

Jiri Kroll

List of Publications by Year in descending order

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714
papers

33,686
citations

5782

84
h-index

12272

138
g-index

756
all docs

756
docs citations

756
times ranked

11441
citing authors

#	ARTICLE	IF	CITATIONS
19	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb ⁻¹ of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	19
20	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
21	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
22	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
23	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	18
24	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
25	Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- \gamma Z$ final states using 139 fb ⁻¹ of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	40
26	Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	18
27	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $e^+e^- \rightarrow e^+e^- \gamma \gamma$ and $e^+e^- \rightarrow e^+e^- W W$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	26
28	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
29	Measurements of $W+W+1$ jet production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
30	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	46
31	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
32	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a τ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
33	Search for supersymmetry in events with four or more charged leptons in 139 fb ⁻¹ of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	12
34	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.	1.6	10
35	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
36	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

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37	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
38	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
39	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.	1.4	3
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	10
48	Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	10
49	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
50	Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
51	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
52	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	1.4	7
53	Measurement of b-quark fragmentation properties in jets using the decay $B^{\pm} \rightarrow J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
54	Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135114.	1.5	14

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55	Search for non-resonant Higgs boson pair production in the $b\bar{b}\gamma, 1\gamma 2\gamma, 1\gamma 2$ final state with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135069.	1.5	13
56	Search for the Higgs boson decays $H\rightarrow e\bar{e}$ and $H\rightarrow e\bar{\nu}_\mu$ in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135148.	1.5	31
57	Searches for lepton-flavour-violating decays of the Higgs boson in $s=13$ TeV pp collisions with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135069.	1.5	30
58	Search for flavour-changing neutral currents in processes with one top quark and a photon using 81 fb $^{-1}$ of pp collisions at $s=13$ TeV with the ATLAS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135082.	1.5	10
59	Measurement of the $\sigma(\text{pp}\rightarrow\text{H}\rightarrow\text{ZZ})$ ratio and cross section of $\text{pp}\rightarrow\text{H}\rightarrow\text{ZZ}$ production in the $e\bar{\nu}_\mu$ channel at 13 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135103.	1.5	53
60	Measurements of inclusive and differential cross-sections of combined $\text{pp}\rightarrow\text{H}\rightarrow\text{ZZ}$ and $\text{pp}\rightarrow\text{H}\rightarrow\text{ZZ}$ 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
61	Electrical characterization of surface properties of the ATLAS17LS sensors after neutron, proton and gamma irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 983, 164456.	0.7	6
62	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
63	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
64	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $H\rightarrow b\bar{b}$ decay channel at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	32
65	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
66	Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	34
67	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
68	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
69	Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	11
70	Search for the $HH\rightarrow b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	17
71	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
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73	Measurement of the transverse momentum distribution of Drellâ€“Yan lepton pairs in protonâ€“proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	28
74	Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s}=13$ TeV proton-proton collisions with the ATLAS detector. Physical Review D, 2020, 101, .	1.6	80
75	Measurement of the azimuthal anisotropy of charged-particle production in $\sqrt{s}=13$ TeV proton-proton collisions at the ATLAS detector. Physical Review Letters, 2020, 124, 222002.	1.1	29
76	Search for direct stau production in events with two hadronic leptons in $\sqrt{s}=13$ TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	33
77	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	20
78	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	4
79	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.	1.6	21
80	Measurements of top-quark pair spin correlations in the $e\mu$ channel at $\sqrt{s}=13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	22
81	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
82	Higgs boson production cross-section measurements and their EFT interpretation in the 4ℓ decay channel at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	41
83	Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	9
84	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.	1.6	36
85	Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in $\sqrt{s}=13$ TeV proton-proton collisions with the ATLAS detector. Physical Review D, 2020, 101, .	1.6	28
86	ATLAS data quality operations and performance for 2015â€“2018 data-taking. Journal of Instrumentation, 2020, 15, P04003-P04003.	0.5	68
87	Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector. Physical Review Letters, 2020, 124, 222002.	2.9	28
88	Measurement of Azimuthal Anisotropy of Muons from Charm and Bottom Hadrons in $\sqrt{s}=13$ TeV Proton-Proton Collisions with the ATLAS Detector. Physical Review Letters, 2020, 124, 082301.	2.9	17
89	Measurement of the σ_{star} production cross-section and lepton differential distributions in $e\mu$ events from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, .	1.4	26
90	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb ⁻¹ of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	19

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91	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
92	Z boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV measured by the ATLAS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 2020, 1.	1.5	11
93	Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector. Physical Review Letters, 2020, 124, 031802.	2.9	25
94	Measurement of the $Z(\nu\bar{\nu})^3$ 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
95	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
96	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
97	Measurement of J/ψ production in association with a W^\pm boson with pp data at 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	10
98	Search for new resonances in mass distributions of jet pairs using 139 fb ⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	68
99	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
100	Reconstruction and identification of boosted di- τ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. Journal of High Energy Physics, 2020, 2020, 1.	1.6	8
101	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	93
102	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
103	Search for top squarks in events with a Higgs or Z boson using 139 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	4
104	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
105	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
106	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
107	Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	36
108	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	1.4	12

