

Michael Tuts

List of Publications by Citations

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177
papers

6,318
citations

39
h-index

75
g-index

192
ext. papers

7,347
ext. citations

4.7
avg, IF

1.8
L-index

#	Paper	IF	Citations
177	The ATLAS Simulation Infrastructure. <i>European Physical Journal C</i> , 2010 , 70, 823-874	4.2	817
176	Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , 2017 , 77, 317	4.2	272
175	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at [Formula: see text]=13 TeV. <i>European Physical Journal C</i> , 2016 , 76, 292	4.2	263
174	Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	232
173	Jet energy measurement with the ATLAS detector in proton-proton collisions at ($\sqrt{s}=7 \text{ TeV}$). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	209
172	Jet energy measurement and its systematic uncertainty in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 17	4.2	194
171	Luminosity determination in collisions at [Formula: see text] = 8 TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 653	4.2	188
170	Measurements of the Higgs boson production and decay rates and coupling strengths using collision data at [Formula: see text] and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , 2016 , 76, 6	4.2	185
169	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , 2017 , 77, 490	4.2	177
168	Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014 , 74, 3130	4.2	166
167	Jet energy resolution in proton-proton collisions at [Formula: see text] recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2306	4.2	153
166	Performance of pile-up mitigation techniques for jets in [Formula: see text] collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 581	4.2	148
165	Measurement of the top quark-pair production cross section with ATLAS in pp collisions at ($\sqrt{s}=7 \text{ TeV}$). <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	138
164	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 476	4.2	104
163	Observation of the ??? at the Cornell Electron Storage Ring. <i>Physical Review Letters</i> , 1980 , 45, 222-225	7.4	104
162	Semileptonic decay of the B meson. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983 , 130, 444-448	4.2	93
161	Observation of ?, ??, and ??? at the Cornell Electron Storage Ring. <i>Physical Review Letters</i> , 1980 , 44, 1111-1114	7.4	88

160	Measurement of the Z/ Γ boson transverse momentum distribution in pp collisions at ($\sqrt{s}=7$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	79
159	Observation of the Lowest P-Wave bb̄ Bound States. <i>Physical Review Letters</i> , 1983 , 51, 160-163	7.4	72
158	Masses, widths, and leptonic widths of the higher upsilon resonances. <i>Physical Review Letters</i> , 1985 , 54, 377-380	7.4	68
157	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 903	4.2	66
156	Search for the (b overline{b}) decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	64
155	Precision measurement and interpretation of inclusive , and production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 367	4.2	56
154	Observation of P-Wave bb̄ Bound States. <i>Physical Review Letters</i> , 1982 , 49, 1612-1616	7.4	56
153	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at ($\sqrt{s}=7$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	53
152	Search for dark matter at [Formula: see text] in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 393	4.2	52
151	Hyperfine splitting of B mesons and Bs production at the Upsilon (5S). <i>Physical Review Letters</i> , 1990 , 65, 2947-2950	7.4	52
150	Evidence for the (H to b overline{b}) decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	50
149	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 303	4.2	49
148	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 538	4.2	48
147	Observation of B production in e+e- interactions above the b-flavor threshold. <i>Physical Review Letters</i> , 1985 , 55, 36-39	7.4	46
146	Performance of jet substructure techniques for large-R jets in proton-proton collisions at ($\sqrt{s}=7$) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	43
145	ATLAS b-jet identification performance and efficiency measurement with (t{bar{t}}) events in pp collisions at ($\sqrt{s}=13$) TeV. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	43
144	Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , 2017 , 77, 466	4.2	42
143	Search for Structure in (e+e- hadrons) between s=10.34 and 11.6 GeV. <i>Physical Review Letters</i> , 1982 , 48, 906-910	7.4	42

142	Search for direct top squark pair production in events with a [Formula: see text] boson, [Formula: see text]-jets and missing transverse momentum in [Formula: see text] TeV [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 2883	4.2	41
141	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	41
140	Observation of the Transition ??->?e+e- Physical Review Letters, 1981 , 46, 1115-1118	7.4	41
139	Upper limit for axion production in radiative ? decay. <i>Physical Review D</i> , 1982 , 26, 717-719	4.9	40
138	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. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	39
137	Search for light short-lived particles in radiative upsilon decays. <i>Physical Review Letters</i> , 1986 , 56, 2672-2675	5.4	39
136	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at (sqrt{s} = 13) (text {TeV}). <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	37
135	Limits on Higgs bosons, scalar-quarkonia, and eta b from radiative upsilon decays. <i>Physical Review D</i> , 1987 , 35, 2883-2886	4.9	37
134	Measurement of the Higgs boson coupling properties in the H -> ZZ* -> 4l decay channel at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	36
133	Measurement of B-Meson Semileptonic Decay. <i>Physical Review Letters</i> , 1981 , 47, 771-774	7.4	36
132	Evidence for B? Production in the Exclusive Reaction ???->B?->(l or l). <i>Physical Review Letters</i> , 1982 , 49, 1616-1619	7.4	36
131	Observation of direct photons in ? and ?? decays and determination of the QCD scale parameter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 138, 225-229	4.2	35
130	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. <i>European Physical Journal C</i> , 2017 , 77, 673	4.2	33
129	A measurement of the semileptonic decay of B mesons into muons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 141, 271-275	4.2	33
128	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb of (sqrt{s}=13) TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	33
127	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. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	31
126	Constraints on mediator-based dark matter and scalar dark energy models using (sqrt{s}) = 13 TeV pp collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	31
125	Measurements of b-jet tagging efficiency with the ATLAS detector using (toverline{t}) events at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	31

