Vivek Jain

List of Articles by Year in descending order

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478 peer-reviewed articles	27,001 peer-reviewed citations	7941 75 peer-reviewed h-index	10299 7.97 score
481 documents	29107 doc citations	8932 79 h-index	129 citing authors

#	Article	IF	Citations
1	Supernova pointing capabilities of DUNE. Physical Review D, 2025, 111, .	3.4	5
2	First measurement of the total inelastic cross section of positively charged kaons on argon at energies between 5.0 and 7.5 GeV. Physical Review D, 2024, 110, .	3.4	8
3	Two-particle Bose–Einstein correlations in $${ pp }$$ collisions at $$\mathbf {\sqrt{s} = 13}$$ TeV measured with the ATLAS detector at the LHC. European Physical Journal C, 2022, 82, .	3.0	8
4	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, .	3.1	12
5	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb−1 of $$ \sqrt{s} $$ = 13 TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, .	3.1	79
6	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, .	3.0	23
7	Measurements of WH and ZH production in the $$H \rightarrow b\bar{b}$$ decay channel in pp collisions at $$13\,\text {Te}\text {V}$$ with the ATLAS detector. European Physical Journal C, 2021, 81, .	3.0	77
8	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, .	3.1	33
9	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, .	3.0	28
10	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, .	3.1	50
11	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, .	3.1	31
12	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $$ \sqrt{\mathrm{s}} $$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, .	3.1	32
13	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, .	3.0	25
14	Measurement of the CP-violating phase $$\phi _s$$ in $$ B_{s}^{0} \rightarrow J/\psi \phi $$ decays in ATLAS at 13 TeV. European Physical Journal C, 2021, 81, .	3.0	29
15	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton–proton collisions. European Physical Journal C, 2021, 81, .	3.0	30
16	Search for heavy resonances decaying into a pair of Z bosons in the $$\ell ^+\ell ^-\ell '^+\ell '^-$$ and $$\ell ^+\ell ^-\nu {{\bar{\nu }}}$$ final states using 139 $$\mathrm {fb}^{-1}$$ of proton–proton collisions at $$\sqrt{s} = 13\,$$TeV with the ATLAS detector. European Physical Journal C, 2021, 81, .	3.0	71
17	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $$\ell \ell bb$$ and $$\ell \ell WW$$ final states in pp collisions at $$\sqrt{s}=13$$ $$\text {TeV}$$ with the ATLAS detector. European Physical Journal C, 2021, 81, .	3.0	44
18	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $$ \sqrt{\mathrm{s}} $$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, .	3.1	87

#	Article	IF	Citations
19	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, .	3.1	38
20	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, .	3.1	28
21	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, .	3.1	20
22	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, .	3.0	195
23	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, .	3.0	25
24	Measurement of single top-quark production in association with a W boson in the single-lepton channel at $$\sqrt{s} = 8\,\text {TeV}$$ with the ATLAS detector. European Physical Journal C, 2021, 81, .	3.0	9
25	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, .	3.0	169
26	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, .	3.0	22
27	Application of Natural Betalain Dye from Beetroot for Improved Efficiency in Dye Sensitized Solar Cell. IOP Conference Series: Materials Science and Engineering, 2021, 1187, 012005.	0.3	4
28	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, .	3.0	15
29	Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $$ \sqrt{\mathrm{s}} $$ = 13 TeV using the ATLAS detector. Journal of High Energy Physics, 2021, 2021, .	3.1	30
30	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, .	3.0	6
31	Measurements of inclusive and differential cross-sections of combined $$ t\overline{t}\gamma $$ and tWγ production in the eμ channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, .	3.1	7
32	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, .	3.1	30
33	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, .	3.1	28
34	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, .	3.0	43
35	Fluctuations of anisotropic flow in Pb+Pb collisions at $$ \sqrt{{\mathrm{s}}_{\mathrm{NN}}} $$ = 5.02 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, .	3.1	40
36	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, .	3.0	56

