

# Carl Joseph Edmund Suster

## List of Publications by Year in descending order

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Version: 2024-02-01

267  
papers

9,403  
citations

38660

50  
h-index

64668

79  
g-index

285  
all docs

285  
docs citations

285  
times ranked

8304  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	1.4	489
2	Evidence for light-by-light scattering in heavy-ion collisions with the ATLAS detector at the LHC. Nature Physics, 2017, 13, 852-858.	6.5	218
3	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
4	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 903.	1.4	181
5	Search for new high-mass phenomena in the dilepton final state using 36 fb <sup>-1</sup> of proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	168
6	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2017, 96, .	1.6	157
7	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	1.4	145
8	Precision measurement and interpretation of inclusive $W^+W^-$ production. European Physical Journal C, 2017, 77, 367.	1.4	145
9	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
10	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.	1.4	132
11	ATLAS b-jet identification performance and efficiency measurement with tt 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	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
14	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb <sup>-1</sup> of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	116
15	Search for new high-mass phenomena in dijet events using 36 fb <sup>-1</sup> of proton-proton collision data collected at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2017, 96, .	1.6	114
16	Search for heavy resonances decaying into $W^+W^-$ in the $e^+e^- \rightarrow e^+e^- \gamma^* \gamma^* \rightarrow e^+e^- W^+W^-$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.	1.4	108
17	Search for heavy ZZ resonances in the $e^+e^- \rightarrow e^+e^- \gamma^* \gamma^* \rightarrow e^+e^- Z^0 Z^0$ final states using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	1.4	101
18	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	93

#	ARTICLE	IF	CITATIONS
19	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	1.4	87
20	Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb 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	Measurement of the prompt $J/\psi$ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76.	1.4	81
23	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
24	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
25	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
26	Angular analysis of $B_0 \rightarrow K^* \ell^+ \ell^-$ decays in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	76
27	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	1.4	75
28	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
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 new phenomena in high-mass diphoton final states using 37 fb <sup>-1</sup> of proton-proton collisions collected at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 105-125.	1.6	69
31	Search for new resonances in mass distributions of jet pairs using 139 fb <sup>-1</sup> of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	68
32	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
33	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
34	Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	64
35	Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2018, 97, 1.	1.6	64
36	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

#	ARTICLE	IF	CITATIONS
37	Prompt and non-prompt $J/\psi$ and $\psi(2S)$ suppression at high transverse momentum in $5.02\text{-TeV Pb+Pb}$ collisions with the ATLAS experiment. <i>European Physical Journal C</i> , 2018, 78, 762.	1.4	61
38	Search for doubly charged scalar bosons decaying into same-sign $W$ boson pairs with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 58.	1.4	61
39	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 18.	1.4	60
40	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ and $5.0$ . <i>European Physical Journal C</i> , 2018, 78, 142.	1.4	59
41	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 $36\text{ fb}^{-1}$ of pp collision data recorded at $\sqrt{s}=13\text{ TeV}$ with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	59
42	Fiducial, total and differential cross-section measurements of t-channel single top-quark production in pp collisions at $8\text{ TeV}$ using data collected by the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 531.	1.4	56
43	Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	56
44	Search for pair production of Higgs bosons in the $b\bar{b}$ final state using proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	55
45	Search for Higgs boson pair production in the $\gamma\gamma WW$ channel using pp collision data recorded at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 1007.	1.4	53
46	Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. <i>Physical Review Letters</i> , 2018, 120, 211802.	2.9	53
47	Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 154.	1.4	52
48	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=2.76$ and $5.0$ . <i>European Physical Journal C</i> , 2017, 77, 379.	1.4	51
49	Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{NN}}=5.02\text{ TeV}$ Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 997.	1.4	51
50	Search for direct top squark pair production in final states with two leptons in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 898.	1.4	50
51	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in $36\text{ fb}^{-1}$ of pp collisions at. <i>European Physical Journal C</i> , 2018, 78, 401.	1.4	50
52	Search for heavy neutral leptons in decays of $W$ bosons produced in $13\text{ TeV}$ pp collisions using prompt and displaced signatures with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	50
53	Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$ Using $36\text{ fb}^{-1}$ of pp collision data collected by the ATLAS detector. <i>Physical Review Letters</i> , 2017, 119, 181804.	2.9	49
54	Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s}=13\text{ TeV}$ pp collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	49

