

# Gideon Bella

## List of Publications by Citations

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723  
papers

31,387  
citations

73  
h-index

148  
g-index

761  
ext. papers

36,267  
ext. citations

4.8  
avg, IF

3.1  
L-index

#	Paper	IF	Citations
723	Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 1-29	4.2	5271
722	The ATLAS Experiment at the CERN Large Hadron Collider. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08003-S08003	1273	
721	The ATLAS Simulation Infrastructure. <i>European Physical Journal C</i> , <b>2010</b> , 70, 823-874	4.2	817
720	Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , <b>2015</b> , 114, 191803	7.4	709
719	Search for neutral MSSM Higgs bosons at LEP. <i>European Physical Journal C</i> , <b>2006</b> , 47, 547	4.2	496
718	Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	364
717	Improved luminosity determination in collisions at [Formula: see text] using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2518	4.2	276
716	Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , <b>2017</b> , 77, 317	4.2	272
715	Evidence for the spin-0 nature of the Higgs boson using ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 120-144	4.2	267
714	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at [Formula: see text]=13 TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 292	4.2	263
713	Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	232
712	Performance of missing transverse momentum reconstruction in proton-proton collisions at ( $\sqrt{s} = 7 \sim \text{TeV}$ ) with ATLAS. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	217
711	Jet energy measurement with the ATLAS detector in proton-proton collisions at ( $\sqrt{s}=7 \text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	209
710	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 299	4.2	202
709	Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at $\sqrt{s_{NN}}=2.76 \text{ TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 330-348	4.2	200
708	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	199
707	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> , <b>2015</b> , 75, 17	4.2	194

706	Luminosity determination in collisions at [Formula: see text] = 8 TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2016</b> , 76, 653	4.2	188
705	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> , <b>2016</b> , 76, 6	4.2	185
704	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , <b>2017</b> , 77, 490	4.2	177
703	Luminosity determination in pp collisions at ( $\sqrt{s} = 7$ ) TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	167
702	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> , <b>2014</b> , 74, 3130	4.2	166
701	Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 220-241	4.2	165
700	Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2941	4.2	160
699	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	160
698	Jet energy resolution in proton-proton collisions at [Formula: see text] recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2306	4.2	153
697	Search for an additional, heavy Higgs boson in the [Formula: see text] decay channel at [Formula: see text] in [Formula: see text] collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 45	4.2	152
696	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> , <b>2016</b> , 76, 581	4.2	148
695	Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at ( $\sqrt{s_{NN}} = 2.76$ ) TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	143
694	Observation of Long-Range Elliptic Azimuthal Anisotropies in $\sqrt{s} = 13$ and 2.76 TeV pp Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2016</b> , 116, 172301	7.4	140
693	Measurement of the top quark-pair production cross section with ATLAS in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	138
692	Search for new high-mass phenomena in the dilepton final state using 36 fb <sup>-1</sup> of proton-proton collision data at ( $\sqrt{s} = 13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	126
691	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	126
690	Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	125
689	Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	124

688	Combined measurements of Higgs boson production and decay using up to 80 fb <sup>-1</sup> of proton-proton collision data at s=13 TeV collected with the ATLAS experiment. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	121
687	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at ( sqrt{s} ) = 8TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	120
686	Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 784, 173-191	4.2	118
685	Search for scalar diphoton resonances in the mass range 65-600 GeV with the ATLAS detector in pp collision data at s=8 TeV. <i>Physical Review Letters</i> , <b>2014</b> , 113, 171801	7.4	117
684	Search for dark matter in events with a hadronically decaying W or Z boson and missing transverse momentum in pp collisions at s=8 TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2014</b> , 112, 041802	7.4	117
683	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at s=13 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	116
682	Search for Invisible Decays of a Higgs Boson Produced in Association with a Z Boson in ATLAS. <i>Physical Review Letters</i> , <b>2014</b> , 112,	7.4	113
681	Search for charged Higgs bosons decaying via H <sup>±</sup> → t $\bar{t}$ ( t $\bar{t}$ ) events using pp collision data at ( sqrt{s} = 7;TeV ) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	112
680	Measurement of the inclusive isolated prompt photon cross section in pp collisions at s=7 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	112
679	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. <i>European Physical Journal C</i> , <b>2015</b> , 75, 510	4.2	109
678	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using ( sqrt{s}=8 ) TeV proton-proton collision data. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	108
677	Measurement of the [Formula: see text] production cross-section using [Formula: see text] events with [Formula: see text]-tagged jets in [Formula: see text] collisions at [Formula: see text] and 8TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3109	4.2	107
676	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 476	4.2	104
675	Search for doubly charged Higgs bosons in like-sign dilepton final states at (sqrt{s} = 7 TeV) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	104
674	Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	103
673	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	101
672	Measurements of the Nuclear Modification Factor for Jets in Pb+Pb Collisions at s <sub>NN</sub> =2.76 TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 072302	7.4	99
671	Combined search for the Standard Model Higgs boson in pp collisions at s=7 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	96