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37	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, .	3.1	9
38	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, .	3.1	7
39	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, .	3.1	15
40	Search for the HH → $$ b\overline{b}b\overline{b} $$ 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, .	3.1	27
41	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, .	3.1	17
42	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, .	3.0	46
43	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, .	3.1	12
44	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, .	3.0	43
45	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, .	3.1	21
46	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, .	3.0	69
47	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, .	3.1	51
48	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, .	3.1	23
49	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, .	3.1	14
50	Measurement of the Z(→ ℓ+ℓ−)γ production cross-section in pp collisions at $$ \sqrt{s}=13 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, .	3.1	18
51	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, .	3.0	11
52	Transverse momentum and process dependent azimuthal anisotropies in $$\sqrt{s_{\mathrm {NN}}}=8.16$$ TeV p+Pb collisions with the ATLAS detector. European Physical Journal C, 2020, 80, .	3.0	30
53	Measurement of J/ψ production in association with a W± boson with pp data at 8 TeV. Journal of High Energy Physics, 2020, 2020, .	3.1	14
54	Search for new resonances in mass distributions of jet pairs using 139 fb−1 of pp collisions at $$ \sqrt{\mathrm{s}} $$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, .	3.1	105

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55	Search for $$ t\overline{t} $$ 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, .	3.1	28
56	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, .	3.1	13
57	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, .	3.0	190
58	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, .	3.0	201
59	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, .	3.0	9
60	Evidence for $$t\bar{t}t\bar{t}$$ 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, .	3.0	44
61	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, .	3.0	48
62	Search for light long-lived neutral particles produced in pp collisions at $$\sqrt{s} = 13~\mathrm {TeV}$$ and decaying into collimated leptons or light hadrons with the ATLAS detector. European Physical Journal C, 2020, 80, .	3.0	26
63	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, .	3.0	66
64	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, .	3.0	25
65	Determination of jet calibration and energy resolution in proton–proton collisions at $$\sqrt{s} = 8~\hbox {TeV}$$ using the ATLAS detector. European Physical Journal C, 2020, 80, .	3.0	24
66	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, .	3.1	54
67	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, .	3.0	36
68	Search for Higgs boson pair production in the WW(*)WW(*) decay channel using ATLAS data recorded at $$ \sqrt{\mathrm{s}} $$ = 13 TeV. Journal of High Energy Physics, 2019, 2019, .	3.1	26
69	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, .	3.1	12
70	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, .	3.0	67
71	Searches for third-generation scalar leptoquarks in $$ \sqrt{s} $$ = 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, .	3.1	36
72	Search for scalar resonances decaying into μ+μ− 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, .	3.1	16

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73	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, .	3.1	29
74	Search for excited electrons singly produced in proton–proton collisions at $$\sqrt{s} ~=~13~\text {Te}\text {V}$$ with the ATLAS experiment at the LHC. European Physical Journal C, 2019, 79, .	3.0	6
75	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at 13 $$\text {TeV}$$. European Physical Journal C, 2019, 79, .	3.0	29
76	Measurement of the cross-section and charge asymmetry of W bosons produced in proton–proton collisions at $$\sqrt{s}=8~\text {TeV}$$ with the ATLAS detector. European Physical Journal C, 2019, 79, .	3.0	36
77	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, .	3.1	28
78	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton–proton collision data at $$\sqrt{s} = 13$$ $$\text {TeV}$$. European Physical Journal C, 2019, 79, .	3.0	111
79	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, .	3.0	8
80	Searches for scalar leptoquarks and differential cross-section measurements in dilepton–dijet events in proton–proton collisions at a centre-of-mass energy of $$\varvec{\sqrt{s}}$$ = 13 TeV with the ATLAS experiment. European Physical Journal C, 2019, 79, .	3.0	32
81	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, .	3.1	36
82	Search for top-quark decays t → 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, .	3.1	28
83	Measurement of VH, $$ \mathrm{H}\to \mathrm{b}\overline{\mathrm{b}} $$ 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, .	3.1	18
84	Measurements of W and Z boson production in pp collisions at $$\sqrt{s}=5.02$$ s = 5.02 TeV with the ATLAS detector. European Physical Journal C, 2019, 79, .	3.0	22
85	Performance of $$\varvec{W}$$	3.0	65
86	Measurements of inclusive and differential fiducial cross-sections of $$t\bar{t}\gamma $$ production in leptonic final states at $$\sqrt{s}=13~\text {TeV}$$ in ATLAS. European Physical Journal C, 2019, 79, .	3.0	17
87	Electron and photon energy calibration with the ATLAS detector using 2015–2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017.	0.9	50
88	Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, .	3.0	75
89	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, .	3.1	51
90	In situ calibration of large-radius jet energy and mass in 13 TeV proton–proton collisions with the ATLAS detector. European Physical Journal C, 2019, 79, .	3.0	43

