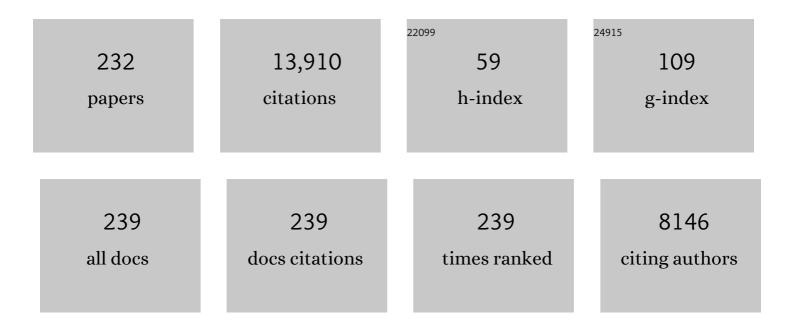
Andrey Karyukhin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	1.4	1,187
2	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	1.4	489
3	Muon reconstruction performance of the ATLAS detector in proton–proton collision data at \$\$sqrt{s}\$\$ s =13ÂTeV. European Physical Journal C, 2016, 76, 292.	1.4	453
4	Improved luminosity determination in pp collisions at \$sqrt {s} = 7 mathrm{TeV}\$ using the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 2518.	1.4	362
5	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	1.4	325
6	Performance of pile-up mitigation techniques for jets in \$\$pp\$\$ p p collisions at \$\$sqrt{s}=8\$\$. European Physical Journal C, 2016, 76, 581.	1.4	298
7	Luminosity determination in pp collisions at \$\$sqrt{s}\$\$ s = 8 TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653.	1.4	279
8	Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at \$\$sqrt{s}=7\$\$ s = 7 and 8ÂTeV in the ATLAS experiment. European Physical Journal C, 2016, 76, 6.	1.4	274
9	Jet energy measurement and its systematic uncertainty in proton–proton collisions at \$\$sqrt{s}=7\$\$ s = 7 ÂTeV with the ATLAS detector. European Physical Journal C, 2015, 75, 17.	1.4	268
10	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	1.4	259
11	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. European Physical Journal C, 2012, 72, 1.	1.4	248

#	Article	IF	CITATIONS
19	Measurement of the top quark-pair production cross section withÂATLAS in pp collisions at \$sqrt{s}=7\$ ÂTeV. European Physical Journal C, 2011, 71, 1.	1.4	146
20	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	1.4	145
21	Precision measurement and interpretation of inclusive \$\$W^+\$\$ W + , \$\$W^-\$\$ W European Physical Journal C, 2017, 77, 367.	1.4	145
22	Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	137
23	Measurement of the Z/\hat{I}^3 * boson transverse momentum distribution in pp collisions at s = 7 \$\$ sqrt{s}=7 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	131
24	ATLAS b-jet identification performance and efficiency measurement with \$\$t{ar{t}}\$\$ events in pp collisions at \$\$sqrt{s}=13\$\$ÂTeV. European Physical Journal C, 2019, 79, 1.	1.4	130
25	Search for charged Higgs bosons decaying via H ± → ï"ν in \$ toverline t \$ events using pp collision d sqrt {s} = 7;TeV \$ with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	ata at \$ 1.6	126
26	Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.	1.4	121

