

Alexi Gongadze

List of Publications by Year in descending order

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322
papers

12,219
citations

28274

55
h-index

48315

88
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329
all docs

329
docs citations

329
times ranked

8793
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	3.9	489
2	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 292.	3.9	453
3	Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653.	3.9	279
4	Evidence for light-by-light scattering in heavy-ion collisions with the ATLAS detector at the LHC. Nature Physics, 2017, 13, 852-858.	16.7	218
5	Measurement of the W-boson mass in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 110.	3.9	218
6	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
7	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.	4.7	168
8	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2017, 96, .	4.7	157
9	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	3.9	145
10	Precision measurement and interpretation of inclusive W^+W^- production. European Physical Journal C, 2017, 77, 367.	3.9	145
11	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2018, 121, 211801.	7.8	145
12	Observation of Higgs boson decays and VH production with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 378, 257-262.	4.1	138
13	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
14	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
15	ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	130
16	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995.	3.9	125
17	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb ⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	116
18	Measurements of Higgs boson properties in the diphoton decay channel with 36 fb ⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2018, 98, .	4.7	115

#	ARTICLE	IF	CITATIONS
19	Search for heavy resonances decaying into WW in the $e^+e^- \rightarrow \mu^+\mu^- \gamma^* \rightarrow W^+W^-$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.	3.9	108
20	Search for squarks and gluinos in final states with jets and missing transverse momentum using $\sqrt{s} = 13$ TeV proton-proton collisions at the ATLAS detector. Physical Review D, 2018, 97, .	3.9	101
21	Search for heavy ZZ resonances in the $e^+e^- \rightarrow \mu^+\mu^- \gamma^* \rightarrow Z^+Z^-$ final states using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.	3.9	93
22	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	3.9	87
23	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.	3.9	86
24	Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.	3.9	82
25	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	81
26	Measurement of the prompt J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76.	3.9	80
27	Search for dark matter at $\sqrt{s} = 13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. European Physical Journal C, 2017, 77, 393.	3.9	79
28	Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. European Physical Journal C, 2017, 77, 70.	3.9	79
29	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 565.	3.9	77
30	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	76
31	Angular analysis of $B^0 \rightarrow K^* \gamma$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	75
32	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	3.9	75
33	Measurement of quarkonium production in lead and proton-proton collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.	3.9	74
34	Measurement of the nuclear modification factor for inclusive jets in Pb+Pb collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 108-128.	3.9	73
35	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. European Physical Journal C, 2016, 76, 666.	3.9	73
36	Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 392.	3.9	73

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37	Search for supersymmetry at $\sqrt{s}=13$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. European Physical Journal C, 2016, 76, 259.	3.9	72
38	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
39	Search for resonances in diphoton events at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	70
40	Search for Resonant and Nonresonant Higgs Boson Pair Production in the Decay Channel in $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review Letters, 2018, 121, 191801.	7.8	70
41	Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	67
42	A search for pair-produced resonances in four-jet final states at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 250.	3.9	66
43	Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	64
44	Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2018, 97, .	4.7	64
45	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
46	Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2018, 97, .	4.7	63
47	Measurement of the Higgs boson mass in the $H \rightarrow ZZ \rightarrow 4\ell$ channel 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.	4.7	63
48	Charged-particle distributions at low transverse momentum in $\sqrt{s}=13$ TeV pp interactions measured with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 502.	3.9	61
49	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.	3.9	61
50	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
51	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 18.	3.9	60
52	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ and 5.0 TeV. European Physical Journal C, 2018, 78, 142.	3.9	59
53	Search for charged Higgs bosons decaying via $H_{\pm} \rightarrow \tilde{l}_{\pm} \tilde{l}_{\pm}^{*}$, in the \tilde{l}_{\pm} , +jets and \tilde{l}_{\pm} , +lepton final states with 36 fb $^{-1}$ of pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	4.7	59
54	Fiducial, total and differential cross-section measurements of t-channel single top-quark production in pp collisions at 8 TeV using data collected by the ATLAS detector. European Physical Journal C, 2017, 77, 531.	3.9	56

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55	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
56	Search for pair production of Higgs bosons in the $\sqrt{s}=13$ TeV 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
57	Search for a Z boson or dark matter candidates produced 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, 2018, 2018, 318-317.	4.1	54
58	Search for Higgs boson pair production in the $\gamma\gamma WW^*WW^*$ channel using pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 1007.	3.9	53
59	Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. Physical Review Letters, 2018, 120, 211802.	7.8	53
60	Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 154.	3.9	52
61	Search for minimal supersymmetric standard model Higgs Bosons H_{\pm} and for a Z^{\prime} boson in the $\tau\tau$ final state produced in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 585.	3.9	51
62	Measurement of the charged-particle multiplicity inside jets from $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2016, 76, 322.	3.9	51
63	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. European Physical Journal C, 2017, 77, 379.	3.9	51
64	Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector. Physical Review D, 2018, 97, .	4.7	51
65	Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{NN}}=5.02$ TeV Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 997.	3.9	51
66	Search for direct top squark pair production in final states with two leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898.	3.9	50
67	Search for high-mass resonances decaying to $\tau\tau$ in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. Physical Review Letters, 2018, 120, 211802.	7.8	50
68	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 401.	3.9	50
69	Search for a new heavy gauge-boson resonance decaying into a $b\bar{b}$ pair in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 1007.	4.7	49
70	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.	4.7	49
71	Test of CP invariance in vector-boson fusion production of the Higgs boson using the Optimal Observable method in the ditau decay channel with the ATLAS detector. European Physical Journal C, 2016, 76, 658.	3.9	48
72	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	48

