

Syed Haider Abidi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6461583/publications.pdf>

Version: 2024-02-01

291
papers

9,553
citations

38660

50
h-index

71532

76
g-index

309
all docs

309
docs citations

309
times ranked

8386
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the W-boson mass in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 110.	1.4	218
2	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 903.	1.4	181
3	Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 173-191.	1.5	169
4	Search for new high-mass phenomena in the dilepton final state using 36 fb ⁻¹ of proton-proton collision data at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	168
5	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	1.4	145
6	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s}=13$ TeV with the ATLAS Detector. Physical Review Letters, 2018, 121, 211801.	2.9	145
7	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 173-191.	1.5	138
8	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.	1.6	136
9	Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801.	2.9	133
10	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 199.	1.4	132
11	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
12	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995.	1.4	125
13	Electron and photon performance measurements with the ATLAS detector using the 2015-2017 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P12006-P12006.	0.5	124
14	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
15	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.	1.6	116
16	Search for heavy resonances decaying into WW in the $e\mu u e \frac{1}{2} \frac{1}{2}$ final state in pp collisions at $\sqrt{s}=13$ TeV, $s = 13$ TeV, ext TeV TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.	1.4	108
17	Search for heavy ZZ resonances in the $e\ell^+ \ell^- e \ell^+ \ell^-$ final states with proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	1.4	101
18	Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using $\sqrt{s}=13$ TeV Collision Data. Physical Review Letters, 2020, 125, 051801.	2.9	97

#	ARTICLE	IF	CITATIONS
19	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	93
20	Measurement of multi-particle azimuthal correlations in pp, pA+APb and low-multiplicity PbA+APb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	1.4	86
21	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
22	Search for dark matter at $\sqrt{s}=13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. European Physical Journal C, 2017, 77, 393.	1.4	80
23	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 565.	1.4	79
24	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.	1.4	77
25	Angular analysis of $B_0 \rightarrow K^* \mu^+ \mu^-$ decays in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	76
26	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	1.4	75
27	Measurement of quarkonium production in proton-lead and proton-proton collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.	1.4	75
28	Observation of Light-by-Light Scattering in Ultraperipheral Pb-Pb Collisions with the ATLAS Detector. Physical Review Letters, 2019, 123, 052001.	2.9	75
29	Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. Physical Review Letters, 2017, 119, 191803.	2.9	74
30	Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b}$ Decay Channel in $p\bar{p}$ Collisions with the ATLAS Detector. Physical Review Letters, 2018, 121, 191801.	2.9	70
31	ATLAS data quality operations and performance for 2015-2018 data-taking. Journal of Instrumentation, 2020, 15, P04003-P04003.	0.5	68
32	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.	1.6	68
33	Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	67
34	Dijet Resonance Search with Weak Supervision Using $p\bar{p} \rightarrow \text{jet} \text{jet} \gamma$ Collisions in the ATLAS Detector. Physical Review Letters, 2020, 125, 131801.	2.9	67
35	A search for pair-produced resonances in four-jet final states at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 250.	1.4	66
36	Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	64

#	ARTICLE	IF	CITATIONS
37	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
38	Measurement of the Higgs boson mass in the $H \rightarrow \tau\tau$ and $H \rightarrow \tau\tau$ channels with $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 345-366.	1.4	61
39	Performance of the ATLAS muon triggers in Run 2. Journal of Instrumentation, 2020, 15, P09015-P09015.	0.5	62
40	Prompt and non-prompt J/ψ and $\psi(2S)$ suppression at high transverse momentum in 5.02 TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	1.4	61
41	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58.	1.4	61
42	A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 135980.	1.5	61
43	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.	1.4	60
44	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ and 5.0 . European Physical Journal C, 2018, 78, 142.	1.4	59
45	Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$, in the $\tau^{\pm} + \text{jets}$ and $\tau^{\pm} + \text{lepton}$ final states with 36 fb^{-1} of pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	1.6	59
46	Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	56
47	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.	1.6	55
48	Search for Higgs boson pair production in the $\gamma\gamma WW$ channel using pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 1007.	1.4	53
49	Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. Physical Review Letters, 2018, 120, 211802.	2.9	53
50	Observation of Electroweak Production of a Same-Sign W^+W^+ Boson Pair in Association with Two Jets in pp Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 120, 211802.	2.9	53
51	Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 154.	1.4	52
52	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. European Physical Journal C, 2017, 77, 379.	1.4	51
53	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.	1.4	51
54	Search for direct top squark pair production in final states with two leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898.	1.4	50

