inclusive and differential cross-sections of combined ($\overline{t}\gamma$) and tW production in the $e\tau$ channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
89	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
88	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
87	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> , 2020 , 80, 1	4.2	9
86	Fluctuations of anisotropic flow in Pb+Pb collisions at ($\sqrt{\langle s \rangle_{NN}}$) = 5.02 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	13
85	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> , 2020 , 80, 1	4.2	13
84	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	5.4	1
83	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> , 2020 , 2020, 1	5.4	2
82	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> , 2020 , 2020, 1	5.4	5
81	Search for the $HH \rightarrow \overline{b}\overline{b}$ 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> , 2020 , 2020, 1	5.4	5
80	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	5.4	5

79	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> , 2020 , 80, 1	4.2	7
78	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> , 2020 , 2020, 1	5.4	1
77	Measurements of top-quark pair spin correlations in the $(\mu\mu)$ channel at $(\sqrt{s} = 13)$ TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8
76	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $(\sqrt{s}=8\text{--}13\text{ TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	11
75	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> , 2019 , 2019, 1	5.4	8
74	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> , 2019 , 79, 1	4.2	2
73	Measurement of $VH, (\text{H})\rightarrow\overline{\text{b}}\text{b}$ 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> , 2019 , 2019, 1	5.4	8
72	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> , 2019 , 2019, 1	5.4	5
71	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> , 2019 , 2019, 1	5.4	31
70	Search for long-lived neutral particles in pp collisions at $(\sqrt{s}) = 13\text{--}13\text{ TeV}$ that decay into displaced hadronic jets in the ATLAS calorimeter. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	18
69	Searches for third-generation scalar leptoquarks in $(\sqrt{s}) = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	18
68	Search for diboson resonances in hadronic final states in 139 fb ⁻¹ of pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	10
67	Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} \sim 13\text{--}13\text{ TeV}$ with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , 2019 , 79,	4.2	3
66	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $13\text{--}13\text{ TeV}$. <i>European Physical Journal C</i> , 2019 , 79,	4.2	11
65	Measurement of K_S^0 and Λ^0 production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	3
64	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> , 2019 , 2019, 1	5.4	2
63	Measurement of the top-quark mass in $(\overline{t}) + 1\text{-jet}$ events collected with the ATLAS detector in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	12
62	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> , 2019 , 79, 1	4.2	16

61	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> , 2019 , 2019, 1	5.4	2
60	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> , 2019 , 79, 1	4.2	2
59	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> , 2019 , 79, 1	4.2	4
58	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> , 2019 , 2019, 1	5.4	21
57	Measurement of (W^{\pm}) 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> , 2019 , 79, 1	4.2	7
56	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> , 2019 , 79, 1	4.2	43
55	Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at ($\sqrt{s_{\text{NN}}} = 5.02\text{~TeV}$) with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	16
54	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> , 2019 , 79, 1	4.2	13
53	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> , 2019 , 2019, 1	5.4	7
52	Measurement of the Ratio of the $B^0 \rightarrow D^{*-} \mu^+ \nu$ and $B^0 \rightarrow D^{*-} \tau^+ \nu$ Branching Fractions Using Three-Prong Lepton Decays. <i>Physical Review Letters</i> , 2018 , 120, 171802	7.4	126
51	Observation of J/ψ Structures Consistent with Exotic States from Amplitude Analysis of $B^+ \rightarrow J/\psi K^+$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 022003	7.4	98
50	Observation of the Annihilation Decay Mode $B^0 \rightarrow K^+ K^-$. <i>Physical Review Letters</i> , 2017 , 118, 081801	7.4	18
49	First Experimental Study of Photon Polarization in Radiative B_{s^0} Decays. <i>Physical Review Letters</i> , 2017 , 118, 021801	7.4	16
48	Measurement of the b-Quark Production Cross Section in 7 and 13 TeV pp Collisions. <i>Physical Review Letters</i> , 2017 , 118, 052002	7.4	36
47	Measurement of the phase difference between short- and long-distance amplitudes in the [Formula: see text] decay. <i>European Physical Journal C</i> , 2017 , 77, 161	4.2	25
46	Study of the $D^0 p$ amplitude in $D^0 b \rightarrow D^0 p$ decays. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	33
45	Search for massive long-lived particles decaying semileptonically in the LHCb detector. <i>European Physical Journal C</i> , 2017 , 77, 224	4.2	35
44	Observation of [Formula: see text] and [Formula: see text] decays. <i>European Physical Journal C</i> , 2017 , 77, 72	4.2	4