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109	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
110	Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s} = 13$ TeV pp collision data collected by the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	49
111	Search for heavy particles decaying into a top-quark pair in the fully hadronic final state in pp collisions at $\sqrt{s} = 13$ -TeV with the ATLAS detector. Physical Review D, 2019, 100, 1.	2.9	23
112	Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum at $\sqrt{s} = 13$ -TeV with the ATLAS detector. Physical Review D, 2019, 100, 1.	1.6	21
113	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
114	Search for heavy particles decaying into a top-quark pair in the fully hadronic final state in pp collisions at $\sqrt{s} = 13$ -TeV with the ATLAS detector. Physical Review D, 2019, 100, 1.	1.6	22
115	Search for heavy particles decaying into a top-quark pair in the fully hadronic final state in pp collisions at $\sqrt{s} = 13$ -TeV with the ATLAS detector. Physical Review D, 2019, 100, 1.	1.6	22
116	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
117	Observation of Light-by-Light Scattering in Ultraperipheral Collisions with the ATLAS Detector. Physical Review Letters, 2019, 123, 052001.	2.9	75
118	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
119	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.	1.4	41
120	Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801.	2.9	133
121	Measurement of the $t\bar{t}Z$ cross sections in pp collisions at $\sqrt{s} = 13$ -TeV with the ATLAS detector. Physical Review D, 2019, 100, 1.	1.6	28
122	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
123	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
124	Search for diboson resonances in hadronic final states in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	20
125	Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} = 13$ -TeV with the ATLAS experiment at the LHC. European Physical Journal C, 2019, 79, 1.	1.4	4
126	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.	1.4	21

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127	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
128	Properties of jet fragmentation using charged particles measured with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2019, 100, 1.	1.6	9
129	Boson Pair in Association with Two Jets in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Journal of High Energy Physics, 2019, 2019, 1.	2.9	53
130	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
131	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
132	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
133	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
134	Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 347-370.	1.5	9
135	Measurement of the cross-section for the production of a top quark and a bottom quark in association with a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2019, 99, 1.	1.6	20
136	Correlated long-range mixed-harmonic fluctuations measured in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 444-471.	1.5	25
137	Modelling radiation damage to pixel sensors in the ATLAS detector. Journal of Instrumentation, 2019, 14, P06012-P06012.	0.5	7
138	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
139	Combinations of single-top-quark production cross-section measurements and $ f_{LVtb} $ determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experiments. Journal of High Energy Physics, 2019, 2019, 1.	1.6	9
140	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
141	Measurement of VH , $\sigma(\text{H} \rightarrow \text{b}\overline{\text{b}})$ 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.	1.6	14
142	Measurements of inclusive and differential fiducial cross-sections of $t\overline{t}$ production with additional heavy-flavour jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	18
143	Measurement of the four-lepton invariant mass spectrum in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	12
144	Search for Higgs boson pair production in the $\text{b}\overline{\text{b}}W\overline{W}^*$ decay mode at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	26

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145	Search for heavy long-lived multicharged particles in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2019, 99, .	1.6	11
146	Properties of $\Lambda(1520)$ baryon in proton-proton collisions with the ATLAS detector. Physical Review D, 2019, 99, .	1.6	6
147	Leptons in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2019, 99, .	1.6	63
148	Measurements of W and Z boson production in pp collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	17
149	Study of the rare decays of B^0_s and B^0 mesons into muon pairs using data collected during 2015 and 2016 with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, .	1.6	62
150	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
151	Measurements of inclusive and differential fiducial cross-sections of $\gamma^* \rightarrow \ell\ell$ production in leptonic final states at $\sqrt{s}=13$ TeV in ATLAS. European Physical Journal C, 2019, 79, 1.	1.4	14
152	Search for long-lived particles produced in pp collisions at $\sqrt{s}=13$ TeV that decay into displaced hadronic jets in the ATLAS muon spectrometer. Physical Review D, 2019, 99, .	1.6	35
153	Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 2, 9 122, 151801.		12
154	Electron and photon energy calibration with the ATLAS detector using 2015–2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017.	0.5	37
155	Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2019, 99, .	1.6	13
156	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58.	1.4	61
157	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.	1.6	39
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161	Measurement of the top quark mass in the $t \rightarrow t \gamma^*$. European Physical Journal C, 2019, 79, 1.	1.4	47
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166	Search for squarks and gluinos in final states with hadronically decaying leptons, jets, and missing transverse momentum using collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	13
167	Measurement of the top-quark mass in $t\bar{t}$ + 1-jet events collected with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	27
168	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
169	Measurement of ZZ production in the $\tau^+ \tau^- \nu \nu$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	6
170	Measurement of W^+W^- -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
171	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	9
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173	Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	50
174	Measurement of W^+W^- boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	17
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177	Resolution of the ATLAS muon spectrometer monitored drift tubes in LHC Run 2. Journal of Instrumentation, 2019, 14, P09011-P09011.	0.5	7
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179	Search for electroweak diboson production in association with a high-mass dijet system in semileptonic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2019, 100, .	1.1	14
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182	Measurements of top-quark pair differential and double-differential cross-sections in the $t\bar{t} + \text{jets}$ channel with pp collisions at $\sqrt{s} = 13 \text{ TeV}$ using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	34
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195	Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 776, 295-317.	1.4	218
196	Measurement of the 2-jet inclusive $t\bar{t} + \text{jets}$ 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, 91-113.	1.6	12
197	Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 91-113.	1.6	38
198	Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 91-113.	1.6	38