#	ARTICLE	IF	CITATIONS
55	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb ⁻¹ of pp collisions at. European Physical Journal C, 2018, 78, 401.	2.9	50
56	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.	1.4	50
57	Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$. Using $b\bar{b}$ final states with the ATLAS detector. Physical Review Letters, 2017, 119, 181804.	1.6	50
58	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.	2.9	49
59	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb ⁻¹ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	49
60	Measurement of the top quark mass in the $t\bar{t} \rightarrow t\bar{t} \gamma$. European Physical Journal C, 2019, 79, 1.	1.4	47
61	Measurement of the Higgs boson coupling properties in the $H \rightarrow Z\gamma^* \rightarrow 4\mu$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	46
62	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.	1.4	46
63	Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow \tau\tau$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 508-529.	1.5	46
64	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
65	Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	45
66	Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \rightarrow 4\mu$ and $ZZ \rightarrow 2\mu 2\gamma$ final states with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 223-244.	1.5	43
67	Combined measurement of differential and total cross sections in the $H \rightarrow \tau\tau$ and the $H \rightarrow Z\gamma^* \rightarrow 4\mu$ decay channels at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 114-133.	1.6	42
68	Performance of top-quark and W -boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1.	1.4	42
69	Observation of Centrality-Dependent Acoplanarity for Muon Pairs Produced via Two-Photon Scattering in $Pb-Pb$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physical Review Letters, 2019, 121, 081801.	2.9	41
70	Collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	2.9	41
71	Measurement of WZ production cross sections and gauge boson polarisation in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	41

#	ARTICLE	IF	CITATIONS
73	Higgs boson production cross-section measurements and their EFT interpretation in the 4ℓ decay channel at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	41
74	Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36fb^{-1} of $\sqrt{s}=13\text{TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
75	Measurements of b-jet tagging efficiency with the ATLAS detector using $t\bar{t}$ events at $\sqrt{s}=13\text{TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
76	Properties of Higgs Boson Interactions with Top Quarks in the $t\bar{t}$ final state using 13TeV pp collisions with the ATLAS detector. Physical Review Letters, 2018, 120, 202007.	2.9	40
77	Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow \nu\bar{\nu} Z Z$ final states using 139fb^{-1} of proton-proton collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	40
78	Search for a Structure in the $B\rightarrow s\gamma$ Invariant Mass Spectrum with the ATLAS Experiment. Physical Review Letters, 2018, 120, 202007.	1.6	39
79	Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	38
80	Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $s=13\text{TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	38
81	Search for Higgs boson pair production in the $\gamma\gamma$ final state with 13TeV pp collision data collected by the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	1.6	38
82	Observation of electroweak W^+Z boson pair production in association with two jets in pp collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 469-492.	1.5	38
83	Measurements of WH and ZH production in the $H\rightarrow b\bar{b}$ decay channel in pp collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	38
84	Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	37
85	Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017.	0.5	37
86	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139fb^{-1} of $\sqrt{s}=13\text{TeV}$ pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	37
87	Search for the Dimuon Decay of the Higgs Boson in pp Collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS Detector. Physical Review Letters, 2017, 119, 051802.	2.9	36
88	Search for pair production of heavy vector-like quarks decaying to high-p T W bosons and b quarks in the lepton-plus-jets final state in pp collisions at $s=13\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	36
89	Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	36
90	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s}=13\text{TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	36

#	ARTICLE	IF	CITATIONS
91	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.	1.4	36
92	Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector. European Physical Journal C, 2017, 77, 580.	1.4	35
93	Measurements of top-quark pair differential and double-differential cross-sections in the $t\bar{t}+jets$ channel with pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	34
94	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
95	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. Physical Review Letters, 2018, 121, 092001.	2.9	33
96	Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	33
97	Search for invisible Higgs boson decays in vector boson fusion at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics, 2019, 793, 499-519.	1.6	33
98	Determination of the strong coupling constant α_s from transverse energy correlations in multijet events at $\sqrt{s} = 8-13$ TeV. European Physical Journal C, 2017, 77, 872.	1.4	32
99	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.	1.4	32
100	Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
101	Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb ⁻¹ of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
102	Search for W^+W^-/ZZ resonance production in $t\bar{t}$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	31
103	Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	31
104	Searches for the $Z\gamma$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	30
105	Study of $WW\gamma$ and $WZ\gamma$ production in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 646.	1.4	30
106	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.	1.6	30
107	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
108	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.	1.4	30