#	Article	IF	CITATIONS
37	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	1.4	93
38	Study of ï€â^'N→î·ï€â^'N and ï€â^'N→î•′ï€â^'N reactions at 37 GeV/c. Physics Letters, Section B: Nuclear, Eleme Particle and High-Energy Physics, 1993, 313, 276-282.	entary 1.5	92
39	Search for the b b \hat{A}^- \$\$ boverline{b} \$\$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	89
40	Jet mass and substructure of inclusive jets in \$ sqrt {s} = 7;{ext{TeV}} \$ pp collisions with the ATLAS experiment. Journal of High Energy Physics, 2012, 2012, 1.	1.6	88
41	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in \$ sqrt{s} \$ = 8 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	88
42	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
43	Search for dark matter at \$\$sqrt{s}=13~mathrm{TeV}\$\$ s = 13 TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. European Physical Journal C, 2017, 77, 393.	1.4	80
44	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton–proton collision data at \$\$sqrt{s} = 13\$\$Â\$\$ext {TeV}\$\$. European Physical Journal C, 2019, 79, 1.	1.4	77
45	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	1.4	75
46	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at \$sqrt{s}=7mbox{~TeV}\$ with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	73
47	Measurement of the production cross section of jets in association with a Z boson in pp collisions at \$ sqrt{s}=7 \$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
48	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at \$ sqrt{s}=8 \$ TeV proton-proton collisions using the ATLAS experiment. Journal of High Energy Physics, 2013, 2013, 1.	1.6	71
49	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton–proton collisions at the LHC. European Physical Journal C, 2017, 77, 332.	1.4	71
50	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at \$\$sqrt{s}=8\$\$ s = 8 \$\$,hbox {TeV}\$\$ TeV. European Physical Journal C, 2015, 75, 303.	1.4	70
51	Measurement of the W → ℓν and Z/γ * → ℓℓ production cross sections in proton-proton collisions at \$ s = 7;{ext{TeV}} \$ with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1.	qrt {s} 1.6	64
52	Measurement of isolated-photon pair production in pp collisions at \$ sqrt{s}=7;TeV \$ with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	64
53	Evidence for the H → b b Â ⁻ \$\$ Ho boverline{b} \$\$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	64
54	Jet energy scale and resolution measured in proton–proton collisions at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	64

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55	Readiness of the ATLAS liquid argon calorimeter forÂLHCÂcollisions. European Physical Journal C, 2010, 70, 723-753.	1.4	61
56	Measurement of ZZ production in pp collisions at \$ sqrt{s}=7 \$ TeV and limits on anomalous ZZZ and ZZÎ ³ couplings with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	61
57	Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at \$sqrt{s} = 7 mbox{TeV}\$. European Physical Journal C, 2013, 73, 1.	1.4	61
58	Prompt and non-prompt \$\$J/psi \$\$ J / Ï^ and \$\$psi (2mathrm {S})\$\$ Ï^ (2 S) suppression at high transverse momentum in \$\$5.02~mathrm {TeV}\$\$ 5.02 TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	1.4	61
59	Measurement of W ± Z production in proton-proton collisions at \$sqrt{s}=7~mbox{TeV}\$ with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	1.4	59
60	Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at \$ sqrt{s}=7 \$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	59
61	Search for direct top-squark pair production in final states with two leptons in pp collisions at \$ sqrt{s} \$ = 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	59
62	Measurement of the W boson polarization in top quark decays with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	57
63	Search for direct top squark pair production in events with a \$\$Z\$\$ Z boson, \$\$b\$\$ b -jets and missing transverse momentum in \$\$sqrt{s}=8\$\$ s = 8 TeV \$\$pp\$\$ p p collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 2883.	1.4	55
64	Search for pair production of Higgs bosons in the \$\$ boverline{b}boverline{b} \$\$ final state using proton-proton collisions at \$\$ sqrt{s}=13 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	55
65	Search for high-mass resonances decaying to dilepton final states in pp collisions at \$ sqrt{s}=7 \$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	54
66	Study of resonance production in diffractive reaction Ï€â^'A → Ï€+Ï€â^'Ï€â^'A. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 356, 595-600.	1.5	53
67	Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fbâ^'1 of \$ sqrt {s} = 7;TeV \$ proton-proton collisions. Journal of High Energy Physics, 2012, 2012, 1.	1.6	53
68	Measurement of the cross-section for W boson production in association with b-jets in pp collisions at \$ sqrt{s}=7 \$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	53
69	Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at \$ sqrt{s}=7 \$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	52
70	Performance of jet substructure techniques for large-R jets in proton-proton collisions at \$ sqrt{s}=7 \$ TeV using the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	52
71	Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons. European Physical Journal C, 2010, 70, 755-785.	1.4	51
72	Measurement of the top quark mass with the template method in the \$tar{t} omathrm{lepton}+mathrm{jets}\$ channel using ATLAS data. European Physical Journal C, 2012, 72, 2046.	1.4	51