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55	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using $36 \text{ fb}^{-1}$ of $\sqrt{s}=13 \text{ TeV}$ pp collision data with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	48
56	Measurements of long-range azimuthal anisotropies and associated Fourier coefficients for collisions at $\sqrt{s}=13 \text{ TeV}$ and $\sqrt{s}=8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.1	47
57	Measurements of the production cross section of a $Z$ boson in association with jets in pp collisions at $\sqrt{s}=13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 361.	1.4	47
58	Measurement of the top quark mass in the $t \rightarrow t \bar{t} \hat{A}^+$ . European Physical Journal C, 2019, 79, 1.	1.4	47
59	Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ \rightarrow 4\mu$ decay channel at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	46
60	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
61	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	46
62	Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	45
63	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
64	Measurement of $W^{\pm}Z$ production cross sections and gauge boson polarisation in pp collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	41
65	Higgs boson production cross-section measurements and their EFT interpretation in the $4\ell$ decay channel at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	41
66	Search for heavy resonances decaying into a $W$ or $Z$ boson and a Higgs boson in final states with leptons and b-jets in $36 \text{ fb}^{-1}$ of $\sqrt{s}=13 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
67	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
68	Search for heavy resonances decaying into a pair of $Z$ bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- \gamma \gamma$ final states using $139 \text{ fb}^{-1}$ of proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	40
69	Search for a Structure in the $B \rightarrow s \ell \ell$ Invariant Mass Spectrum with the ATLAS Experiment. Physical Review Letters, 2018, 120, 202007.	1.6	39
70	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	39
71	Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $\sqrt{s}=13 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	38
72	Measurement of the exclusive $p \rightarrow p \gamma$ process in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 303-323.	1.6	38

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73	Search for Higgs boson pair production in the $\gamma\gamma$ final state with 13 TeV pp collision data collected by the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	38
74	Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	38
75	Measurement of the W boson polarisation in $t\bar{t} \rightarrow \ell^+ \ell^- \text{jets}$ events from pp collisions at $\sqrt{s} = 8$ TeV in the lepton+ $\text{jets}$ channel with ATLAS. <i>European Physical Journal C</i> , 2017, 77, 264.	1.4	37
76	Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	37
77	Electron and photon energy calibration with the ATLAS detector using 2015–2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , 2019, 14, P03017-P03017.	0.5	37
78	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb $^{-1}$ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	37
79	Search for the Dimuon Decay of the Higgs Boson in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2017, 119, 051802.	2.9	36
80	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 $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	36
81	Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ – $7.0$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	36
82	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	36
83	Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	36
84	Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 580.	1.4	35
85	Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 777, 91–112.	1.6	35
86	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. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	34
87	Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	34
88	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. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	33
89	Determination of the strong coupling constant $\alpha_s$ from transverse energy-energy correlations in multijet events at $\sqrt{s} = 8$ – $7$ TeV. <i>European Physical Journal C</i> , 2017, 77, 872.	1.4	32
90	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. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	32

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91	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
92	Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb <sup>-1</sup> of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
93	Search for $W$ / $WZ$ resonance production in $\hat{a}, \hat{q}$ 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
94	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
95	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
96	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
97	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
98	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
99	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
100	Measurement of the cross section for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 473-493.	1.6	30
101	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
102	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
103	Searches for heavy $ZZ$ and $ZW$ resonances in the $\hat{a}, \hat{q}$ 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
104	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
105	Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$ production. European Physical Journal C, 2017, 77, 804.	1.4	28
106	Measurement of $WW/WZ$ 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
107	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.	1.6	28
108	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow aa \rightarrow 4b$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	28

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109	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
110	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
111	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
112	Measurement of the transverse momentum distribution of dilepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	28
113	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
114	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
115	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
116	Measurement of the top-quark mass in $t + 1$ -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
117	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\tau$ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
118	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
119	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $ell b\bar{b}$ 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
120	Operation and performance of the ATLAS Tile Calorimeter in Run 1. European Physical Journal C, 2018, 78, 987.	1.4	25
121	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
122	Search for heavy resonances decaying to a W or Z boson and a Higgs boson in the $WZ$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.5	24
123	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
124	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
125	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
126	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



