

# Alexander Bitadze

## List of Publications by Year in descending order

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Version: 2024-02-01

192  
papers

7,548  
citations

109264

35  
h-index

62565

80  
g-index

204  
all docs

204  
docs citations

204  
times ranked

7916  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of prompt charged-particle production in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	9
2	Study of $B_c^+$ decays to charmonia and three light hadrons. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
3	Search for the radiative $\chi_{b0}$ $\rightarrow \gamma \chi_{b1}$ decay. Journal of High Energy Physics, 2022, 2022, 1.	1.6	4
4	Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.	1.4	6
5	Measurement of the c-jet mistagging efficiency in $t\bar{t}$ events using pp collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	1.4	14
6	Measurement of the W boson mass. Journal of High Energy Physics, 2022, 2022, 1.	1.6	52
7	Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
8	Analysis of Neutral $B_c^-$ Meson Decays into Two Muons. Physical Review Letters, 2022, 128, 041801.	2.9	46
9	Measurement of $\chi_{c1}(3872)$ production in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
10	Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, 1.	1.4	8
11	Search for $B_c^+$ decays into $\pi^+ \pi^0$ and $\pi^+ \pi^+ \pi^-$ final states. Physical Review Letters, 2022, 128, 082001.	2.9	33
12	Study of $Z$ Bosons Produced in Association with Charm in the Forward Region. Physical Review Letters, 2022, 128, 082001.	2.9	11
13	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with $139 \text{ fb}^{-1}$ of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	10
14	AtI Fast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	1.3	23
15	Observation of $\Lambda_b^0 \rightarrow D^+ p \bar{K}^0$ and $\Lambda_b^0 \rightarrow D^+ p \bar{K}^+$ decays. Journal of High Energy Physics, 2022, 2022, 1.	1.6	0
16	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W \rightarrow \mu \nu$ events in Run 2 data. European Physical Journal C, 2022, 82, 1.	1.4	4
17	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
18	Searches for rare $B_s^0$ and $B_0$ decays into four muons. Journal of High Energy Physics, 2022, 2022, 1.	1.6	3

#	ARTICLE	IF	CITATIONS
19	Measurement of the Nuclear Modification Factor and Prompt Charged Particle Production in $\sqrt{s} = 13$ TeV Pb-Pb collisions at the ATLAS detector. European Physical Journal C, 2022, 82, .	2.9	10
20	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
21	Study of charmonium and charmonium-like contributions in $B \rightarrow J/\psi K$ decays. Journal of High Energy Physics, 2022, 2022, 1.	1.6	3
22	Measurement of the energy asymmetry in $t\bar{t}$ production at $\sqrt{s} = 13$ TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, .	1.4	2
23	Observation of Two New Excited $B_c$ States Decaying to $B^0$ . European Physical Journal C, 2022, 82, .	2.9	10
24	Search for massive long-lived particles decaying semileptonically at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, .	1.4	2
25	Observation of the doubly charmed baryon decay $\Xi_{cc}^{++} \rightarrow \Xi_{cc}^{\prime+} \pi^+$ . Journal of High Energy Physics, 2022, 2022, .	1.6	10
26	Search for the decay $B \rightarrow \tau^+ \nu_\tau \mu^+ \mu^-$ . Journal of High Energy Physics, 2022, 2022, 1.	1.6	1
27	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and $13$ TeV. European Physical Journal C, 2022, 82, 1.	1.4	12
28	Measurement of hadronic event shapes in high- $p_T$ multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
29	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
30	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. European Physical Journal C, 2021, 81, 1.	1.4	12
31	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
32	Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	18
33	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	17
34	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb $^{-1}$ of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	19
35	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
36	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. Journal of High Energy Physics, 2021, 2021, 1.	1.6	14

