

# Stephen L Lloyd

## List of Publications by Year in descending order

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Version: 2024-02-01

532  
papers

27,942  
citations

6613

79  
h-index

12272

133  
g-index

560  
all docs

560  
docs citations

560  
times ranked

10087  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.	3.9	6
2	Measurement of the c-jet mistagging efficiency in $t\bar{t}$ events using pp collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	14
3	Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
4	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.	3.9	8
5	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.	4.7	10
6	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	2.9	23
7	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \mu^{\pm} \nu_{\mu} (\rightarrow \pi^{\pm} \nu_{\pi}) \nu_{\tau}$ events in Run 2 data. European Physical Journal C, 2022, 82, 1.	3.9	4
8	The ATLAS inner detector trigger performance in pp collisions at $\sqrt{s} = 13$ TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1.	3.9	5
9	Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	7
10	Measurement of the energy asymmetry in $t\bar{t}$ production at $\sqrt{s} = 13$ TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, .	3.9	2
11	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and $13$ TeV. European Physical Journal C, 2022, 82, 1.	3.9	12
12	Measurement of hadronic event shapes in high-pT multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
13	Search for squarks and gluinos in final states with jets and missing transverse momentum using $139 \text{ fb}^{-1}$ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	37
14	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. European Physical Journal C, 2021, 81, 1.	3.9	12
15	Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at $\sqrt{s} = 13, 8$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	38
16	Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
17	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	17
18	Measurement of light-by-light scattering and search for axion-like particles with $2.2 \text{ nb}^{-1}$ of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	19

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19	Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	6
20	Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
21	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	22
22	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	18
23	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1.	3.9	15
24	Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- u \bar{u}$ final states using 139 fb <sup>-1</sup> of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	40
25	Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
26	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $e^+e^- \rightarrow b\bar{b} H$ and $e^+e^- \rightarrow W W H$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	26
27	Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	23
28	Measurements of $W+W\gamma+1$ jet production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
29	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	46
30	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	3.9	14
31	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\bar{l}_\tau$ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
32	Search for supersymmetry in events with four or more charged leptons in 139 fb <sup>-1</sup> of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
33	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W_{\pm}$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
34	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
35	A search for the decays of stopped long-lived particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
36	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	3.9	82

#	ARTICLE	IF	CITATIONS
37	Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	13
38	Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8, \sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	3
39	Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	64
40	Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	12
41	Search for dark matter produced in association with a single top quark in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	9
42	Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
43	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. European Physical Journal C, 2021, 81, 1.	3.9	5
44	Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
45	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\sqrt{s} = 13$ TeV proton-proton collision data. European Physical Journal C, 2021, 81, 1.	3.9	7
46	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
47	Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
48	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.	4.7	4
49	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.	4.7	4
50	Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	28
51	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	3.9	7
52	Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow \tau^+ J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
53	Measurements of inclusive and differential cross-sections of combined $t\bar{t}\gamma$ and $tW$ production in the $e\mu$ channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	3
54	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, 1.	4.7	17

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55	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	24
56	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $4\ell$ decay channel at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	32
57	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.	4.7	28
58	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.	3.9	34
59	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.	4.7	8
60	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.	4.7	3
61	Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
62	Search for the $HH \rightarrow b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	17
63	Observation of the associated production of a top quark and a Z boson in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
64	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	28
65	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.	4.7	4
66	Measurements of top-quark pair spin correlations in the $\mu\mu$ channel at $\sqrt{s} = 13$ TeV using $pp$ collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	22
67	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
68	Higgs boson production cross-section measurements and their EFT interpretation in the $4\ell$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	41
69	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV $pp$ collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	36
70	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.	4.7	19
71	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.	4.7	7
72	Measurement of the $Z(\nu\bar{\nu})$ production cross-section in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	9

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73	Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at $\sqrt{s}=8$ and $13\text{ TeV}$ . European Physical Journal C, 2020, 80, 1.	3.9	5
74	Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s_{\text{NN}}}=8.16\text{ TeV}$ p+Pb collisions with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	12
75	Measurement of $J/\psi$ production in association with a $W\pm$ boson with pp data at 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	10
76	Search for new resonances in mass distributions of jet pairs using $139\text{ fb}^{-1}$ of pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	68
77	Search for $\overline{t}t$ resonances in fully hadronic final states in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
78	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.	4.7	8
79	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	3.9	93
80	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s}=13\text{ TeV}$ pp collisions using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	124
81	Search for top squarks in events with a Higgs or Z boson using $139\text{ fb}^{-1}$ of pp collision data at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	4
82	Evidence for $\text{t}\bar{\text{t}}$ production in the multilepton final state in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	30
83	Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	29
84	Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s}=13\text{ TeV}$ and decaying into collimated leptons or light hadrons with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	21
85	Search for a scalar partner of the top quark in the all-hadronic $\text{t}\bar{\text{t}}$ plus missing transverse momentum final state at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	36
86	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	3.9	12
87	Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	15
88	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. Journal of High Energy Physics, 2019, 2019, 1.	4.7	49
89	Search for long-lived neutral particles in pp collisions at $\sqrt{s}=13\text{ TeV}$ that decay into displaced hadronic jets in the ATLAS calorimeter. European Physical Journal C, 2019, 79, 1.	3.9	28
90	Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at $\sqrt{s}=13\text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	21