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127	Search for squarks and gluinos in events with an isolated lepton, jets, and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2017, 96, .	1.6	23
128	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
129	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	1.3	23
130	High-ET isolated-photon plus jets production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Nuclear Physics B, 2017, 918, 257-316.	0.9	22
131	Search for pair production of heavy vector-like quarks decaying into high-pT 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
132	Searches for scalar leptoquarks and differential cross-section measurements in dilepton+dijet events in proton-proton collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS experiment. European Physical Journal C, 2019, 79, 1.	1.4	22
133	Measurements of top-quark pair spin correlations in the $W$ channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	22
134	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
135	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
136	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, .	1.4	21
137	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
138	Measurements of top quark spin observables in $t\bar{t}$ events using dilepton final states in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	20
139	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
140	Search for photonic signatures of gauge-mediated supersymmetry in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Physical Review D, 2018, 97, .	1.6	20
141	Search for diboson resonances in hadronic final states in $\sqrt{s} = 13$ TeV of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	20
142	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
143	Prompt and non-prompt $J/\psi$ 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
144	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

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145	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb <sup>-1</sup> of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	19
146	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb <sup>-1</sup> of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	19
147	Search for top quark decays $t \rightarrow qH$ , with $H \rightarrow \tau\tau$ , in $s = 13 \sqrt{s} = 13 \text{ TeV}$ pp collisions using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	18
148	Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	18
149	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. European Physical Journal C, 2021, 81, 1.	1.4	18
150	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. Journal of High Energy Physics, 2021, 2021, 1.	1.6	18
151	Measurement of jet pT correlations in Pb+Pb and pp collisions at $\sqrt{s} = 2.76 \text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 379-402.	1.5	17
152	Probing the W tb vertex structure in t-channel single-top-quark production and decay in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	17
153	Search for supersymmetry in events with b-tagged jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	17
154	Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ with ATLAS. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
155	Direct top-quark decay width measurement in the $\mathbf{\vec{t}} t \bar{\tau}$ lepton+jets channel at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS experiment. European Physical Journal C, 2018, 78, 129.	1.4	17
156	Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
157	Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
158	Measurements of W and Z boson production in pp collisions at $\sqrt{s} = 5.02 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	17
159	Measurement of $W^{\pm} \nu$ boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	17
160	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
161	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. Journal of High Energy Physics, 2020, 2020, 1.	1.6	17
162	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	17

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163	Simultaneous measurements of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})_{\text{fiducial}}$ and $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})_{\text{fiducial}}/\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})_{\text{fiducial}}$ ratios in $\text{pp}$ collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	16
164	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in $\text{pp}$ collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	16
165	Top-quark mass measurement in the all-hadronic $\text{t}\bar{\text{t}} \rightarrow \text{b}\bar{\text{b}}\text{gg}$ decay channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	16
166	Measurement of colour flow using jet-pull observables in $\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{jet}$ events with the ATLAS experiment at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 847.	1.4	16
167	Search for exclusive Higgs and Z boson decays to $\tau^+\tau^-$ and $\tau^+\tau^-\tau^0$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	16
168	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
169	Measurement of the cross-section for electroweak production of dijets in association with a Z boson in $\text{pp}$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 206-228.	1.6	15
170	Search for dark matter in association with a Higgs boson decaying to two photons at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2017, 96, .	1.6	15
171	Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV $\text{pp}$ collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	15
172	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
173	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
174	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
175	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
176	Studies of $Z\tau^+\tau^-$ production in association with a high-mass dijet system in $\text{pp}$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
177	Measurement of $\text{VH}$ , $\sigma(\text{pp} \rightarrow \text{H} + \text{b}\bar{\text{b}})$ production as a function of the vector-boson transverse momentum in 13 TeV $\text{pp}$ collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	14
178	Measurements of inclusive and differential fiducial cross-sections of $\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{jet}$ production in leptonic final states at $\sqrt{s} = 13$ TeV in ATLAS. European Physical Journal C, 2019, 79, 1.	1.4	14
179	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