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73	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295.	1.4	50
74	Search for direct top squark pair production in final states with two leptons in \$\$sqrt{s} = 13\$\$ s = 13 TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898.	1.4	50
75	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
76	Search for pair production of massive particles decaying into three quarks with the ATLAS detector in \$ sqrt{s}=7;mathrm{TeV} \$ pp collisions at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	48
77	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.	1.4	48
78	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fbâ^1 of \$\$ sqrt{s}=13 \$\$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	48
79	Measurement of the Higgs boson coupling properties in the H → ZZâ^— → 4â"" decay channel at \$\$ sqrt{s}=13 TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	\$\$ 1.6	46
80	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. European Physical Journal C, 2019, 79, 1.	1.4	46
81	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, 1.	1.6	46
82	Measurement of the cross section for top-quark pair production in pp collisions at \$sqrt {s} = {7},{ext{TeV}}\$ with the ATLAS detector using final states with two high-p T leptons. Journal of High Energy Physics, 2012, 2012, 1.	1.6	45
83	Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton–proton collisions at \$sqrt{s} = 7 mbox{TeV}\$. European Physical Journal C, 2013, 73, 1.	1.4	45
84	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 1.	1.4	45
85	Measurement of the \$tar{t}\$ production cross section in the tau + jets channel using the ATLAS detector. European Physical Journal C, 2013, 73, 2328.	1.4	45
86	Search for supersymmetry at \$sqrt{s}\$ = 8 TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	45
87	Search for the Standard Model Higgs boson in the H â†' ï" + ï" â'' decay mode in \$ sqrt {s} = 7,{mathrm{ \$ pp collisions with ATLAS. Journal of High Energy Physics, 2012, 2012, 1.	[TeV}}	43
88	Measurement of the top quark pair production charge asymmetry in proton-proton collisions at \$ sqrt{s} \$ = 7 TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	42
89	Performance of top-quark and \$\$varvec{W}\$\$ W -boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1.	1.4	42
90	Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in \$sqrt{s}=7~mbox{TeV}\$ proton–proton collisions with the ATLAS experiment. European Physical Journal C, 2011, 71, 1.	1.4	41

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91	Higgs boson production cross-section measurements and their EFT interpretation in the \$\$4ell \$\$ decay channel at \$\$sqrt{s}=\$\$13ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	41
92	Limits on the production of the standard model Higgs boson in pp collisions at \$sqrt{s} = 7\$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	40
93	A search for \$ toverline t \$ resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at \$ sqrt {s} = 7 \$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	40
94	Measurements of b-jet tagging efficiency with the ATLAS detector using \$\$ toverline{t} \$\$ events at \$\$ sqrt{s}=13 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	40
95	Search for heavy resonances decaying into a pair of Z bosons in the \$\$ell ^+ell ^-ell '^+ell '^-\$\$ and \$\$ell ^+ell ^-u {{ar{u }}}\$\$ 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, 1.	1.4	40
96	Measurements of WH and ZH production in the \$\$H ightarrow bar{b}\$\$ decay channel in pp collisions at \$\$13,ext {Te}ext {V}\$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	38
97	Search for second generation scalar leptoquarks in pp collisions at \$sqrt{s}=7~mbox{TeV}\$ with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	1.4	37
98	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
99	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fbâ^'1 of \$\$ sqrt{s} \$\$ = 13 TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	37
100	ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at \$sqrt{s} = 7 mathrm{TeV}\$. European Physical Journal C, 2012, 72, 1.	1.4	36
101	Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at \$ sqrt {s} = {7};{ext{TeV}} \$ with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	36
102	Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at \$sqrt{s} = 7 mbox{TeV}\$ with the ATLAS experiment. European Physical Journal C, 2012, 72, 1.	1.4	36
103	Measurement of flow harmonics correlations with mean transverse momentum in lead–lead and proton–lead collisions atÂ\$\$sqrt{s_{mathrm{NN}}} = 5.02~hbox {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	36
104	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
105	Search for a scalar partner of the top quark in the all-hadronic \$\$t{ar{t}}\$\$ plus missing transverse momentum final state at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	36
106	Measurement of the production cross section of prompt J/Ĩ^ mesons in association with a W ± boson in pp collisions at \$ sqrt{s} \$ = 7 TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	35
107	Measurement of the inclusive jet cross-section in proton-proton collisions at s = 7 \$\$ sqrt{s}=7 \$\$ TeV using 4.5 fbâ^'1 of data with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	35
108	A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at \$ sqrt{s}=7;TeV \$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	34