43	Observation of the Decay $\Xi_b^0 \rightarrow p K^0$. <i>Physical Review Letters</i> , 2017 , 118, 071801	7.4	7
42	Study of prompt D^0 meson production in pPb collisions at $(\sqrt{s_{\text{NN}}})=5$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	27
41	Study of charmonium production in π -hadron decays and first evidence for the decay. <i>European Physical Journal C</i> , 2017 , 77, 609	4.2	10
40	Improved limit on the branching fraction of the rare decay. <i>European Physical Journal C</i> , 2017 , 77, 678	4.2	7
39	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B^0 \rightarrow \pi^0 \pi^0$ and $B^0 \rightarrow \pi^0 \pi^+$. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	2
38	Search for the $B^0 \rightarrow \pi^0 \pi^0$ decay. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	1
37	Measurement of B_{s}^0 and D_{s}^0 Meson Lifetimes. <i>Physical Review Letters</i> , 2017 , 119, 101801	7.4	10
36	Observation of the Doubly Charmed Baryon Ξ_{cc}^{++} . <i>Physical Review Letters</i> , 2017 , 119, 112001	7.4	257
35	Measurement of the CP Violation Parameter A_{CP} in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 261803	7.4	11
34	Observation of $B_{\text{c}}^+ \rightarrow D^0 K^+$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 111803	7.4	13
33	Observation of Five New Narrow χ_{c}^0 States Decaying to $\chi_{\text{c}}^+ K^-$. <i>Physical Review Letters</i> , 2017 , 118, 182001	7.4	154
32	Measurement of the $B_{\text{s}}^0 \rightarrow \pi^+ \pi^-$ Branching Fraction and Effective Lifetime and Search for $B^0 \rightarrow \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 191801	7.4	106
31	Study of J/ψ Production in Jets. <i>Physical Review Letters</i> , 2017 , 118, 192001	7.4	20
30	Observation of the Decays $\Xi_b^0 \rightarrow \Xi(c_1) p K^-$ and $\Xi_b^0 \rightarrow \Xi(c_2) p K^-$. <i>Physical Review Letters</i> , 2017 , 119, 062001	7.4	22
29	Search for the Decays $B_{\text{s}}^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow \pi^+ \pi^-$. <i>Physical Review Letters</i> , 2017 , 118, 251802	7.4	40
28	Observation of the suppressed decay $D^0 \rightarrow \pi^+ \pi^-$. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
27	Test of lepton universality with $B^0 \rightarrow \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	298
26	Observation of D^0 Meson Decays to $\pi^+ \pi^- \pi^+$ and $K^+ K^- \pi^+$ Final States. <i>Physical Review Letters</i> , 2017 , 119, 181805	7.4	14

25	Search for Baryon-Number Violating Λ^0 Oscillations. <i>Physical Review Letters</i> , 2017 , 119, 181807	7.4	1
24	Measurement of the J/ψ pair production cross-section in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	25
23	New algorithms for identifying the flavour of $[B^0]$ mesons using pions and protons. <i>European Physical Journal C</i> , 2017 , 77, 238	4.2	4
22	Evidence for the two-body charmless baryonic decay ($\Lambda^0 \rightarrow p \bar{\Lambda}^0$). <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	4
21	First Observation of the Rare Purely Baryonic Decay $B^0 \rightarrow p \bar{\Lambda}^0$. <i>Physical Review Letters</i> , 2017 , 119, 232001	7.4	4
20	Resonances and CP violation in B^0 and ($\overline{B}^0 \rightarrow J/\psi K^+ K^-$) decays in the mass region above the $\psi(1020)$. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	13
19	Study of (\overline{B}^0) correlations in high energy proton-proton collisions. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	5
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17	Updated search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , 2017 , 77, 812	4.2	23
16	Search for decays of neutral beauty mesons into four muons. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
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14	Measurement of the CP Asymmetry in $B_{\Lambda^0} \rightarrow B_{\Lambda^0}$ Mixing. <i>Physical Review Letters</i> , 2016 , 117, 061803	7.4	18
13	Evidence for Exotic Hadron Contributions to $\Lambda^0 \rightarrow p \bar{\Lambda}^0$ Decays. <i>Physical Review Letters</i> , 2016 , 117, 082003	7.4	91
12	Search for Structure in the B_{Λ^0} Invariant Mass Spectrum. <i>Physical Review Letters</i> , 2016 , 117, 152003	7.4	64
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8	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> , 2016 , 2016, 1	5.4	8

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