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73	Measurements of the production cross section of a Z boson in association with jets in pp collisions at $\sqrt{s} = 13$ s. European Physical Journal C, 2017, 77, 361.	3.9	47
74	Study of the rare decays of B^0_s and B^0 into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. European Physical Journal C, 2016, 76, 513.	3.9	46
75	Measurement of long-range multiparticle azimuthal correlations with the six-event cumulant method in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector at the CERN Large Hadron Collider. Physical Review C, 2018, 97, 044907.	2.9	46
76	Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ \rightarrow 4\mu$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	46
77	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
78	Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow \tau\tau$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 508-529.	4.1	46
79	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
80	Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	45
81	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the a_s, a_b 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, 2018, 783, 392-414.	4.1	45
82	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
83	Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \rightarrow 4\mu$ and $ZZ \rightarrow 2\mu, 2\tau$ final states with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 223-244.	4.1	43
84	Combined measurement of differential and total cross sections in the $H \rightarrow \tau\tau$ and the $H \rightarrow ZZ \rightarrow 4\mu$ decay channels at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 114-133.	4.1	42
85	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
86	Measurement of the $t\bar{t}Z$ and $t\bar{t}W$ production cross sections in dilepton final states using 3.2 fb of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 40.	3.9	41
87	Scattering in $Pb-Pb$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 114-133.	7.8	41
88	Search for chargino-neutralino production using recursive jigsaw reconstruction in final states with two or three charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2019, 99, 052002.	4.7	41
89	Measurement of the $t\bar{t}Z$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review Letters, 2018, 121, 081801.	7.8	41
90	Higgs boson production cross-section measurements and their EFT interpretation in the 4μ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	41

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91	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 $\sqrt{s}=13 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	40
92	Measurements of b-jet tagging efficiency with the ATLAS detector using \overline{t} events at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	40
93	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 $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	40
94	Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb^{-1} of proton-proton collision data at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Physical Review D, 2018, 98, .	4.7	39
95	Search for a Structure in the $B \rightarrow s \gamma$ Invariant Mass Spectrum with the ATLAS Experiment. Physical Review Letters, 2018, 120, 202007.	4.7	39
96	Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	39
97	Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $s = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	38
98	Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $s = 13 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	38
99	Measurement of the exclusive $p \rightarrow p \pi^+ \pi^0$ process in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 303-323.	4.7	38
100	Search for Higgs boson pair production in the $\gamma\gamma \rightarrow b\bar{b}$ final state with 13 TeV pp collision data collected by the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
101	Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	38
102	Search for bottom squark pair production in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 547.	3.9	37
103	Measurement of the W boson polarisation in $t\bar{t} \rightarrow e^+e^- \gamma$ events from pp collisions at $\sqrt{s}=8 \text{ TeV}$ in the lepton-plus-jets channel with ATLAS. European Physical Journal C, 2017, 77, 264.	3.9	37
104	Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	37
105	Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017.	1.2	37
106	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb^{-1} of $\sqrt{s}=13 \text{ TeV}$ pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	37
107	Search for pair production of heavy vector-like quarks decaying to high-p T W bosons and b quarks in the lepton-plus-jets final state in pp collisions at $s = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	36
108	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s}=13 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	36

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109	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.	3.9	36
110	Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector. European Physical Journal C, 2017, 77, 580.	3.9	35
111	Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 91-113.	3.9	35
112	Search for long-lived particles produced in pp collisions at $s=13$ TeV that decay into displaced hadronic jets in the ATLAS muon spectrometer. Physical Review D, 2019, 99, .	4.7	35
113	Measurements of top-quark pair differential and double-differential cross-sections in the $t\bar{t}+jets$ channel with pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	34
114	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
115	Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at $s=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	33
116	Measurements of $\tilde{\chi}(2S)$ and $\tilde{\chi}(3872) \rightarrow \tilde{\chi} + \tilde{\chi}$ production in pp collisions at $s=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	33
117	Measurement of the Soft Drop Jet Mass in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. Physical Review Letters, 2018, 121, 092001.	7.8	33
118	Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	33
119	Determination of the strong coupling constant α_s from transverse energy correlations in multijet events at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 1.	3.9	32
120	Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 1.	4.7	32
121	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.	3.9	32
122	Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 565.	3.9	31
123	Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
124	Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb $^{-1}$ of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
125	Search for W^+W^-/ZZ resonance production in $\tilde{g}\tilde{g}$ 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
126	Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	31