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200	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.	1.4	52
201	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.0. European Physical Journal C, 2018, 78, 142.	1.4	59
202	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
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204	Search for heavy ZZ resonances in the $e^+e^-e^+e^-$, $e^+e^-e^+e^-$ and $e^+e^-e^+e^-$ 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
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215	Search for the Higgs boson produced in association with a Z boson and decaying into two photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 776, 318-337.	1.5	54
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231	Search for Higgs boson pair production in the $b\bar{b}$ final state with 13 TeV pp collision data collected by the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	1.6	38
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233	Measurement of the azimuthal anisotropy of charged particles produced in Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 1007.	1.4	51
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252	Searches for exclusive Higgs and Z boson decays into $J/\psi \rightarrow \tau^+ \tau^-$, $\tilde{\tau}(2S) \rightarrow \tau^+ \tau^-$, and $\tilde{\tau}(nS) \rightarrow \tau^+ \tau^-$ at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 134-155.	1.6	12

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254	Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	15
255	Combination of searches for heavy resonances decaying into bosonic and leptonic final states using proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2018, 98, .	1.5	138
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258	Prompt and non-prompt J/ψ and $\psi(2S)$ suppression at high transverse momentum in $\sqrt{s}=5.02$ TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	1.4	61
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263	Measurement of the Higgs boson mass in the $H \rightarrow ZZ \rightarrow 4\ell$, " and $H \rightarrow \tau\tau$ channels with $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 345-366.	1.6	68
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272	Search for Low-Mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 565.	2.9	41
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290	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
291	Measurement of σ_{pol} , polarisation in $Z/\gamma \rightarrow \text{e}^+\text{e}^-$. European Physical Journal C, 2018, 78, 163.	1.4	7
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295	Measurement of jet fragmentation in 5.02 TeV proton-lead and proton-proton collisions with the ATLAS detector. Nuclear Physics A, 2018, 978, 65-106.	0.6	21
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301	Combination of inclusive and differential charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	7
302	Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb^{-1} of ($\sqrt{s}=13$) TeV pp collisions with the ATLAS detector. , 2018, 2018, 1.		1
303	Measurement of the W-boson mass in pp collisions at ($\sqrt{s}=7$, $\text{hbox {TeV}}$) with the ATLAS detector. , 2018, 78, 1.		1
304	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
305	Measurement of the $\sigma(\text{e}^+\text{e}^- \rightarrow Z \text{e}^+\text{e}^-)$ and $\sigma(\text{e}^+\text{e}^- \rightarrow W \text{e}^+\text{e}^-)$ production cross sections in multilepton final states using 3.2 fb^{-1} of e^+e^- collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 40.	1.4	41
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309	Measurement of the W boson polarisation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV in the lepton+jets channel with ATLAS. European Physical Journal C, 2017, 77, 264.	1.4	37
310	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	1.4	87
311	Measurements of top-quark pair differential cross-sections in the e^+e^- channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. European Physical Journal C, 2017, 77, 292.	1.4	27
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328	Measurement of the cross-section for electroweak production of dijets in association with a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 206-228.	1.6	15
329	Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$. European Physical Journal C, 2017, 77, 804.	1.4	28
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342	Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. European Physical Journal C, 2017, 77, 70.	1.4	79

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344	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. <i>European Physical Journal C</i> , 2017, 77, 332.	1.4	71
345	Measurements of the production cross section of a Z boson in association with jets in pp collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2017, 77, 361.	1.4	47
346	Precision measurement and interpretation of inclusive W^+W^- , W^+W^+ , W^-W^- . <i>European Physical Journal C</i> , 2017, 77, 367.	1.4	145
347	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. <i>European Physical Journal C</i> , 2017, 77, 379.	1.4	51
348	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. <i>European Physical Journal C</i> , 2017, 77, 393.	1.4	80
349	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. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	14
350	Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 898.	1.4	50
351	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. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	8
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353	Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	8
354	Search for supersymmetry in events with b-tagged jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	17
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359	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
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380	Search for new high-mass phenomena in the dilepton final state using 36 fb ⁻¹ 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
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382	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
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389	Measurement of the ²⁴¹ Am neutron capture cross section at the n_TOF facility at CERN. EPJ Web of Conferences, 2017, 146, 11022.	0.1	1
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441	Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 392.	1.4	73
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