

Arnaud Duperrin

List of Publications by Year in descending order

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164
papers

5,878
citations

76322

40
h-index

95259

68
g-index

170
all docs

170
docs citations

170
times ranked

7412
citing authors

#	ARTICLE	IF	CITATIONS
1	The upgraded D \bar{A} detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 565, 463-537.	1.6	549
2	Observation of Single Top-Quark Production. Physical Review Letters, 2009, 103, 092001.	7.8	199
3	Forward-backward asymmetry in top quark-antiquark production. Physical Review D, 2011, 84, .	4.7	188
4	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	136
5	Evidence for a $B \rightarrow B_s \mu^+ \mu^-$ transition. Physical Review Letters, 2016, 117, 022003.	4.7	132
6	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 199.	3.9	132
7	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
8	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb $^{-1}$ of pp collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	116
9	Search for heavy resonances decaying into WW in the $e^+e^- \mu^+ \mu^-$ final state in pp collisions at $\sqrt{s} = 13$ TeV, ext $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.	3.9	108
10	Measurement of the shape of the boson rapidity distribution for $p\bar{p} \rightarrow Z \rightarrow \tau^+ \tau^-$. Physical Review D, 2007, 76, .	4.7	101
11	Search for heavy ZZ resonances in the $e^+e^- \mu^+ \mu^-$ final states using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	3.9	101
12	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	3.9	93
13	b-Jet identification in the D0 experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 490-517.	1.6	92
14	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
15	Search for $X \rightarrow B \mu^+ \mu^-$. Physical Review D, 2014, 89, .	4.7	81
16	Evidence for production of single top quarks. Physical Review D, 2008, 78, .	4.7	79
17	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	77
18	Combination of measurements of the top-quark pair production cross section from the Tevatron Collider. Physical Review D, 2014, 89, .	4.7	69

#	ARTICLE	IF	CITATIONS
19	Measurement of the forward-backward asymmetry in top quark-antiquark production in proton-proton collisions using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	64
20	Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	64
21	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.	3.9	64
22	Prompt and non-prompt J/ψ and $\psi(2S)$ suppression at high transverse momentum in $5.02 < \mathit{TeV} < 5.02$ TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	3.9	61
23	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58.	3.9	61
24	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 18.	3.9	60
25	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ and 5.0 TeV. European Physical Journal C, 2018, 78, 142.	3.9	59
26	Observation and studies of double top quark production at the Tevatron. Physical Review D, 2014, 90, .	4.7	58
27	Improved determination of the width of the top quark. Physical Review D, 2012, 85, .	4.7	56
28	Observation of s-channel Production of Single Top Quarks at the Tevatron. Physical Review Letters, 2014, 112, 231803.	7.8	56
29	Search for pair production of Higgs bosons in the $b\bar{b}$ final state using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	55
30	Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{NN}}=5.02$ TeV Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 997.	3.9	51
31	Measurement of Inclusive Differential Cross Sections for $t(1S)$ Production in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV. Physical Review Letters, 2005, 94, 232001.	7.8	49
32	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.	4.7	49
33	Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	46
34	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. European Physical Journal C, 2019, 79, 1.	3.9	46
35	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.	4.7	46
36	Search for Production of Single Top Quarks Via $t\bar{c}$ and $t\bar{u}$ Flavor-Changing-Neutral-Current Couplings. Physical Review Letters, 2007, 99, 191802.	7.8	45