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181	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
182	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
183	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
184	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.	1.6	14
185	Measurement of the c-jet mistagging efficiency in $t\bar{t}$ events using pp collision data at $\sqrt{s}=13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	1.4	14
186	Measurements of top-quark pair to Z-boson cross-section ratios at $s = 13$ TeV, 8, 7 TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	13
187	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
188	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
189	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
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191	Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $s = 13$ TeV proton-proton collision data. Journal of High Energy Physics, 2017, 2017, 1.	1.6	12
192	Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 776, 295-317.	1.4	12
193	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
194	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
195	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.	1.4	12
196	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
197	Search for supersymmetry in events with four or more charged leptons in $139 \text{ fb}^{-1}$ of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	12
198	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

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199	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
200	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	1.4	12
201	Measurement of jet activity produced in top-quark events with an electron, a muon and two b-tagged jets in the final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 220.	1.4	11
202	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
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204	Measurement of the $Z\gamma$ 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
205	Measurement of the inclusive and fiducial $t\bar{t}$ production cross-sections in the. European Physical Journal C, 2018, 78, 487.	1.4	10
206	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
207	Measurement of $J/\psi$ 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
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210	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with $139 \text{ fb}^{-1}$ of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	10
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212	Measurement of the $W+W\bar{A}\pm$ production cross section in pp collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 354-374.	1.6	9
213	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
214	Measurements of charge and CP asymmetries in b-hadron decays using top-quark events collected by the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	9
215	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
216	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	9

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217	Measurement of the $Z(\hat{a}^+ \hat{a}, \hat{a}, \hat{a}^-)$ 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
218	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
219	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
220	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
221	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
222	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
223	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
224	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
225	Measurements of $W+W\hat{a}^+ + \hat{a}^- + 1$ 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
226	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
227	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
228	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
229	Measurement of $\sigma(\hat{a}, \hat{a}^-)$ , polarisation in $Z/\gamma \rightarrow \hat{a} \hat{a}$ . European Physical Journal C, 2018, 78, 163.	1.4	7
230	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
231	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
232	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	1.4	7
233	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
234	Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ and 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	6

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236	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
237	Association between intravenous fluid resuscitation and outcome among patients with suspected infection and sepsis: A retrospective cohort study. EMA - Emergency Medicine Australasia, 2021, , .	0.5	6
238	Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.	1.4	6
239	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
240	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
241	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
242	Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb <sup>-1</sup> of ATLAS data. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
243	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
244	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, .	1.4	4
245	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
246	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
247	Search for top squarks in events with a Higgs or Z boson using 139 fb <sup>-1</sup> of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	4
248	Measurement of $K_S^0$ and $\Lambda^0$ production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	4
249	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \mu^{\pm} \nu_{\mu} \rightarrow \mu^{\pm} \pi^{\pm} \nu_{\mu} \nu_{\mu}$ events in Run 2 data. European Physical Journal C, 2022, 82, 1.	1.4	4
250	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
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254	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
255	Measurements of inclusive and differential cross-sections of combined $\overline{t}\gamma$ and $tW^3$ production in the $e\bar{\nu}_\mu$ channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	3
256	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
257	Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8, \text{ext } \{ \text{TeV} \}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	3
258	Measurement of b-quark fragmentation properties in jets using the decay $B_{\pm} \hat{\nu}^* J/\psi K_{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
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261	Study of ordered hadron chains with the ATLAS detector. Physical Review D, 2017, 96, .	1.6	2
262	Search for exotic decays of the Higgs boson into $b\overline{b}$ 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
263	Measurement of the energy asymmetry in $t\bar{t}$ production at $\sqrt{s} = 13, \text{TeV}$ with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, .	1.4	2
264	Measurement of the $t\bar{t}$ production cross section in the $\ell, + \text{jets}$ final state in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ using the ATLAS detector. Physical Review D, 2017, 95, .	1.6	1
265	Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in $36 \text{ fb}^{-1}$ of ( $\sqrt{s} = 13$ ) TeV pp collisions with the ATLAS detector. , 2018, 2018, 1.		1
266	Measurement of the W-boson mass in pp collisions at ( $\sqrt{s} = 7, \text{TeV}$ ) with the ATLAS detector. , 2018, 78, 1.		1
267	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at ( $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$ ). , 2018, 78, 1.		1