124	A study of hadronic decays of the ???. <i>Nuclear Physics B</i> , 1984 , 242, 31-50	2.8	30
123	Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	30
122	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. <i>European Physical Journal C</i> , 2017 , 77, 332	4.2	29
121	Observation of B production in the exclusive reaction ??-> B ->??->??+eBr?? <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983 , 130, 439-443	4.2	29
120	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. <i>European Physical Journal C</i> , 2016 , 76, 295	4.2	28
119	Beam tests of the D??urium liquid argon end calorimeters. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1993 , 324, 53-76	1.2	28
118	Measurement of the inclusive jet cross-section in proton-proton collisions at ($\sqrt{s}=7$) TeV using 4.5 fb^{-1} of data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	27
117	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	26
116	Test of CP invariance in vector-boson fusion production of the Higgs boson using the method in the ditau decay channel with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 658	4.2	26
115	Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , 2019 , 14, P03017-P03017	1	25
114	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. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	25
113	Hadron and electron response of uranium/liquid argon calorimeter modules for the D0 detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989 , 280, 36-44	1.2	24
112	Search for light gluinos. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1987 , 186, 233-236	4.2	24
111	Prompt and non-prompt and suppression at high transverse momentum in Pb+Pb collisions with the ATLAS experiment. <i>European Physical Journal C</i> , 2018 , 78, 762	4.2	23
110	A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 -collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 26	4.2	22
109	Search for Higgs scalars in upsilon decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 139, 332-336	4.2	22
108	E1 Transitions from the Upsilon " State and the Fine Structure of the chi bMS States. <i>Physical Review Letters</i> , 1991 , 66, 3113-3116	7.4	21
107	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. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	21

106	Hadron and electron response in a uranium liquid argon calorimeter from 10 to 150 GeV. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1988 , 269, 492-506	1.2	20
105	Performance of top-quark and ($\text{varvec}\{\text{W}\}$)-boson tagging with ATLAS in Run 2 of the LHC. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	19
104	Search for direct top squark pair production in final states with two leptons in TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 898	4.2	19
103	Observation of cascade decays of the ???. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1982 , 118, 453-457	4.2	19
102	B semileptonic decays at the Upsilon (4S) and the Upsilon (5S). <i>Physical Review Letters</i> , 1991 , 66, 2436-2439	4.2	18
101	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. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	17
100	Search for the Standard Model Higgs boson decaying into ($b\bar{b}$) produced in association with top quarks decaying hadronically in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	16
99	Measurement of the Drell-Yan triple-differential cross section in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	16
98	The performance of the jet trigger for the ATLAS detector during 2011 data taking. <i>European Physical Journal C</i> , 2016 , 76, 526	4.2	16
97	Measurement of fiducial and differential (W^+W^-) production cross-sections at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	16
96	Searches for scalar leptoquarks and differential cross-section measurements in dilepton dijet events in proton-proton collisions at a centre-of-mass energy of ($\text{varvec}\{\sqrt{s}\} = 13$) TeV with the ATLAS experiment. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	15
95	Design, construction, and performance of the electromagnetic module of the Delphi calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1993 , 325, 393-416	1.2	15
94	Measurement of the branching ratio for decay of Upsilon states to micro+ micro-. <i>Physical Review Letters</i> , 1989 , 62, 2077-2079	7.4	15
93	Measurements of electroweak [Formula: see text] production and constraints on anomalous gauge couplings with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 474	4.2	14
92	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. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	14
91	bb-bar spectroscopy from the Upsilon (3S) state. <i>Physical Review D</i> , 1992 , 46, 1928-1940	4.9	13
90	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. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	13
89	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at ($\sqrt{s}=13$) TeV. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	13

88	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. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	13
87	Higgs boson production cross-section measurements and their EFT interpretation in the (4ell) decay channel at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	12
86	Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12
85	Measurement of the inclusive jet cross-sections in proton-proton collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	12
84	Sequential Decays of the Upsilon ". <i>Physical Review Letters</i> , 1991 , 66, 1563-1566	7.4	12
83	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at ($\sqrt{s}=8$ ~TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	11
82	Study of Ξ transitions from the $\Xi(3S)$ state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993 , 301, 307-312	4.2	11
81	Jet energy scale and resolution measured in proton-proton collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	11
80	Thrust distribution and decays of the ? bound states. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1982 , 114, 277-281	4.2	10
79	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
78	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4(ell) decay channel at (\sqrt{s}) = 13 TeV. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	9
77	Measurement of VH, ($\mathrm{H} \rightarrow b\bar{b}$) production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
76	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in (\sqrt{s}) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
75	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. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
74	Measurement of splitting scales in \rightarrow events at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2432	4.2	8
73	Evidence for $(t\bar{t})t\bar{t}$ production in the multilepton final state in proton-proton collisions at ($\sqrt{s}=13$) (TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8
72	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
71	Measurements of top-quark pair spin correlations in the (emu) channel at ($\sqrt{s}=13$) TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8