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127	Search for light resonances decaying to boosted quark pairs and produced in association with a photon or a jet in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 316-335.	4.1	31
128	Study of hard double-parton scattering in four-jet events in pp collisions at $s = 7 \sqrt{s}=7$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2016, 2016, 1.	4.7	30
129	Charged-particle distributions in pp interactions at $\sqrt{s}=8$ TeV measured with the ATLAS detector. European Physical Journal C, 2016, 76, 403.	3.9	30
130	Searches for the $Z\tilde{\chi}^0_3$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at $s = 13 \sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	30
131	Study of $WW\gamma$ and $WZ\gamma$ production. European Physical Journal C, 2017, 77, 646.	3.9	30
132	Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	30
133	Evidence for $\text{t}\bar{\text{t}}$ 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.	3.9	30
134	A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 pp-collision data with the ATLAS detector. European Physical Journal C, 2017, 77, 26.	3.9	29
135	Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $s = 13 \sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
136	Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
137	Search for heavy vectorlike quarks decaying into hadronic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physical Review D, 2018, 98, 074004.	4.7	29
138	Searches for heavy ZZ and ZW resonances in the $\tilde{a}, \tilde{a}, \tilde{q}\tilde{q}$ and $\tilde{1}/2\tilde{1}/2\tilde{q}\tilde{q}$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
139	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.	3.9	29
140	Measurement of lepton differential distributions and the top quark mass in $\text{t}\bar{\text{t}}$ production. European Physical Journal C, 2017, 77, 804.	3.9	28
141	Measurement of $WW/WZ \rightarrow \ell\ell uq^{\prime}$ production with the hadronically decaying boson reconstructed as one or two jets in pp collisions at $\sqrt{s}=8$ TeV with ATLAS, and constraints on anomalous gauge couplings. European Physical Journal C, 2017, 77, 563.	3.9	28
142	Measurement of the Drell-Yan triple-differential cross section in pp collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	28
143	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow a\tilde{a}^* 4b$ 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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150	Measurements of electroweak W_{jj} production and constraints on anomalous gauge couplings with the ATLAS detector. European Physical Journal C, 2017, 77, 474.	3.9	26
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158	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.	4.1	25
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161	Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2016, 76, 517.	3.9	24
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165	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.	3.9	24
166	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
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171	High-ET isolated-photon plus jets production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Nuclear Physics B, 2017, 918, 257-316.	2.5	22
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174	Measurements of top-quark pair spin correlations in the W^+W^- channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	22
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178	Search for supersymmetry in events with four or more leptons in $\sqrt{s}=13$ TeV pp collisions with ATLAS. Physical Review D, 2018, 98, .	4.7	21
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180	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.	1.5	21

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182	Measurements of top quark spin observables in $t \bar{t} \rightarrow \tau^+ \tau^-$ events using dilepton final states in $s = 8 \sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	20
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184	Search for pair production of Higgsinos in final states with at least three b-tagged jets in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector. Physical Review D, 2018, 98, .	4.7	20
185	Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the ATLAS detector. Physical Review D, 2018, 97, .	4.7	20
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198	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	18

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200	Probing the W tb vertex structure in t-channel single-top-quark production and decay in pp collisions at $s = 8 \sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
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218	Measurement of differential cross sections and W^+/\overline{W}^+ cross-section ratios for W boson production in association with jets at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
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220	Measurement of event-shape observables in $Z \rightarrow e^+e^- \gamma \gamma$ events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 375.	3.9	15
221	Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW \rightarrow e^+e^- \mu^+\mu^-$ with the ATLAS detector at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
222	Search for strong gravity in multijet final states produced in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector at the LHC. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
223	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
224	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
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226	Measurement of charged-particle distributions sensitive to the underlying event in $\sqrt{s}=13$ TeV proton-proton collisions with the ATLAS detector at the LHC. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
227	Studies of $Z\tilde{l}^{\pm}$ production in association with a high-mass dijet system in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
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229	Measurement of the cross section for isolated-photon plus jet production in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 578-602.	4.7	14
230	Measurement of VH , $H \rightarrow b\overline{b}$ 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
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233	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
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236	Search for new phenomena with photon+jet events in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
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240	Search for heavy resonances decaying to a photon and a hadronically decaying Z boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	4.7	13
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254	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	3.9	12
255	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
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259	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
260	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, .	4.7	11
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262	Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	4.7	10
263	Measurement of the $Z \rightarrow \mu\mu$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
264	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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266	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W\mu$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
267	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
268	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
269	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
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