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37	TeVatron Combination of Single-Top-Quark Cross Sections and Determination of the Magnitude of the Cabibbo-Kobayashi-Maskawa Matrix Element $\sin^2\theta_{13}$ in the $W \rightarrow b\bar{c}$ decay channel. Precision Measurement of the Top Quark Mass in $t\bar{t}$ Events. Physical Review Letters, 2010, 105, 23, 231801.	7.8	45
38	Measurement of the Top Quark Mass in $t\bar{t}$ Events. Physical Review Letters, 2010, 105, 23, 231801.	7.8	43
39	Final States. Physical Review Letters, 2010, 105, 23, 231801.	4.1	42
40	Performance of top-quark and W -boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1.	3.9	42
41	Measurement of the top quark mass in $t\bar{t}$ events using W -tagging. Physical Review Letters, 2010, 105, 23, 231801.	7.8	41
42	Higgs boson production cross-section measurements and their EFT interpretation in the W decay channel at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	41
43	Measurement of the top quark mass in $t\bar{t}$ events using W -tagging. Physical Review Letters, 2016, 116, 23, 231801.	7.8	40
44	Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b -jets in 36 fb^{-1} of $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	40
45	Measurements of b -jet tagging efficiency with the ATLAS detector using W events at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	40
46	Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^-Z^+Z^-$ and $e^+e^- \rightarrow e^+e^-u\bar{u}$ final states using 139 fb^{-1} of proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	40
47	Measurement of the electron charge asymmetry in W decays. Physical Review Letters, 2013, 110, 011801.	4.7	39
48	Measurement of the electron charge asymmetry in W decays. Physical Review Letters, 2013, 110, 011801.	4.7	39
49	Measurement of the Semileptonic Charge Asymmetry using $B_s \rightarrow D_s \ell \bar{\nu}_\ell$ Decays. Physical Review Letters, 2013, 110, 011801.	7.8	38
50	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.	3.9	38
51	Electron and photon energy calibration with the ATLAS detector using 2015–2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017.	1.2	37
52	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.	4.7	37
53	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
54	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

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55	Search for s-channel single top quark production in $\gamma\gamma$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.1	35
56	Measurement of the asymmetry in angular distributions of leptons produced in dilepton final states in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	4.7	34
57	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
58	Measurements of top-quark pair differential and double-differential cross-sections in the $l\bar{l}+jets$ channel with pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	34
59	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. Journal of High Energy Physics, 2018, 2018, 1.	3.9	34
60	Measurement of the muon charge asymmetry in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	4.7	33
61	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $l\bar{l}+jets$ decay channel at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	32
62	Measurements of single top quark production cross sections and $ V_{tb} $ in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. Physical Review D, 2011, 84, .	4.7	31
63	Search for W W/Z resonance production in $\gamma\gamma$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	31
64	Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	30
65	Evidence for $t\bar{t}$ production in the dilepton 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
66	Searches for heavy ZZ and ZW resonances in the $\gamma\gamma$, $\gamma q\bar{q}$ and $q\bar{q}$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
67	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
68	Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$ collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2017, 77, 804.	3.9	28
69	Measurement of the Drell-Yan triple-differential cross section in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	28
70	Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	28
71	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a 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
72	Study of the $t\bar{t}$ production in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	4.7	26

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73	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $ell\bar{b}b$ and $ell\bar{W}W$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	26
74	Muon reconstruction and identification with the Run II DO detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 737, 281-294.	1.6	25
75	Jet energy scale determination in the DO experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 442-475.	1.6	24
76	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
77	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
78	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
79	Combinatorics of searches for anomalous top quark couplings with $\sqrt{s}=13$ TeV. Evidence for $Z \rightarrow \mu\mu$ production cross-sections at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	4.1	23
80	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
81	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
82	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	2.9	23
83	Measurements of top-quark pair spin correlations in the emu channel at $\sqrt{s}=13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	22
84	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
85	Study of double parton interactions in $pp \rightarrow \mu\mu + jets$ collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 98.	4.7	21
86	Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s}=13$ TeV with ATLAS. European Physical Journal C, 2018, 78, 186.	4.7	20
87	Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s}=13$ TeV with ATLAS. European Physical Journal C, 2018, 78, 186.	3.9	20
88	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. Journal of High Energy Physics, 2020, 2020, 1.	4.7	19
89	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.	4.7	19
90	A search for $\hat{1} \rightarrow c$ production in photon-photon fusion at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 441, 479-490.	4.1	18