#	ARTICLE	IF	CITATIONS
109	Study of the material of the ATLAS inner detector for Run 2 of the LHC. Journal of Instrumentation, 2017, 12, P12009-P12009.	0.5	29
110	Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	29
111	Searches for heavy ZZ and ZW resonances in the $\gamma\gamma$, $q\bar{q}$ and γZ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	29
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	Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$. European Physical Journal C, 2017, 77, 804.	1.4	28
114	Measurement of $WW/WZ \rightarrow \ell u q^{\prime}$ $WW / WZ \rightarrow \gamma\gamma, \gamma Z$ production with the hadronically decaying boson reconstructed as one or two jets in pp collisions at $\sqrt{s}=8$ TeV with ATLAS, and constraints on anomalous gauge couplings. European Physical Journal C, 2017, 77, 563.	1.4	28
115	Measurement of the Drell-Yan triple-differential cross section in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	28
116	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow a a \rightarrow 4b$ channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	28
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	In situ calibration of large-radius jet energy and mass in $\sqrt{s}=13$ TeV proton-proton collisions with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	28
119	Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	28
120	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
121	Measurement of the Lund Jet Plane Using Charged Particles in $\sqrt{s}=13$ TeV Proton-Proton Collisions with the ATLAS Detector. Physical Review Letters, 2020, 124, 222002.	2.9	28
122	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
123	Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 625.	1.4	27
124	Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	27
125	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.	1.6	27
126	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.	1.6	27

#	ARTICLE	IF	CITATIONS
127	Measurements of electroweak Wj production and constraints on anomalous gauge couplings with the ATLAS detector. European Physical Journal C, 2017, 77, 474.	1.4	26
128	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $ell b$ and $ell W$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	26
129	Operation and performance of the ATLAS Tile Calorimeter in Run 1. European Physical Journal C, 2018, 78, 987.	1.4	25
130	A strategy for a general search for new phenomena using data-derived signal regions and its application within the ATLAS experiment. European Physical Journal C, 2019, 79, 1.	1.4	25
131	Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector. Physical Review Letters, 2020, 124, 031802.	2.9	25
132	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
133	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
134	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
135	Measurement of the inclusive jet cross-sections in proton-proton collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
136	Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp Collisions in ATLAS. Physical Review Letters, 2019, 123, 042001.	2.9	23
137	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
138	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	1.3	23
139	Search for pair production of heavy vector-like quarks decaying into high- p_T W bosons and top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	22
140	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.	1.4	22
141	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
142	Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS. Physical Review Letters, 2020, 125, 261801.	2.9	22
143	Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	21
144	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at 13 TeV. European Physical Journal C, 2019, 79, .	1.4	21

#	ARTICLE	IF	CITATIONS
145	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
146	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.	1.4	20
147	Search for diboson resonances in hadronic final states in 139 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
148	Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector. Physical Review Letters, 2020, 125, 221802.	2.9	20
149	Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. European Physical Journal C, 2017, 77, 765.	1.4	19
150	Measurement of the production cross-section of a single top quark in association with a Z boson in proton-proton collisions at 13 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 557-577.	1.5	19
151	Prompt and non-prompt J/ψ elliptic flow in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 784.	1.4	19
152	Search for top-quark decays $t \rightarrow Hq$ with 36 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	19
153	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.	1.6	19
154	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
155	Search for top quark decays $t \rightarrow qH$, with $H \rightarrow \tau\tau$, in $s = 13$ TeV pp collisions using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	18
156	Measurements of inclusive and differential fiducial cross-sections of $t\bar{t}$ production with additional heavy-flavour jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	18
157	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
158	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
159	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
160	Search for supersymmetry in events with b-tagged jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	17
161	Direct top-quark decay width measurement in the $t \rightarrow \tau \bar{\nu}_\tau$ lepton+jets channel at $\sqrt{s} = 8$ TeV with the ATLAS experiment. European Physical Journal C, 2018, 78, 129.	1.4	17
162	Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17