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91	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.	4.7	8
92	Measurement of $W^{\pm}Z$ 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.	3.9	41
93	Searches for third-generation scalar leptoquarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	30
94	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.	4.7	15
95	Search for diboson resonances in hadronic final states in $139 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	20
96	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, .	3.9	4
97	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, .	3.9	21
98	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	24
99	Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
100	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	77
101	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.	3.9	3
102	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.	3.9	22
103	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.	4.7	27
104	Search for top-quark decays $t \rightarrow Hq$ with $36 \text{ fb}^{-1}$ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	19
105	Measurement of $VH$ , $\text{H} \rightarrow \text{b}\overline{\text{b}}$ 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.	4.7	14
106	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.	3.9	17
107	Performance of top-quark and $W$ -boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1.	3.9	42
108	Measurements of inclusive and differential fiducial cross-sections of $\text{t}\gamma$ production in leptonic final states at $\sqrt{s} = 13$ TeV in ATLAS. European Physical Journal C, 2019, 79, 1.	3.9	14

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109	Electron and photon energy calibration with the ATLAS detector using 2015â€“2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017.	1.2	37
110	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58.	3.9	61
111	Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	39
112	In situ calibration of large-radius jet energy and mass in $13\text{ TeV}$ protonâ€“proton collisions with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	28
113	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. European Physical Journal C, 2019, 79, 1.	3.9	46
114	Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ and 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
115	Measurement of the top quark mass in the $t\bar{t} \rightarrow t\bar{t} \hat{A}^{\pm}$ . European Physical Journal C, 2019, 79, 1.	3.9	47
116	Search for pair production of Higgs bosons in the $b\bar{b}$ final state using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	55
117	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.	3.9	25
118	Measurement of the top-quark mass in $t\bar{t} + 1\text{-jet}$ events collected with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	27
119	Measurement of fiducial and differential $W^+W^-$ production cross-sections at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	24
120	Measurement of ZZ production in the $\mu^+\mu^-\nu\nu$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
121	Measurement of $W^{\pm}$ -boson and Z-boson production cross-sections in pp collisions at $\sqrt{s}=2.76\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	8
122	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in protonâ€“proton collisions at $8\text{ TeV}$ using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	9
123	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.	4.7	50
124	Measurement of $W^{\pm}$ boson production in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	17
125	ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s}=13\text{ TeV}$ . European Physical Journal C, 2019, 79, 1.	3.9	130
126	Measurement of flow harmonics correlations with mean transverse momentum in leadâ€“lead and protonâ€“lead collisions at $\sqrt{s_{\text{NN}}} = 5.02\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	36



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127	Measurements of top-quark pair differential and double-differential cross-sections in the $ell$ +jets channel with pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	34
128	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.	4.7	14
129	Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using $36 \text{ fb}^{-1}$ of ATLAS data. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
130	Measurement of $S^0$ and $\Lambda^0$ production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	4
131	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in $36 \text{ fb}^{-1}$ of pp collisions at $s = 13 \sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	116
132	Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $s = 13 \sqrt{s}=13$ TeV with ATLAS. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
133	Measurement of the W-boson mass in pp collisions at $\sqrt{s}=7$ , $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 110.	3.9	218
134	Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at $\sqrt{s}$ s. European Physical Journal C, 2018, 78, 102.	3.9	13
135	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. European Physical Journal C, 2018, 78, 154.	3.9	52
136	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.	3.9	59
137	Measurement of quarkonium production in proton-lead and proton-proton collisions at $5.02\text{--}5.02 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 171.	3.9	75
138	Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s}=\{13\} \text{ TeV}$ s = 13 TeV with ATLAS. European Physical Journal C, 2018, 78, 186.	3.9	20
139	Search for heavy ZZ resonances in the $ell^+ ell^- ell^+ ell^-$ final states using proton-proton collisions at $\sqrt{s}=13$ s = 13 TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	3.9	101
140	A search for pair-produced resonances in four-jet final states at $\sqrt{s}=13$ s = 13 TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 250.	3.9	66
141	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	40
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143	Direct top-quark decay width measurement in the $t\bar{t} \ell^+ \ell^-$ lepton+jets channel at $\sqrt{s}=8\text{--}8 \text{ TeV}$ s = 8 TeV with the ATLAS experiment. European Physical Journal C, 2018, 78, 129.	3.9	17
144	Search for W/W Z resonance production in $\frac{1}{2} qq$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	31