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91	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, .	3.0	53
92	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, .	3.1	11
93	Measurement of the top quark mass in the $$t\bar{t}\rightarrow $$	3.0	68
94	Search for pair production of Higgs bosons in the $$ b\overline{b}b\overline{b} $$ final state using proton-proton collisions at $$ \sqrt{s}=13 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, .	3.1	64
95	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, .	3.0	37
96	Measurement of the top-quark mass in $$ t\overline{t} $$ + 1-jet events collected with the ATLAS detector in pp collisions at $$ \sqrt{s} $$ = 8 TeV. Journal of High Energy Physics, 2019, 2019, .	3.1	32
97	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, .	3.0	40
98	Measurement of ZZ production in the $\ell\ell\nu\nu$ final state with the ATLAS detector in pp collisions at $$ \sqrt{s} $$ = 13 TeV. Journal of High Energy Physics, 2019, 2019, .	3.1	14
99	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, .	3.0	9
100	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, .	3.0	15
101	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, .	3.1	82
102	Measurement of $$W^\pm $$ boson production in Pb+Pb collisions at $$\sqrt{s_{\mathrm{NN}}} = 5.02~\text{Te}\text{V}$$ with the ATLAS detector. European Physical Journal C, 2019, 79, .	3.0	25
103	ATLAS b-jet identification performance and efficiency measurement with $$t{\bar{t}}$$ events in pp collisions at $$\sqrt{s}=13$$ TeV. European Physical Journal C, 2019, 79, .	3.0	223
104	Measurement of flow harmonics correlations with mean transverse momentum in lead–lead and proton–lead collisions at $$\sqrt{s_{\mathrm{NN}}} = 5.02~\hbox{TeV}$$ with the ATLAS detector. European Physical Journal C, 2019, 79, .	3.0	55
105	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, .	3.0	53
106	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, .	3.1	26
107	Measurement of the inclusive isolated-photon cross section in pp collisions at $$ \sqrt{s} $$ = 13 TeV using 36 fb−1 of ATLAS data. Journal of High Energy Physics, 2019, 2019, .	3.1	12
108	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, .	3.0	6