#	ARTICLE	IF	CITATIONS
163	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.	1.6	17
164	Measurements of W and Z boson production in pp collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	17
165	Measurement of W^{\pm} 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
166	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
167	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.	1.6	17
168	Measurement of Azimuthal Anisotropy of Muons from Charm and Bottom Hadrons in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. Physical Review Letters, 2020, 124, 082301.	2.9	17
169	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
170	Longitudinal Flow Decorrelations in Xe+Xe Collisions at $\sqrt{s}=2.76$ TeV with the ATLAS Detector. Physical Review Letters, 2021, 127, 051802.	2.9	17
171	Search for Displaced Lepton Pairs in pp Collisions with the ATLAS Detector. Physical Review Letters, 2021, 127, 051802.	2.9	17
172	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	16
173	Measurement of colour flow using jet-pull observables in $t\bar{t}$ events with the ATLAS experiment at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 847.	1.4	16
174	Probing the Quantum Interference between Singly and Doubly Resonant Top-Quark Production in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. Physical Review Letters, 2018, 121, 152002.	2.9	16
175	Search for exclusive Higgs and Z boson decays to $\tau^+\tau^-$ and $\tau^+\tau^-$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	16
176	Measurement of differential cross sections and W^+/\bar{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.	1.6	16
177	Measurement of the cross-section for electroweak production of dijets in association with a Z boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 206-220.	1.6	15
178	Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	15
179	Search for scalar resonances decaying into $\tau^+\tau^-$ in events with and without b-tagged jets produced in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	15
180	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

#	ARTICLE	IF	CITATIONS
181	Test of the universality of \hat{I}_μ , and $\hat{I}_\mu/4$ lepton couplings in W-boson decays with the ATLAS detector. Nature Physics, 2021, 17, 813-818.	6.5	15
182	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.	1.4	15
183	Measurement of charged-particle distributions sensitive to the underlying event in $\sqrt{s} = 13$ TeV proton-proton collisions with the ATLAS detector at the LHC. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
184	Studies of $Z\bar{\nu}\nu$ production in association with a high-mass dijet system in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
185	Measurement of VH , $\text{H} \rightarrow \text{b}\bar{\text{b}}$ 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
186	Measurements of inclusive and differential fiducial cross-sections of $\text{t}\bar{\text{t}}\gamma$ production in leptonic final states at $\sqrt{s} = 13$ TeV in ATLAS. European Physical Journal C, 2019, 79, 1.	1.4	14
187	Search for bottom-squark 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
188	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
189	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
190	Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at $\sqrt{s} = 13$ TeV Using the ATLAS Detector. Physical Review Letters, 2021, 127, 141801.	2.9	14
191	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
192	Search for Z' 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
193	Measurement of the c-jet mistagging efficiency in $\text{t}\bar{\text{t}}$ events using pp collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	1.4	14
194	Measurements of top-quark pair to Z-boson cross-section ratios at $\sqrt{s} = 13, 8, 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	13
195	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.	1.4	13
196	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
197	Measurement of the CP-violating phase ϕ_{cb} in $B_{\text{c}} \rightarrow J/\psi \text{K}$ decays in ATLAS at 13 TeV. European Physical Journal C, 2021, 81, .	1.4	13
198	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

#	ARTICLE	IF	CITATIONS
199	Search for long-lived charginos based on a disappearing-track signature using 136 fb ⁻¹ of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, .	1.4	13
200	Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $s = 13 \sqrt{s}=13$ TeV proton-proton collision data. Journal of High Energy Physics, 2017, 2017, 1.	1.6	12
201	Measurement of the four-lepton invariant mass spectrum in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	12
202	Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at $s=13$ TeV. Physical Review Letters, 2019, 29, 122, 151801.		12
203	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
204	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
205	Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s_{\text{NN}}}=8.16$ TeV p+Pb collisions with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	12
206	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
207	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.	1.6	12
208	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
209	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
210	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	1.4	12
211	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
212	Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
213	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
214	Two-particle azimuthal correlations in photonuclear ultraperipheral collisions at 5.02 TeV with ATLAS. Physical Review C, 2021, 104, .		
215	Exclusive dimuon production in ultraperipheral collisions at $\sqrt{s}=13$ TeV with ATLAS. Physical Review C, 2021, 104, .	1.1	11
216	Measurement of the $Z \rightarrow \gamma \rightarrow u \bar{u}$ production cross section in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings. Journal of High Energy Physics, 2018, 2018, 1.	1.6	10

#	ARTICLE	IF	CITATIONS
217	Measurement of the inclusive and fiducial $t\bar{t}$ production cross-sections in the. European Physical Journal C, 2018, 78, 487.	1.4	10
218	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W\bar{A}\pm$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	1.6	10
219	Measurement of J/ψ production in association with a $W\bar{A}\pm$ boson with pp data at 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	10
220	Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties. Journal of Instrumentation, 2017, 12, P05002-P05002.	0.5	10
221	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
222	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.	1.6	10
223	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
224	Measurement of the $t\bar{t}\gamma$ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	9
225	Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	9
226	Combinations of single-top-quark production cross-section measurements and $ f_{LVVtb} $ determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experiments. Journal of High Energy Physics, 2019, 2019, 1.	1.6	9
227	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
228	Measurement of the $Z(\tau^+\tau^-)$ 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
229	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
230	Evidence for electroweak production of two jets in association with a $Z\tau^+\tau^-$ pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 2021, 1.	1.5	9
231	Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	8
232	Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	8
233	Analysis of the Wtb vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the t-channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	8
234	Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	8