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37	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	22
38	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	18
39	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1.	1.4	15
40	Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- \gamma \gamma$ final states using 139 fb <sup>-1</sup> of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	40
41	Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	18
42	Observation of the decay $\Lambda_b^0 \rightarrow \pi^+ \pi^- \pi^0$ . Journal of High Energy Physics, 2021, 2021, 1.	1.6	1
43	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $e^+e^- \rightarrow e^+e^- Z H$ and $e^+e^- \rightarrow e^+e^- W W$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	26
44	Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	23
45	Angular analysis of $B^0 \rightarrow D^+_{s^*} D^-_{s^*} \gamma$ with $D^+_{s^*} \rightarrow D^+_{s^*} \gamma$ decays. Journal of High Energy Physics, 2021, 2021, 1.	1.6	1
46	Measurements of $W+W+1$ jet production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
47	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	46
48	Search for CP violation in $D^+_{(s)} \rightarrow h^+ \pi^0$ and $D^+_{(s)} \rightarrow h^+ \eta$ decays. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5
49	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	1.4	14
50	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\tau$ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
51	Search for supersymmetry in events with four or more charged leptons in 139 fb <sup>-1</sup> of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	12
52	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
53	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
54	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

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55	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
56	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
57	Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	3
58	Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	64
59	Observation of new resonances decaying to $\mu\mu$ and $\mu\tau$ . Physical Review Letters, 2021, 127, 111801.	2.9	93
60	Search for the doubly charmed baryon $\Xi_{cc}$ . Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	10
61	Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	12
62	Observation of the Mass Difference between Neutral Charm-Meson Eigenstates. Physical Review Letters, 2021, 127, 111801.	2.9	23
63	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
64	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. Journal of High Energy Physics, 2021, 2021, 1.	1.6	14
65	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
66	Branching Fraction Measurements of the Rare $B \rightarrow \mu\mu$ and $B \rightarrow \mu\tau$ . Physical Review Letters, 2021, 127, 111801.	2.9	23
67	Observation of a $\Lambda_b^0$ production asymmetry in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
68	Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	12
69	Angular analysis of the rare decay $B_s^0 \rightarrow \mu^+ \mu^- \tau^+ \tau^-$ . Journal of High Energy Physics, 2021, 2021, 1.	1.6	28
70	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\sqrt{s} = 13$ TeV proton-proton collision data. European Physical Journal C, 2021, 81, 1.	1.4	7
71	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
72	Measurement of $J/\psi$ production cross-sections in pp collisions at $\sqrt{s} = 5$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5

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73	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
74	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
75	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
76	Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	28
77	Simultaneous determination of CKM angle $\hat{\Gamma}^3$ and charm mixing parameters. Journal of High Energy Physics, 2021, 2021, 1.	1.6	18
78	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	1.4	7
79	Search for the doubly charmed baryon $\chi_{cc}^+$ in the $\chi_{cc}^+ \rightarrow \pi^+ \pi^0 \pi^+$ final state. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
80	Updated search for $B_c^+$ decays to two charm mesons. Journal of High Energy Physics, 2021, 2021, 1.	1.6	0
81	Measurement of b-quark fragmentation properties in jets using the decay $B_{\pm} \rightarrow J/\psi K_{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
82	Measurements of inclusive and differential cross-sections of combined $\overline{t}\gamma$ and $tW^3$ production in the $e\hat{1}/4$ channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	3
83	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, 1.	1.6	17
84	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	24
85	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $\ell\ell$ decay channel at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	32
86	Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{\langle s \rangle_{NN}} = 5.02$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	28
87	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
88	Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer. Journal of High Energy Physics, 2020, 2020, 1.	1.6	8
89	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
90	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



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91	Search for the $HH \rightarrow \gamma\gamma$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	17
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. Journal of High Energy Physics, 2020, 2020, 1.	1.6	12
93	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	28
94	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
95	Measurements of top-quark pair spin correlations in the $t\bar{t}$ channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	22
96	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. Journal of High Energy Physics, 2020, 2020, 1.	1.6	12
97	Higgs boson production cross-section measurements and their EFT interpretation in the $t\bar{t}$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	41
98	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
99	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb <sup>-1</sup> of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	19
100	Search for dijet resonances in events with an isolated charged lepton using $\sqrt{s} = 13$ TeV proton-proton collision data collected by the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	7
101	Measurement of the $Z(\rightarrow \mu\mu, \tau\tau, \nu\nu)\gamma^3$ 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
102	Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at $\sqrt{s} = 8$ and 13 TeV. European Physical Journal C, 2020, 80, 1.	1.4	5
103	Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s} = 8$ TeV p+Pb collisions with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	12
104	Measurement of $J/\psi$ production in association with a $W\Delta$ boson with pp data at 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	10
105	Search for new resonances in mass distributions of jet pairs using 139 fb <sup>-1</sup> of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	68
106	Search for $t\bar{t}$ resonances in fully hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
107	Reconstruction and identification of boosted di- $\tau$ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. Journal of High Energy Physics, 2020, 2020, 1.	1.6	8
108	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	93