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109	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb−1 of pp collisions at s = 13 $$ \sqrt{s}=13 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, .	3.1	132
110	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, .	3.1	24
111	Measurement of the W-boson mass in pp collisions at $$\sqrt{s}=7\, \hbox {TeV}$$ s = 7 TeV with the ATLAS detector. European Physical Journal C, 2018, 78, .	3.0	254
112	Search for new phenomena in high-mass final states with a photon and a jet from $$pp$$	3.0	15
113	Search for the direct production of charginos and neutralinos in final states with tau leptons in $$\sqrt{s} = 13\,\mathrm{TeV}$$ s = 13 TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, .	3.0	62
114	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $$\sqrt{s_{\text {NN}}}=2.76$$	3.0	87
115	Measurement of quarkonium production in proton–lead and proton–proton collisions at $$5.02~\mathrm {TeV}$$ 5.02 TeV with the ATLAS detector. European Physical Journal C, 2018, 78, .	3.0	91
116	Measurement of differential cross-sections of a single top quark produced in association with a W boson at $$\sqrt{s}={13}{\text {TeV}}$$	3.0	25
117	Search for heavy ZZ resonances in the $$\ell ^+\ell ^-\ell ^+\ell ^-$$ ℓ + ℓ - ℓ + ℓ - and $$\ell ^+\ell ^-\nu \bar{\nu }$$ ℓ + ℓ - ν ν ¯ final states using proton–proton collisions at $$\sqrt{s}= 13$$ s = 13 $$\text {TeV}$$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, .	3.0	104
118	A search for pair-produced resonances in four-jet final states at $$\sqrt{s}=13$$ s = 13 $$\text {TeV}$$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, .	3.0	75
119	Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb−1 of $$ \sqrt{s}=13 $$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, .	3.1	41
120	Search for heavy resonances decaying into WW in the $$e\nu \mu \nu $$ e ν μ ν final state in pp collisions at $$\sqrt{s}=13$$ s = 13 $$\,\text {TeV}$$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, .	3.0	115
121	Direct top-quark decay width measurement in the $$\mathbf {\varvec{t\bar{t}}}$$ t t ¯ lepton+jets channel at $$\sqrt{s}=8~\text {TeV}$$ s = 8 TeV with the ATLAS experiment. European Physical Journal C, 2018, 78, .	3.0	20
122	Search for W W/W Z resonance production in ℓνqq final states in pp collisions at $$ \sqrt{s}=13 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, .	3.1	34
123	Measurement of the Higgs boson coupling properties in the H → ZZ∗ → 4ℓ decay channel at $$ \sqrt{s}=13 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, .	3.1	59
124	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the H → aa → 4b channel in pp collisions at $$ \sqrt{s}=13 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, .	3.1	37
125	Measurement of the $$ Z\gamma \to \nu \overline{\nu}\gamma $$ 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, .	3.1	23
126	Prompt and non-prompt $$J/\psi $$ J / ψ elliptic flow in Pb+Pb collisions at	3.0	27

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127	Search for Higgs boson pair production in the $$\gamma \gamma WW^*$$ γ γ W	3.0	62
128	Measurement of colour flow using jet-pull observables in $$t\bar{t}$$ t t	3.0	23
129	events with the ATLAS experiment at Angular analysis of B0 d → K∗μ+μ− decays in pp collisions at $$ \sqrt{s}=8 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, .	3.1	108
130	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb $$^{-1}$$	3.0	54
131	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, .	3.1	40
132	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, .	3.1	18
133	Search for Higgs boson pair production in the $$ \upgamma \upgamma b\overline{b} $$ final state with 13 TeV pp collision data collected by the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, .	3.1	43
134	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, .	3.1	48
135	Measurement of the azimuthal anisotropy of charged particles produced in $$\sqrt{s_{_\text {NN}}}$$ s NN	3.0	83
136	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton–proton collisions at $$ \sqrt{s}=13~\hbox {TeV}$$	3.0	208
137	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $$\sqrt{s}=13\hbox {TeV}$$	3.0	151
138	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, .	3.1	67
139	Operation and performance of the ATLAS Tile Calorimeter in Run 1. European Physical Journal C, 2018, 78, .	3.0	29
140	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. Journal of High Energy Physics, 2018, 2018, .	3.1	40
141	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, .	3.1	33
142	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb−1 of $$ \sqrt{s}=13 $$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, .	3.1	52
143	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, .	3.1	82
144	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, .	3.1	16

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148	Search for exclusive Higgs and Z boson decays to ϕγ and ργ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, .	3.1	21
149	Measurements of b-jet tagging efficiency with the ATLAS detector using $$ t\overline{t} $$ events at $$ \sqrt{s}=13 $$ TeV. Journal of High Energy Physics, 2018, 2018, .	3.1	45
150	Search for flavour-changing neutral current top-quark decays t → qZ in proton-proton collisions at $$ \sqrt{s}=13 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, .	3.1	23
151	Measurement of the inclusive and fiducial $$t\bar{t}$$	3.0	15
152	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton–proton collisions at $$\sqrt{s} = 13$$ s = 13	3.0	88
153	Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $$\sqrt{s}=13$$ s = 13	3.0	29
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160	Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, .	3.1	42
161	Measurement of differential cross sections and W+/W− cross-section ratios for W boson production in association with jets at $$ \sqrt{s}=8 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, .	3.1	27
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252	Measurement of the transverse momentum and $$\phi ^*_{\eta }$$ ϕ η ∗ distributions of Drell–Yan lepton pairs in proton–proton collisions at $$\sqrt{s}=8$$ s = 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, .	3.0	181

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