#	Article	IF	CITATIONS
109	Multi-channel search for squarks and gluinos in \$sqrt{s}=7mbox{ TeV}\$ pp collisions with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 2362.	1.4	34
110	Measurements of top-quark pair differential and double-differential cross-sections in the \$\$ell \$\$+jets channel with pp collisions at \$\$sqrt{s}=13\$\$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	34
111	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\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	34
112	Inclusive search for same-sign dilepton signatures in pp collisions at \$ sqrt {s} = 7 \$ TeV with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	1.6	33
113	Measurement of jet shapes in top-quark pair events at \$sqrt{s} = 7 mbox{TeV}\$ using the ATLAS detector. European Physical Journal C, 2013, 73, 2676.	1.4	33
114	Search for third generation scalar leptoquarks in pp collisions at \$ sqrt{s}=7 \$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	32
115	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4\$\$ell \$\$ decay channel at \$\$sqrt{s}\$\$ = 13 TeV. European Physical Journal C, 2020, 80, 1.	1.4	32
116	Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in \$sqrt{s}=7 mathrm{TeV}\$ proton–proton collisions. European Physical Journal C, 2012, 72, 1.	1.4	31
117	Measurement of the differential cross-section of B + meson production in pp collisions at \$ sqrt{s}=7 \$ TeV at ATLAS. Journal of High Energy Physics, 2013, 2013, 1.	1.6	31
118	Measurement of inclusive and differential cross sections in the H → ZZ * → 4â,," decay channel in pp collisions at s = 13 \$\$ sqrt{s}=13 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
119	Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at \$\$ sqrt{s}=13 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	30
120	Evidence for \$\$tar{t}tar{t}\$\$ production in the multilepton final state in proton–proton collisions at \$\$sqrt{s}=13\$\$Â\$\$ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	30
121	Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	29
122	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.	1.4	29
123	Search for heavy diboson resonances in semileptonic final states in pp collisions at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	29
124	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.	1.6	28
125	Search for chargino–neutralino pair production in final states with three leptons and missing transverse momentum in \$\$sqrt{s} = 13\$\$ÂTeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	28
126	Investigation of hybrid states in the VES experiment at the Institute for High Energy Physics (Protvino). Physics of Atomic Nuclei, 2005, 68, 359-371.	0.1	27