70	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
69	Search for heavy resonances decaying into a pair of Z bosons in the ($\ell^+\ell^- \rightarrow \ell^+\ell^- M+M^-$) and ($\ell^+\ell^- \rightarrow \ell^+\nu \bar{\nu}$) final states using 139 (fb^{-1}) of proton-proton collisions at (\sqrt{s} = 13,)TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	8
68	Search for charged Higgs bosons decaying into a top quark and a bottom quark at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
67	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
66	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. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
65	Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in (\sqrt{s} =13) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
64	Search for $B^* \rightarrow B^+$ and limits on the B-meson mass. <i>Physical Review D</i> , 1982 , 26, 720-722	4.9	7
63	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at (\sqrt{s} = 13,{text {TeV}}) with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
62	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. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
61	Measurements of WH and ZH production in the ($H \rightarrow b\bar{b}$) decay channel in pp collisions at (13,{text {TeV}}) with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
60	Radiation damage studies of cerium-doped radiation-resistant lead glass detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1985 , 238, 333-340	1.2	6
59	Inclusive K0 production in e+ e- annihilation at the upsilon resonances. <i>Nuclear Physics B</i> , 1982 , 206, 1-11	2.8	6
58	Search for ($t\bar{t}$) resonances in fully hadronic final states in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	6
57	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
56	Search for new phenomena in final states with b-jets and missing transverse momentum in (\sqrt{s}) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
55	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a ℓ -lepton in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
54	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. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	5
53	Proton-proton inelastic scattering at 0.5 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1976 , 65, 177-180	4.2	5

52	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. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
51	Search for the $H\bar{H} \rightarrow (b\bar{b})$ process via vector-boson fusion production using proton-proton collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
50	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. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
49	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb fb^{-1} of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	5
48	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. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	5
47	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	5
46	Search for dark matter in association with an energetic photon in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	5
45	CUSB-II: a high precision electromagnetic spectrometer. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1991 , 309, 450-464 ^{1,2}	4	
44	Search for direct photons in Upsilon (4S) decays. <i>Physical Review Letters</i> , 1990 , 65, 2749-2752	7.4	4
43	Search for heavy diboson resonances in semileptonic final states in pp collisions at (\sqrt{s})=13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
42	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
41	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. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	4
40	Search for dark matter produced in association with a single top quark in (\sqrt{s})=13 TeV (pp) collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	4
39	Measurement of the B^* cross section at. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 273, 177-180	4.2	3
38	Measurement of the branching ratio for Upsilon "→ micro micro. <i>Physical Review D</i> , 1987 , 35, 2265-2268	4.9	3
37	Determination of jet calibration and energy resolution in proton-proton collisions at (\sqrt{s}) = 8~TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	3
36	Measurement of the inclusive jet cross-section in proton-proton collisions at (\sqrt{s})=7 TeV using 4.5 fb fb^{-1} of data with the ATLAS detector 2015 , 2015, 1		3
35	Reconstruction and identification of boosted di- t -systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	3

34	Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	3
33	Measurement of hadronic event shapes in high-pT multijet final states at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	3
32	Search for $B^* \rightarrow B + l \bar{n} \nu$ decays and the $B^* B$ mass difference. <i>Physical Review D</i> , 1984 , 30, 1985-1987	4.9	2
31	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using ($\sqrt{s} = 13\text{TeV}$) proton-proton collision data. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	2
30	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
29	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	2
28	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
27	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
26	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. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	1
25	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
24	Determination of the parton distribution functions of the proton from ATLAS measurements of differential W^\pm and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
23	A search for the decays of stopped long-lived particles at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
22	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. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
21	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. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
20	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
19	Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13\text{TeV}$ pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
18	Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
17	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7\text{, 8 and }13\text{TeV}$. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	1

LIST OF PUBLICATIONS

16	Performance of the ATLAS Level-1 topological trigger in Run2. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	O
15	Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	O
14	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 13TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	O
13	Measurement of the $t(\bar{t})$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
12	Measurements of $W+W^-$ jet production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
11	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $(\sqrt{s}=13,\text{TeV})$. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	O
10	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
9	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. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	O
8	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. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	O
7	AtFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , 2022 , 6, 1	6	O
6	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm}\rightarrow\tau^{\pm}\rightarrow\pi^{\pm}\nu_{\tau}$ events in Run2 data. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	O
5	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
4	Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
3	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
2	Measurement of b -quark fragmentation properties in jets using the decay $B_s \rightarrow J/\psi \ell\nu$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
1	The ATLAS inner detector trigger performance in pp collisions at 13TeV during LHC Run 2. <i>European Physical Journal C</i> , 2022 , 82, 1	4.2	