

Alexander Bitadze

List of Publications by Year in descending order

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Version: 2024-02-01

192
papers

7,548
citations

109311

35
h-index

62593

80
g-index

204
all docs

204
docs citations

204
times ranked

7916
citing authors

#	ARTICLE	IF	CITATIONS
1	The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.	1.2	1,752
2	Test of lepton universality with $B \rightarrow K^* \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2017, 2017, 1.	4.7	425
3	Observation of the Doubly Charmed Baryon Λ_{cc}^{++} . Physical Review Letters, 2017, 120, 171802.	7.8	417
4	Measurement of the Ratio of the $B \rightarrow D^* \ell^+ \ell^-$ and $B \rightarrow D \ell^+ \ell^-$ Branching Fractions and Search for Exotic States from Amplitude Analysis of $B \rightarrow D^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2018, 120, 171802.	7.8	204
5	States Decaying to $B \rightarrow D^* \ell^+ \ell^-$. Physical Review Letters, 2017, 118, 111801.	7.8	234
6	Branching Fraction and Effective Lifetime and Search for $B \rightarrow D^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2017, 118, 111801.	7.8	220
7	Consistent with Exotic States from Amplitude Analysis of $B \rightarrow D^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2017, 118, 111801.	7.8	150
8	ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	130
9	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.	3.9	124
10	Evidence for Exotic Hadron Contributions to $B \rightarrow D^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2016, 117, 082003.	7.8	110
11	and $B \rightarrow D^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2016, 117, 082003.	7.8	93
12	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	3.9	93
13	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 1.	3.9	82
14	Search for the Decays $B \rightarrow D^* \ell^+ \ell^-$ and $B \rightarrow D \ell^+ \ell^-$. Physical Review Letters, 2017, 118, 251802.	7.8	81
15	Search for Structure in the $B \rightarrow D^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2017, 118, 251802.	7.8	78
16	Branching Fraction Measurements of the Rate $B \rightarrow D^* \ell^+ \ell^-$ and $B \rightarrow D \ell^+ \ell^-$. Physical Review Letters, 2016, 117, 082003.	7.8	77
17	Measurements of the S-wave fraction in $B \rightarrow K^* \ell^+ \ell^-$ and the $B \rightarrow K^* \ell^+ \ell^-$ differential branching fractions. Journal of High Energy Physics, 2016, 2016, 1.	4.7	75
18	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. Journal of High Energy Physics, 2020, 2020, 1.	4.7	68

#	ARTICLE	IF	CITATIONS
37	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	36
38	Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	36
39	Measurement of the J/ψ pair production cross-section in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	34
40	Measurements of top-quark pair differential and double-differential cross-sections in the $t\bar{t} + \text{jets}$ channel with pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	34
41	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 Evidence for a New Structure in the $\chi_{\text{01}} \rightarrow \gamma \gamma$ http://www.w3.org/1998/Math/MathML $\int \dots$	3.9	34
42	Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	7.8	33
43	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $H \rightarrow b\bar{b}$ decay channel at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	32
44	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.	4.7	30
45	Evidence for $t\bar{t}$ production in the multilepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	30
46	Measurement of the CKM angle $\hat{\beta}$ from a combination of LHCb results. Journal of High Energy Physics, 2016, 2016, 1.	4.7	29
47	Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	29
48	Observation of the Decays $b \rightarrow 0 \hat{t}^+ \bar{t} c 1 p K^+$ and $b \rightarrow 0 \hat{t}^+ \bar{t} c 2 p K^+$. Physical Review Letters, 2017, 119, 062001.	7.8	28
49	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.	3.9	28
50	Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	28
51	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	28
52	Angular analysis of the rare decay $B_s^0 \rightarrow \hat{t}^+ \bar{t} \tau^+ \tau^-$. Journal of High Energy Physics, 2021, 2021, 1.	4.7	28
53	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.	3.9	28
54	Measurement of the top-quark mass in $t\bar{t} + 1$ -jet events collected with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	27

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55	Search for pair production of third-generation scalar leptquarks decaying into a top quark and a \bar{l}_τ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
56	Search for Higgs-like bosons decaying into long-lived exotic particles. European Physical Journal C, 2016, 76, 664.	3.9	26
57	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $e^+e^- \rightarrow b\bar{b}$ and $e^+e^- \rightarrow W^+W^-$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	26
58	Observation of the Annihilation Decay Mode $B \rightarrow D^* K$. Physical Review Letters, 2017, 118, 081801.	7.8	25
59	Observation of $B_c \rightarrow D^* K$ Decays. Physical Review Letters, 2017, 118, 111803.	7.8	25
60	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	24
61	Measurement of fiducial and differential W^+W^- production cross-sections at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	24
62	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	24
63	Measurement of the forward Z boson production cross-section in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	23
64	Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	23
65	Observation of the Mass Difference between Neutral Charm-Meson Eigenstates. Physical Review Letters, 2021, 127, 111801.	7.8	23
66	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	2.9	23
67	Measurement of the $C \rightarrow P$ Asymmetry in $B \rightarrow D^* K$. Physical Review Letters, 2017, 118, 081801.	7.8	22
68	Measurements of top-quark pair spin correlations in the e^+e^- channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	22
69	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	22
70	Observation of $D^* \rightarrow D^* K$ Meson Decays to B_c . Physical Review Letters, 2017, 119, 181805.	7.8	21
71	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, .	3.9	21
72	Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV and decaying into collimated leptons or light hadrons with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	21