#	ARTICLE	IF	CITATIONS
109	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	124
110	Search for top squarks in events with a Higgs or Z boson using $139\text{ fb}^{-1}$ of pp collision data at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	4
111	Evidence for $\text{t}\bar{\text{t}}$ production in the multilepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	30
112	Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	29
113	Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV and decaying into collimated leptons or light hadrons with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	21
114	Search for a scalar partner of the top quark in the all-hadronic $\text{t}\bar{\text{t}}$ 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
115	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	1.4	12
116	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
117	Search for long-lived neutral particles in pp collisions at $\sqrt{s} = 13$ TeV that decay into displaced hadronic jets in the ATLAS calorimeter. European Physical Journal C, 2019, 79, 1.	1.4	28
118	Searches for third-generation scalar leptoquarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	30
119	Search for diboson resonances in hadronic final states in $139\text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	20
120	Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment at the LHC. European Physical Journal C, 2019, 79, 1.	1.4	4
121	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	21
122	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	24
123	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. Journal of High Energy Physics, 2019, 2019, 1.	1.6	13
124	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. European Physical Journal C, 2019, 79, 1.	1.4	3
125	Measurement of $VH$ , $H\text{to}\text{b}\bar{\text{b}}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	14
126	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



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127	A Silicon Microchannel bi-phase CO <sub>2</sub> Cooling for LHCb. , 2019, , .		0
128	Measurement of the top-quark mass in $\overline{t}t + 1$ -jet events collected with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	27
129	Measurement of fiducial and differential $W^+W^-$ production cross-sections at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	24
130	Measurement of ZZ production in the $\hat{a}, \hat{a}, \hat{1}/2\hat{1}/2$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	6
131	Measurement of $W^{\pm} \gamma$ -boson and Z-boson production cross-sections in pp collisions at $\sqrt{s}=2.76$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	8
132	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
133	Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	50
134	Measurement of $W^{\pm} \gamma$ boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	17
135	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
136	Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and lead-proton collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	36
137	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
138	Search for bottom-quark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.	1.6	14
139	Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb <sup>-1</sup> of ATLAS data. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
140	Measurement of $S^0$ and $\Lambda^0$ production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	4
141	Measurement of the Ratio of the $B^0 \rightarrow D^* \gamma$ and $B^0 \rightarrow D^* \mu^+ \mu^-$ Decays. Observation of the Annihilation Decay Mode $B^0 \rightarrow D^* \mu^+ \mu^-$ . Physical Review Letters, 2017, 118, 081801.	2.9	204
142	Structures Consistent with Exotic States from Amplitude Analysis of $B^0 \rightarrow D^* \mu^+ \mu^-$ Decays. Observation of the Annihilation Decay Mode $B^0 \rightarrow D^* \mu^+ \mu^-$ . Physical Review Letters, 2017, 118, 081801.	2.9	150
143	Physical Review Letters, 2017, 118, 081801.	2.9	25
144	First Experimental Study of Photon Polarization in Radiative $B_s^0$ Decays. Physical Review Letters, 2017, 118, 021801.	2.9	20