8

#	Article	IF	CITATIONS
127	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a ï"-lepton in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
128	Study of the reactionÏ€ â^' p→ωωn atp Ï€ â^' = 36 GeV/c. Zeitschrift Für Physik C-Particles and Fields, 1992, 367-369.	54. 1.5	26
129	Measurements of electroweak \$\$Wjj \$\$ W j j production and constraints on anomalous gauge couplings with the ATLAS detector. European Physical Journal C, 2017, 77, 474.	1.4	26
130	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\$\$Â\$\$ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	26
131	A search for \$tar{t}\$ resonances with the ATLAS detector in 2.05 fbâ^1 of proton-proton collisions at \$sqrt{s} = 7~mathrm{TeV}\$. European Physical Journal C, 2012, 72, 2083.	1.4	25
132	Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	1.4	25
133	Measurement of the low-mass Drell-Yan differential cross section at s \$\$ sqrt{s} \$\$ = 7 TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	25
134	Measurement of the cross-section and charge asymmetry of W bosons produced in proton–proton collisions at \$\$sqrt{s}=8~ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	24
135	Measurement of fiducial and differential \$\$W^+W^-\$\$ production cross-sections at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	24
136	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
137	Commissioning of the ATLAS Muon Spectrometer withÂcosmicÂrays. European Physical Journal C, 2010, 70, 875-916.	1.4	23
138	Measurement of the inclusive jet cross-sections in proton-proton collisions at s = 8 \$\$ sqrt{s}=8 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
139	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{mathrm{s}} \$\$ = 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	23
140	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	1.3	23
141	Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at \$sqrt{mathbf{s}}=7 mathrm{TeV}\$. European Physical Journal C, 2012, 72, 1.	1.4	22
142	Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at \$ sqrt{s} \$ = 8 TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	22
143	Measurements of top-quark pair spin correlations in the \$\$emu \$\$ channel at \$\$sqrt{s} = 13\$\$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	22
144	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, 1.	1.6	22

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145	Measurement of τ polarization in W→τν decays with the ATLAS detector in pp collisions at \$sqrt{s} =7~mathrm{TeV}\$. European Physical Journal C, 2012, 72, 2062.	1.4	21
146	The performance of the jet trigger for the ATLAS detector during 2011 data taking. European Physical Journal C, 2016, 76, 526.	1.4	21
147	Search for the Standard Model Higgs boson decaying into b b Â⁻ \$\$ boverline{b} \$\$ produced in association with top quarks decaying hadronically in pp collisions at s = 8 \$\$ sqrt{s}=8 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	21
148	Search for charged Higgs bosons through the violation of lepton universality in \$ toverline{t} \$ events using pp collision data at \$ sqrt{s}=7 \$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2013, 2013, 1.	1.6	19
149	Measurement of k T splitting scales in W→â,,"ν events at \$sqrt{s} = 7 mathrm{TeV}\$ with the ATLAS detector. European Physical Journal C, 2013, 73, 2432.	1.4	19
150	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fbâ^'1 of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	1.6	19
151	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nbâ^'1 of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	19
152	Performance of the ATLAS detector using first collision data. Journal of High Energy Physics, 2010, 2010, 1.	1.6	18
153	Search for an excess of events with an identical flavour lepton pair and significant missing transverse momentum in \$sqrt{s}=7\$ TeV proton–proton collisions with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	18
154	Search for dark matter in association with an energetic photon in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	18
155	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton–proton collisions at \$\$sqrt{s}\$\$ = 13ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	18
156	Search for new phenomena in final states with b-jets and missing transverse momentum in \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	18
157	Studies of the performance of the ATLAS detector using cosmic-ray muons. European Physical Journal C, 2011, 71, 1.	1.4	17
158	Search for anomalous production of prompt like-sign lepton pairs at \$ sqrt{s}=7;mathrm{TeV} \$ with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	17
159	Measurement of the top quark charge in pp collisions at \$ sqrt{s}=7 \$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	17
160	Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at \$\$ sqrt{s}=13 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
161	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
162	Search for the HH → \$\$ boverline{b}boverline{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