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73	First Experimental Study of Photon Polarization in Radiative B_s^0 Decays. <i>Physical Review Letters</i> , 2017, 118, 021801.	7.8	20
74	Measurement of the CP Violation Parameter A_{FB}^{ℓ} in $D_0 \rightarrow K^+ K^-$ and $D_0 \rightarrow \bar{K}^+ \bar{K}^-$ Decays. <i>Physical Review Letters</i> , 2017, 118, 261803.	7.8	20
75	Search for diboson resonances in hadronic final states in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	20
76	Resonances and CP violation in B_s^0 and $B_s^0 \rightarrow J/\psi K^+ K^-$ decays in the mass region above the $\bar{\Lambda}(1020)$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	19
77	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb^{-1} of data collected with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	19
78	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. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	19
79	Measurement of forward $W^+ e^{1/2}$ production in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	18
80	Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	18
81	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	18
82	Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	18
83	Simultaneous determination of CKM angle $\hat{\Gamma}^3$ and charm mixing parameters. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	18
84	Study of charmonium production in b -hadron decays and first evidence for the decay $B_s^0 \rightarrow \psi(3770) \phi \phi$. <i>European Physical Journal C</i> , 2017, 77, 609.	3.9	17
85	Improved limit on the branching fraction of the rare decay $B_s^0 \rightarrow \mu^+ \mu^- K_S^0 \pi^+ \pi^-$. <i>European Physical Journal C</i> , 2017, 77, 678.	3.9	17
86	Measurement of $W^{\pm} \gamma$ boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	17
87	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.	4.7	17
88	Search for the $HH \rightarrow b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	17
89	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.	3.9	17
90	Measurement of forward W and Z boson production in association with jets in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	16

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91	Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow K^+ K^- \pi^+ \pi^-$ in the $K^0, 2^+$ region. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
92	Measurement of $B^0 \rightarrow D^+ D^-$ and $B^0 \rightarrow D^+ D^-$ Meson Lifetimes. Physical Review Letters, 2017, 119, 101801.	7.8	15
93	Observation of the suppressed decay $B^0 \rightarrow \pi^+ \pi^- \pi^+ \pi^-$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
94	First Observation of the Rare Purely Baryonic Decay $B^0 \rightarrow p \bar{p}$. Physical Review Letters, 2017, 119, 232001.	7.8	15
95	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1.	3.9	15
96	First Observation of a Baryonic Decay $B^0 \rightarrow p \bar{p}$. Physical Review Letters, 2017, 119, 041802.	7.8	15
97	Measurement of $VH, H \rightarrow b \bar{b}$ 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.	4.7	14
98	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.	4.7	14
99	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.	4.7	14
100	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.	3.9	14
101	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.	4.7	14
102	Search for $\overline{t}t$ 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.	4.7	14
103	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, .	3.9	14
104	Measurement of the ratio of branching fractions $\frac{\mathcal{B}(B^0 \rightarrow K^+ J^-)}{\mathcal{B}(B^0 \rightarrow K^+ J^-)}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
105	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.	4.7	13
106	Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	13
107	Measurement of $C \rightarrow P$ Violation in $B \rightarrow D$ Decays. Physical Review Letters, 2016, 117, 261801.	7.8	12
108	Search for decays of neutral beauty mesons into four muons. Journal of High Energy Physics, 2017, 2017, 1.	4.7	12

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109	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.	4.7	12
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. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
111	Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s} = 8.16$ TeV p+Pb collisions with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	12
112	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.	3.9	12
113	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. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
114	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.	3.9	12
115	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.	4.7	12
116	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	3.9	12
117	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.	3.9	12
118	New algorithms for identifying the flavour of B^0 mesons using pions and protons. European Physical Journal C, 2017, 77, 238.	3.9	11
119	Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
120	Study of Z Bosons Produced in Association with Charm in the Forward Region. Physical Review Letters, 2022, 128, 082001.	7.8	11
121	Evidence for the two-body charmless baryonic decay $B \rightarrow p \bar{\Lambda}^0$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
122	Study of $\overline{b}b$ correlations in high energy proton-proton collisions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
123	Determination of the parton distribution functions of the proton from ATLAS measurements of differential W^{\pm} and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
124	Search for the doubly charmed baryon $\hat{\Omega}^{++}$. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	10
125	Measurement of J/ψ production in association with a W^{\pm} boson with pp data at 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	10
126	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10