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91	Improved b quark jet identification at the DO experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 290-303.	1.6	18
92	Simultaneous measurement of forward-backward asymmetry and top polarization in dilepton final states from $t\bar{t}$ production at the Tevatron. Physical Review D, 2015, 92, .	4.7	18
93	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.	4.7	18
94	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.	3.9	18
95	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.	4.7	18
96	Direct top-quark decay width measurement in the $t\bar{t} \rightarrow \ell^+ \ell^-$ lepton+jets channel at $\sqrt{s} = 8$ TeV with the ATLAS experiment. European Physical Journal C, 2018, 78, 129.	3.9	17
97	Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
98	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, 1.	4.7	17
99	Search for the $HH \rightarrow b\bar{b}$ 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.	4.7	17
100	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.	3.9	17
101	Precision measurement of the top-quark mass in $t\bar{t} \rightarrow \ell^+ \ell^- + jets$ final states. Physical Review D, 2015, 91, .	4.7	16
102	Measurement of differential cross sections and W^+W^- cross-section ratios for W boson production in association with jets at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
103	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
104	Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	15
105	Measurement of VH 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
106	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
107	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
108	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

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109	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
110	Measurement of the c-jet mistagging efficiency in $\sqrt{s} = 13$ TeV events using pp collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	14
111	Combined Forward-Backward Asymmetry Measurements in Top-Antitop Quark Production at the Tevatron. Physical Review Letters, 2018, 120, 042001.	7.8	13
112	Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 102.	3.9	13
113	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
114	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
115	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
116	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
117	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
118	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
119	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	3.9	12
120	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
121	Measurement of the inclusive $t\bar{t}$ production cross section in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	4.7	11
122	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
123	Search for Violation of Lorentz Invariance in $B_s \rightarrow 0$ Oscillations. Physical Review Letters, 2015, 115, 161601.	7.8	10
124	Precise measurement of the top quark mass in dilepton decays using optimized neutrino weighting. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 18-26.	4.1	10
125	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
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

#	ARTICLE	IF	CITATIONS
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 $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
128	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
129	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
130	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.	3.9	9
131	Measurement of the spin correlation between top and anti-top quarks produced in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. European Physical Journal C, 2021, 81, 1.	4.1	8
132	Measurement of the top quark mass using the matrix element technique in dilepton final states. Physical Review D, 2016, 94, .	4.7	8
133	Properties of Zc [±] (3900) produced in pp collisions. Physical Review D, 2019, 100, .	4.7	8
134	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.	4.7	8
135	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
136	Reconstruction and identification of boosted di- τ 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
137	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
138	Measurement of the Flavor-Specific Decay Channel $B \rightarrow D^* \tau^+ \tau^-$ in the Flavor-Specific Decay Channel $B \rightarrow D^* \tau^+ \tau^-$. Physical Review Letters, 2015, 114, 062001.	7.8	7
139	Measurement of the $C \rightarrow P$ -odd decay channel $C \rightarrow P$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, .	4.7	7
140	Measurement of $\sigma_{\text{au}} \Gamma$, polarisation in $Z/\gamma \rightarrow \text{au au}$. European Physical Journal C, 2018, 78, 163.	3.9	7
141	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.	3.9	7
142	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	3.9	7
143	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, .	3.9	7
144	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.	4.7	6

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145	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.	4.7	6
146	Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.	3.9	6
147	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.	4.7	5
148	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.	3.9	5
149	The ATLAS inner detector trigger performance in pp collisions at $\sqrt{s} = 13$ TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1.	3.9	5
150	Measurement of hadronic event shapes in high-pT multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
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155	Measurement of the forward-backward asymmetry in b and \bar{b} baryon production in pp collisions at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2015, 91, .	4.7	3
156	Measurement of top quark polarization in $t\bar{t}$ lepton+jets final states. Physical Review D, 2017, 95, .	4.7	3
157	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.	3.9	3
158	Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow \tau^+ J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
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160	Measurement of the direct C violating charge asymmetry in $B \rightarrow \tau^+ \nu_{\tau} K^{\pm}$ decays. Physical Review D, 2017, 95, .	4.7	2
161	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
162	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, .	3.9	2

#	ARTICLE	IF	CITATIONS
163	Measurement of the forward-backward asymmetries in the production of $\bar{\psi}$ and ψ baryons in pp collisions. Physical Review D, 2016, 93, .	4.7	1
164	Combination of D_0 measurements of the top quark mass. Physical Review D, 2017, 95, .	4.7	1