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146	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow a\ell\ell$ channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	28
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152	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. European Physical Journal C, 2018, 78, 401.	3.9	50
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158	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.	3.9	181
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160	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.	4.7	56
161	Operation and performance of the ATLAS Tile Calorimeter in Run 1. European Physical Journal C, 2018, 78, 987.	3.9	25
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164	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using $36 \text{ fb}^{-1}$ of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	48
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166	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.	4.7	15
167	Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tilde{l}, \tilde{l}^*/2$ , in the $\tilde{l}, +\text{jets}$ and $\tilde{l}, +\text{lepton}$ final states with $36 \text{ fb}^{-1}$ of pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	4.7	59
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170	Search for exclusive Higgs and Z boson decays to $\tilde{l}\tilde{l}^*$ and $\tilde{l}\tilde{l}^*$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
171	Measurements of b-jet tagging efficiency with the ATLAS detector using $t\bar{t}$ events at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	40
172	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.	4.7	17
173	Measurement of the inclusive and fiducial $t\bar{t}$ production cross-sections in the. European Physical Journal C, 2018, 78, 487.	3.9	10
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175	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.	3.9	27
176	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	136
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179	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 199.	3.9	132
180	Measurement of $\sigma(\text{pp} \rightarrow \tilde{l}\tilde{l}^*)$ , polarisation in $Z/\gamma \rightarrow \text{pp} \rightarrow Z/\tilde{l}\tilde{l}^*$ . European Physical Journal C, 2018, 78, 163.	3.9	7

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184	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
185	Measurement of the W-boson mass in pp collisions at ( $\sqrt{s}=7, \text{hbox {TeV}}$ ) with the ATLAS detector. , 2018, 78, 1.		1
186	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at ( $\sqrt{s}=13, \text{ext {TeV}}$ ). , 2018, 78, 1.		1
187	Measurement of the $\sigma(\text{pp} \rightarrow \tau^+ \tau^- Z)$ and $\sigma(\text{pp} \rightarrow \tau^+ \tau^- W)$ production cross sections in multilepton final states using $3.2\text{ fb}^{-1}$ of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 40.	3.9	41
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192	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	3.9	87
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203	Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$ . European Physical Journal C, 2017, 77, 804.	3.9	28
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214	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. European Physical Journal C, 2017, 77, 332.	3.9	71
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236	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.	4.7	11
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244	Evidence for the $H\tau^+\tau^-$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	64
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256	The performance of the jet trigger for the ATLAS detector during 2011 data taking. European Physical Journal C, 2016, 76, 526.	3.9	21
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262	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	44
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264	Search for flavour-changing neutral current top-quark decays to $qZ$ in $pp$ collision data collected with the ATLAS detector at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 12.	3.9	39
265	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 87.	3.9	39
266	Search for direct top squark pair production in final states with two tau leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 81.	3.9	10
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411	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	145
412	Search for supersymmetry at $\sqrt{s} = 8$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45
413	Measurement of the low-mass Drell-Yan differential cross section at $\sqrt{s} = 7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	25
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416	Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	10
417	Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45
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419	Measurement of the $t\bar{t}$ production cross-section using (emu) events with (b)-tagged jets in (pp) collisions at ( $\sqrt{s}=7$ ) and 8 TeV with the ATLAS detector. , 2014, 74, 1.		2
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423	Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	137
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429	Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	102
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434	Measurement of the inclusive jet cross-section in pp collisions at $\sqrt{s} = 2.76 \text{ TeV}$ and comparison to the inclusive jet cross-section at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. European Physical Journal C, 2013, 73, 2509.	3.9	105
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457	A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at $\sqrt{s} = 7, \text{TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	34
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490	Measurement of $\tilde{\chi}_1^0$ polarization in $W \rightarrow \tilde{\chi}_1^0 \gamma$ decays with the ATLAS detector in pp collisions at $\sqrt{s} = 7\text{--}m_{\text{TeV}}$ . European Physical Journal C, 2012, 72, 2062.	3.9	21
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495	Measurements of underlying-event properties using neutral and charged particles in pp collisions at $\sqrt{s} = 900\text{--}m_{\text{GeV}}$ and $\sqrt{s} = 7\text{--}m_{\text{TeV}}$ with the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.	3.9	31
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498	Limits on the production of the standard model Higgs boson in pp collisions at $\sqrt{s} = 7\text{--}m_{\text{TeV}}$ with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	40
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500	Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. European Physical Journal C, 2011, 71, 1.	3.9	60
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