#	ARTICLE	IF	CITATIONS
145	Measurement of the $B_c^-$ Quark Production Cross Section in 7 and 13 TeV Collisions. Physical Review Letters, 2017, 118, 052002.	2.9	52
146	Measurement of the phase difference between short- and long-distance amplitudes in the $B_c^+ \rightarrow K^+ \mu^+ \nu$ decay. European Physical Journal C, 2017, 77, 161.	1.4	51
147	Study of the $D^0 \rightarrow p \bar{b}^0$ decays. Journal of High Energy Physics, 2017, 2017, 11.6		54
148	Search for massive long-lived particles decaying semileptonically in the LHCb detector. European Physical Journal C, 2017, 77, 224.	1.4	54
149	Observation of $B_c^+ \rightarrow \psi(3770) \psi(3770)$ and $B_c^+ \rightarrow \psi(3770) \psi(3770)$ . European Physical Journal C, 2017, 77, 72.	1.4	7
150	Observation of the Decay $B_c^+ \rightarrow p \bar{K}^0$ . Physical Review Letters, 2017, 118, 071801.	2.9	9
151	Study of prompt $D^0$ meson production in pPb collisions at $\sqrt{s_{NN}} = 5.76$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	45
152	Study of charmonium production in $b$ -hadron decays and first evidence for the decay $B_c^0 \rightarrow \phi \phi \phi$ . European Physical Journal C, 2017, 77, 609.	1.4	17
153	Improved limit on the branching fraction of the rare decay $B_c^0 \rightarrow \mu^+ \mu^- K^0$ . European Physical Journal C, 2017, 77, 678.	1.4	17
154	Search for the $B_c^0 \rightarrow \mu^+ \mu^- K^0$ decay. Journal of High Energy Physics, 2017, 2017, 1.	1.6	3
155	Measurement of the Doubly-Charmed Baryon $\Xi_{cc}^+$ . Physical Review Letters, 2017, 119, 112001.	2.9	15
156	Measurement of the CP Violation Parameter $A_{FB}^0$ in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \bar{K}^0 \bar{K}^0$ Decays. Physical Review Letters, 2017, 118, 261803.	2.9	417
157	Observation of $B_c^+ \rightarrow D^0 K^+$ Decays. Physical Review Letters, 2017, 118, 111803.	2.9	20
158	States Decaying to $B_c^+ \rightarrow D^0 K^+$ Decays. Physical Review Letters, 2017, 118, 111803.	2.9	25
159	Measurement of the $B_c^+ \rightarrow D^0 K^+$ Decays. Physical Review Letters, 2017, 118, 111803.	2.9	234
160	Branching Fraction and Effective Lifetime and Search for $B_c^+ \rightarrow D^0 K^+$ . Physical Review Letters, 2017, 118, 192001.	2.9	220
161	Study of $B_c^+ \rightarrow D^0 K^+$ Production in Jets. Physical Review Letters, 2017, 118, 192001.	2.9	39
162	Observation of the Decays $B_c^+ \rightarrow D^0 K^+$ and $B_c^+ \rightarrow D^0 K^+$ . Physical Review Letters, 2017, 119, 062001.	2.9	28

#	ARTICLE	IF	CITATIONS
163	Search for the Decays $B \rightarrow \mu^+ \mu^- \nu \nu$ . Physical Review Letters, 2017, 118, 251802.	2.9	81
164	Observation of the suppressed decay $B \rightarrow \mu^+ \mu^- \nu \nu$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	15
165	Test of lepton universality with $B \rightarrow K^* \mu^+ \mu^-$ decays. Journal of High Energy Physics, 2017, 2017, 1.	1.6	425
166	Meson Decays to $B \rightarrow \mu^+ \mu^- \nu \nu$ . Physical Review Letters, 2017, 119, 181805.	2.9	21
167	Search for Baryon-Number Violating $B \rightarrow \mu^+ \mu^- \nu \nu$ Oscillations. Physical Review Letters, 2017, 119, 181807.	2.9	6
168	Measurement of the $J/\psi$ pair production cross-section in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	34
169	New algorithms for identifying the flavour of $B^0$ mesons using pions and protons. European Physical Journal C, 2017, 77, 238.	1.4	11
170	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
171	First Observation of the Rare Purely Baryonic Decay $B \rightarrow p \bar{\Lambda}^0$ . Physical Review Letters, 2017, 119, 232001.	2.9	15
172	Resonances and CP violation in $B \rightarrow \mu^+ \mu^- K^+ K^-$ decays in the mass region above the $\psi(1020)$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	19
173	Study of $\overline{b}b$ correlations in high energy proton-proton collisions. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
174	First Observation of a Baryonic $B \rightarrow \mu^+ \mu^- \nu \nu$ Decay. Physical Review Letters, 2017, 119, 041802.	1.6	14
175	Updated search for long-lived particles decaying to jet pairs. European Physical Journal C, 2017, 77, 812.	1.4	41
176	Search for decays of neutral beauty mesons into four muons. Journal of High Energy Physics, 2017, 2017, 1.	1.6	12
177	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
178	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B \rightarrow \mu^+ \mu^- K^+$ and $B \rightarrow \mu^+ \mu^- K^0$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	3
179	Search for Higgs-like bosons decaying into long-lived exotic particles. European Physical Journal C, 2016, 76, 664.	1.4	26
180	Measurement of forward W and Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	16