#	ARTICLE	IF	CITATIONS
235	Measurement of W^{\pm} -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
236	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
237	Measurements of $W+W^{\pm} + \geq 1$ 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
238	Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. Nature Physics, 2021, 17, 819-825.	6.5	8
239	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
240	Reconstruction and identification of boosted $d\bar{t}$ 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
241	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
242	Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters. Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 847, 157066.	1.5	8
243	Search for Lepton-Flavor Violation in Z-Boson Decays with $\sqrt{s}=13$ TeV with the ATLAS Detector. Physical Review Letters, 2021, 127, 271801.	2.9	8
244	Measurement of σ_{pol} , polarisation in $Z/\gamma \rightarrow \mu\mu$. European Physical Journal C, 2018, 78, 163.	1.4	7
245	Combination of inclusive and differential $\overline{\text{t}}\text{t}$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	7
246	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
247	Medium-Induced Modification of Z -Tagged Charged Particle Yields in $Pb-Pb$ Collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS Detector. Physical Review Letters, 2021, 126, 072301.	2.9	7
248	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
249	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	1.4	7
250	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
251	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
252	Measurement of ZZ production in the $\mu\mu\gamma\gamma$ 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

#	ARTICLE	IF	CITATIONS
253	Electrical characterization of surface properties of the ATLAS17LS sensors after neutron, proton and gamma irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 983, 164456.	0.7	6
254	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
255	Search for a Dark Higgs Boson Decaying into WZ or ZZ in Fully Hadronic Final States from pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2021, 125, 251802.	2.9	6
256	Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2021, 16, P07029.	0.5	6
257	Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2020, 125, 251802.	2.9	6
258	Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.	1.4	6
259	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
260	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
261	The ATLAS Fast Tracker system. Journal of Instrumentation, 2021, 16, P07006.	0.5	5
262	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
263	Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb^{-1} of ATLAS data. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
264	Emulating the impact of additional proton-proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. Computing and Software for Big Science, 2022, 6, 1.	1.3	5
265	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
266	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
267	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
268	Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger. Journal of Instrumentation, 2020, 15, P11016-P11016.	0.5	4
269	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.	1.6	4
270	Search for top squarks in events with a Higgs or Z boson using 139 fb^{-1} of pp collision data at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	4

#	ARTICLE	IF	CITATIONS
271	Measurement of S^0 and Λ^0 production in ar dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	4
272	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
273	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
274	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
275	Measurement of the k_t splitting scales in $Z \rightarrow \nu \bar{\nu}$ events in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	3
276	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
277	Measurements of inclusive and differential cross-sections of combined $t\bar{t}\gamma$ and $t\bar{t}W^3$ production in the e^+e^- channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	3
278	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
279	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
280	Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents. Journal of Instrumentation, 2021, 16, P08025.	0.5	3
281	Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
282	Two-particle Bose-Einstein correlations in pp collisions at $\sqrt{s} = 13$ TeV measured with the ATLAS detector at the LHC. European Physical Journal C, 2022, 82, .	1.4	3
283	First bulk and surface results for the ATLAS ITk Strip stereo annulus sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 142-146.	0.7	2
284	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
285	Measurement of the energy asymmetry in ar 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
286	Assembly and electrical tests of the first full-size forward module for the ATLAS ITk Strip detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 112-115.	0.7	1
287	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} ($\sqrt{s} = 13$) TeV pp collisions with the ATLAS detector. , 2018, 2018, 1.		1
288	Measurement of the W-boson mass in pp collisions at ($\sqrt{s} = 7$, $\sqrt{s} = 13$) TeV with the ATLAS detector. , 2018, 78, 1.		1

#	ARTICLE	IF	CITATIONS
289	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using protonâ€“proton collisions at $\sqrt{s}=13$ ext {TeV}. , 2018, 78, 1.		1
290	Operation and performance of the ATLAS semiconductor tracker in LHC RunÂ². Journal of Instrumentation, 2022, 17, P01013. A search for an unexpected asymmetry in the production of $e^+\tau^+4\tau^-$ and $e^-\tau^-4\tau^+$ pairs in protonâ€“proton collisions recorded by the ATLAS detector at	0.5	1
291	collisions recorded by the ATLAS detector at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 830, 137106.	1.5	1