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127	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb^{-1} of pp collision data at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
128	Measurement of the Nuclear Modification Factor and Prompt Charged Particle Production in $\sqrt{s} = 13 \text{ TeV}$ pp Collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2021, 2021, 1.	7.8	10
129	Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
130	Observation of Two New Excited States Decaying to $b\bar{c}$. Journal of High Energy Physics, 2022, 2022, 1.	7.8	10
131	Observation of the doubly charmed baryon decay $\chi_{cc}^{++} \rightarrow \chi_{cc}^{\prime+} \pi^+$. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
132	Observation of the Decay $\Lambda_b^0 \rightarrow p \bar{K}^0 K^0$. Physical Review Letters, 2017, 118, 071801.	7.8	9
133	Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	9
134	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.	3.9	9
135	Measurement of the $Z(\gamma^* \rightarrow \gamma) \rightarrow \gamma \gamma$ production cross-section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	9
136	Search for dark matter produced in association with a single top quark in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	9
137	Measurement of prompt charged-particle production in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2022, 2022, 1.	4.7	9
138	Measurement of $W^{\pm} \gamma$ -boson and Z-boson production cross-sections in pp collisions at $\sqrt{s} = 2.76 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	8
139	Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8 \text{ TeV}$ pp collisions using the ATLAS ALFA spectrometer. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
140	Measurements of $W+W^{\pm} + \text{1 jet}$ production cross-sections in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
141	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
142	Reconstruction and identification of boosted di-photon systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
143	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. European Physical Journal C, 2022, 82, 1.	3.9	8
144	Search for the doubly charmed baryon χ_{cc}^{++} in the $\chi_{cc}^{\prime+} \pi^+$ final state. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8

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163	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.	3.9	5
164	Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , 2019, 79, .	3.9	4
165	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.	4.7	4
166	Measurement of hadronic event shapes in high-pT multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	4
167	Search for top squarks in events with a Higgs or Z boson using 139 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	4
168	Observation of a Λ_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.	4.7	4
169	Measurement of K_S^0 and Λ^0 production in tr dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	4
170	Search for the radiative χ_{b0} decay. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	4
171	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \mu^{\pm} \nu_{\mu} \rightarrow \mu^{\pm} \pi^{\pm} \nu_{\mu} \nu_{\tau}$ events in Run 2 data. <i>European Physical Journal C</i> , 2022, 82, 1.	3.9	4
172	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.	4.7	4
173	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.	4.7	4
174	Search for the $B_s^0 \rightarrow \mu^+ \mu^- \tau^+ \tau^-$ decay. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	3
175	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B \rightarrow \mu^+ \mu^- K^+$ and $B \rightarrow \mu^+ \mu^- K^0$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	3
176	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.	3.9	3
177	Measurements of inclusive and differential cross-sections of combined $t\bar{t}\gamma$ and $t\bar{t}W^{\pm}$ production in the e^+e^- channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	3
178	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.	4.7	3
179	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.	3.9	3
180	Searches for rare B_s^0 and B^0 decays into four muons. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	3

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181	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.	4.7	3
182	Study of charmonium and charmonium-like contributions in $B \rightarrow J/\psi K$ decays. Journal of High Energy Physics, 2022, 2022, 1.	4.7	3
183	Measurements of the S-wave fraction in $B \rightarrow K + \bar{c} + c$ decays and the $B \rightarrow K + \bar{c} + c$ differential branching fraction. , 2016, 2016, 1.		2
184	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.	4.7	2
185	Measurement of the energy asymmetry in $t\bar{t}$ production at $\sqrt{s} = 13, 14$ TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, .	3.9	2
186	Search for massive long-lived particles decaying semileptonically at $\sqrt{s} = 13, 14$ TeV. European Physical Journal C, 2022, 82, .	3.9	2
187	Observation of the decay $\Lambda_b^0 \rightarrow \bar{c} + c + \pi^0$. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1
188	Angular analysis of $B^0 \rightarrow D^{*+} D_s^{*-} + c.c.$ with $D_s^{*+} \rightarrow D_s^+ \gamma$ decays. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1
189	Search for the decay $B \rightarrow \bar{c} + c + \pi^0$. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
190	A Silicon Microchannel bi-phase CO2 Cooling for LHCb. , 2019, , .		0
191	Observation of $\Lambda_b^0 \rightarrow \bar{c} + D + \pi^0 + \pi^0$ and $\Lambda_b^0 \rightarrow \bar{c} + D^* + \pi^0 + \pi^0$ decays. Journal of High Energy Physics, 2022, 2022, 1.	4.7	0
192	Updated search for B_c^+ decays to two charm mesons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	0