#	Article	IF	CITATIONS
163	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at \$\$ sqrt{s} = 13,{ext {TeV}} \$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	17
164	Study of the decayf 1(1285)??0(770)?. Zeitschrift Für Physik C-Particles and Fields, 1995, 66, 71-76.	1.5	16
165	Search for a fermiophobic Higgs boson in the diphoton decay channel with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	1.4	16
166	Measurement of differential cross sections and W+/Wâ^' cross-section ratios for W boson production in association with jets at \$\$ sqrt{s}=8 \$\$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	16
167	Search for diphoton events with large missing transverse energy with 36 pbâ^1 of 7 TeV proton–proton collision data with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	15
168	Measurements of the pseudorapidity dependence of the total transverse energy in proton-proton collisions at \$ sqrt{s}=7 \$ TeV with ATLAS. Journal of High Energy Physics, 2012, 2012, 1.	1.6	15
169	Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	1.4	15
170	Search for direct chargino production in anomaly-mediated supersymmetry breaking models based on a disappearing-track signature in pp collisions at \$ sqrt{s}=7;mathrm{TeV} \$ with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	15
171	Measurement of the flavour composition of dijet events in pp collisions at \$sqrt{s}=7 mbox{TeV}\$ with the ATLAS detector. European Physical Journal C, 2013, 73, 1.	1.4	15
172	Search forWHproduction with a light Higgs boson decaying to prompt electron-jets in proton–proton collisions at \$sqrt {s}=7\$ TeV with the ATLAS detector. New Journal of Physics, 2013, 15, 043009.	1.2	15
173	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13ÂTeV proton–proton collisions. European Physical Journal C, 2021, 81, 1.	1.4	15
174	Determination of jet calibration and energy resolution in proton–proton collisions at \$\$sqrt{s} = 8~hbox {TeV}\$\$ using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	15
175	Measurement of VH, \$\$ mathrm{H}o 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, 1.	1.6	14
176	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
177	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at \$\$sqrt{s}=13,ext {TeV}\$\$. European Physical Journal C, 2021, 81, 1.	1.4	14
178	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, 1.	1.6	14
179	Search for \$\$ toverline{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
180	Measurement of the c-jet mistagging efficiency in \$\$tar{t}\$\$Âevents using pp collision data at \$\$sqrt{s}=13\$\$Â\$\$ext {TeV}\$\$ collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	1.4	14

#	Article	IF	CITATIONS
181	Search for R-parity-violating supersymmetry in events with four or more leptons in \$ sqrt{s}=7;mathrm{TeV} \$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	13
182	Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at \$sqrt{s} = 7~mathrm{TeV}\$. European Physical Journal C, 2012, 72, 1.	1.4	13
183	Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 7 TeV proton-proton collision data with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	1.4	13
184	Search for lepton flavour violation in the $e^{1}/4$ continuum with the ATLAS detector in $sqrt{s} = 7 - mbox{TeV} pp collisions at the LHC. European Physical Journal C, 2012, 72, 2040.$	1.4	13
185	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
186	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
187	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton–proton collisions at ATLAS. European Physical Journal C, 2021, 81, 1.	1.4	12
188	Search for supersymmetry in events with four or more charged leptons in 139 fbâ îl of \$\$ sqrt{s} \$\$ = 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	12
189	Measurements of the inclusive and differential production cross sections of a top-quark–antiquark pair in association with a ZÂboson at \$\$sqrt{s} = 13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	12
190	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
191	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	1.4	12
192	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at \$\$sqrt{s} = 7\$\$, 8 and 13ÂTeV. European Physical Journal C, 2022, 82, 1.	1.4	12
193	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
194	Determination of the parton distribution functions of the proton from ATLAS measurements of differential W± and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	1.6	10
195	Measurement of the t\$\$ overline{t} \$\$t\$\$ overline{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
196	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fbâ''1 of pp collision data at \$\$ sqrt{s} \$\$ = 13 TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	10
197	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
198	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton–proton collisions at 8ÂTeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.	1.4	9

#	Article	IF	CITATIONS
199	Search for dark matter produced in association with a single top quark in \$\$sqrt{s}=13\$\$ÂTeV \$\$pp\$\$ collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	9
200	Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in s = 13 \$\$ sqrt{s}=13 \$\$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	8
201	Measurements of W+Wâ^'+ ≥ 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
202	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
203	Reconstruction and identification of boosted di-Ï,, 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
204	Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at 13Â\$\$ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2022, 82, 1.	1.4	8
205	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using \$\$sqrt{s} = 13hbox { TeV}\$\$ proton–proton collision data. European Physical Journal C, 2021, 81, 1.	1.4	7
206	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	1.4	7
207	Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2022, 82, .	1.4	7
208	Observation of the decaya 2 â^' (1320)→π â^' Î∙′. Zeitschrift Für Physik C-Particles and Fields, 1992, 54, 235	-2138.	6
209	Study of the reaction ï€â^' A → K+Kâ^'ï€â^'A at 37 GeV/c. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 337, 219-225.	1.5	6
210	Radiation hardness study on molded scintillation tiles and wavelength shifting fibers. Nuclear Instruments & Methods in Physics Research B, 1996, 117, 415-420.	0.6	6
211	Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at \$\$ sqrt{s} \$\$ = 13 and 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	6
212	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
213	Performance of the ATLAS Level-1 topological trigger in RunÂ2. European Physical Journal C, 2022, 82, 1.	1.4	6
214	Measurement of form factors for the decay η′ Ã¥ ηπ â^' Ï€ +. Physics of Atomic Nuclei, 2005, 68, 372-377.	0.1	5
215	Resonances in the ωω system. Physics of Atomic Nuclei, 2006, 69, 690-698.	0.1	5
216	A search for the decays of stopped long-lived particles at \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5

#	Article	IF	CITATIONS
217	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
218	The ATLAS inner detector trigger performance in pp collisions at 13ÂTeV during LHC Run 2. European Physical Journal C, 2022, 82, 1.	1.4	5
219	Investigation of the reaction Ï€ â^' p → Î∙′π 0 n at the VES spectrometer. Physics of Atomic Nuclei, 2004, 67, 1408-1415.	0.1	4
220	Measurement of hadronic event shapes in high-pT multijet final states at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
221	Search for top squarks in events with a Higgs or Z boson using 139Âfb\$\$^{-1}\$\$ of pp collision data at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	1.4	4
222	Measurement of the energy response of the ATLASÂcalorimeter to chargedÂpions from \$\$W^{pm }ightarrow au ^{pm }(ightarrow pi ^{pm }u _{au })u _{au }\$\$ events in RunÂ2 data. European Physical Journal C, 2022, 82, 1.	1.4	4
223	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
224	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
225	Measurement of single top-quark production in association with a W boson in the single-lepton channel at \$\$sqrt{s} = 8,ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	3
226	Measurement of the inclusive jet cross-section in proton-proton collisions at (sqrt{s}=7) TeV using 4.5 fbâ^'1 of data with the ATLAS detector. , 2015, 2015, 1.		3
227	Measurement of b-quark fragmentation properties in jets using the decay B± → J/Ï`K± in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
228	Search for exotic decays of the Higgs boson into b\$\$ overline{b} \$\$ and missing transverse momentum in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
229	Measurement of the energy asymmetry in \$\$t{ar{t}}j\$\$ production at \$\$13,\$\$TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, .	1.4	2
230	Study of the reaction Ï€â^' p→ηâ€2ηâ€2n. Zeitschrift Für Physik C-Particles and Fields, 1993, 57, 13-15.	1.5	1
231	Latest results from the VES experiment. Il Nuovo Cimento A, 1994, 107, 1941-1951.	0.2	1
232	Study of meson systems with isospin I = 3/2 at the VES setup. Physics of Atomic Nuclei, 2013, 76, 1512-1519.	0.1	0