670	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into [Formula: see text] in [Formula: see text] collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 349	4.2	94
669	Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC. <i>Physical Review Letters</i> , <b>2016</b> , 117, 182002	7.4	92
668	Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in ( $\sqrt{s}=8$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	92
667	Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	91
666	Search for Higgs boson pair production in the $B\bar{b}$ final state using pp collision data at $\sqrt{s}=8$ TeV from the ATLAS detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 081802	7.4	90
665	Observation of $H\rightarrow b\bar{b}$ decays and $VH$ production with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 786, 59-86	4.2	87
664	Observation and measurement of Higgs boson decays to $WW^*$ with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	86
663	Measurement of [Formula: see text] production with a veto on additional central jet activity in collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2043	4.2	82
662	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 $\text{fb}^{-1}$ of pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	81
661	Determination of $\beta_s$ and $\sin^2 2\alpha$ from measurements of the total hadronic cross section in $e^+e^-$ annihilation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1987</b> , 183, 400-411	4.2	80
660	Measurement of the $Z/\bar{\chi}$ boson transverse momentum distribution in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	79
659	Measurement of the charge asymmetry in top quark pair production in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2039	4.2	78
658	Search for heavy neutrinos and right-handed bosons in events with two leptons and jets in collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2056	4.2	78
657	A study of charged particle multiplicities in hadronic decays of the $Z^0$ . <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1992</b> , 53, 539-554		78
656	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. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	76
655	Search for a light charged Higgs boson in the decay channel [Formula: see text] in [Formula: see text] events using collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2465	4.2	76
654	Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	74
653	Measurements of Higgs boson properties in the diphoton decay channel with 36 $\text{fb}^{-1}$ of pp collision data at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	74

652	Search for production of [Formula: see text] resonances decaying to a lepton, neutrino and jets in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 209	4.2	73
651	Evidence for electroweak production of $W\bar{W}jj$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2014</b> , 113, 141803	7.4	73
650	QCD studies with $e+e$ annihilation data at 130 and 136 GeV. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 191-206		73
649	ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	72
648	Measurement of the inclusive jet cross-section in collisions at [Formula: see text] and comparison to the inclusive jet cross-section at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2509	4.2	71
647	Rapidity gap cross sections measured with the ATLAS detector in pp collisions at ( $\sqrt{s} = 7$ mbox{~TeV}). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	70
646	Searches for scalar leptoquarks in collisions at [Formula: see text] = 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 5	4.2	68
645	A study of differences between quark and gluon jets using vertex tagging of quark jets. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 58, 387-403		68
644	Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	67
643	Jet mass and substructure of inclusive jets in ( $\sqrt{s} = 7$ ; {text{TeV}}) pp collisions with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	67
642	Search for Higgs boson pair production in the [Formula: see text] final state from collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 412	4.2	66
641	Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-39	5.4	66
640	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 903	4.2	66
639	Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	65
638	Search for the ( $\bar{b}$ ) decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	64
637	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. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	64
636	Measurement of $W\bar{W}$ and Z-boson production cross sections in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 601-621	4.2	64
635	Measurement of the transverse momentum and [Formula: see text] distributions of Drell-Yan lepton pairs in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 291	4.2	63

634	Search for resonant diboson production in the [Formula: see text] final state in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 69	4.2	62
633	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2017</b> , 77, 195	4.2	61
632	Search for dark matter in events with heavy quarks and missing transverse momentum in [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 92	4.2	60
631	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using ( $\sqrt{s}$ ) = 7 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	60
630	Measurement of the $Z$ -boson mass in pp collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 110	4.2	59
629	A determination of $\sigma(s(M_{Z^0}))$ at LEP using resummed QCD calculations. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 59, 1-19		59
628	Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	59
627	Measurement of the W and Z/ $\tau$ production cross sections in proton-proton collisions at ( $\sqrt{s}$ ) = 7 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1	5.4	58
626	A search for ( $\tilde{t}$ ) resonances using lepton-plus-jets events in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	57
625	A global determination of $\alpha_s(M_{Z^0})$ at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1992</b> , 55, 1-24		57
624	Measurements of $B^0 - \bar{B}^0$ mixing, $\frac{\Gamma(Z^0 \rightarrow b\bar{b})}{\Gamma(Z^0 \rightarrow \text{hadrons})}$ and semileptonic branching ratios for b-flavoured hadrons in hadronic $Z^0$ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 60, 199-216		57
623	Search for charged Higgs bosons decaying via $H \rightarrow \tau\tau$ in fully hadronic final states using pp collision data at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	56
622	Constraints on the off-shell Higgs boson signal strength in the high-mass and final states with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 335	4.2	56
621	Precision measurement and interpretation of inclusive $Z$ and production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 367	4.2	56
620	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 199	4.2	55
619	Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	55
618	Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	55
617	Summary of the searches for squarks and gluinos using ( $\sqrt{s}$ ) = 8 TeV pp collisions with the ATLAS experiment at the LHC. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	55

616	Evidence for the associated production of a W boson and a top quark in ATLAS at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 142-159	4.2	55
615	Measurements of the [Formula: see text] production cross sections in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 82	4.2	54
614	Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	54
613	Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $(\sqrt{s}) = 8$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	54
612	Measurement of $W \mp Z$ production in proton-proton collisions at $(\sqrt{s}=7\sim\text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	54
611	Search for squarks and gluinos in final states with jets and missing transverse momentum at [Formula: see text] = 13 [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 392	4.2	53
610	Search for new phenomena in events with at least three photons collected in collisions at [Formula: see text] = 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 210	4.2	53
609	Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	53
608	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at $(\sqrt{s}=7\sim\text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	53
607	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. <i>European Physical Journal C</i> , <b>2016</b> , 76, 666	4.2	53
606	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. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	52
605	Search for lepton-flavour-violating decays of the Higgs and bosons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 70	4.2	52
604	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> , <b>2017</b> , 77, 393	4.2	52
603	Observation of an excited $B_c(\Theta)$ meson state with the ATLAS detector. <i>Physical Review Letters</i> , <b>2014</b> , 113, 212004	7.4	52
602	Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3157	4.2	52
601	Measurement of the W boson polarization in top quark decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	52
600	Performance of the ATLAS muon trigger in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 120	4.2	51
599	Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	51



598	Electron and photon performance measurements with the ATLAS detector using the 2015-2017 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P12006-P12006	1	51
597	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. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	50
596	Evidence for the ( $H \rightarrow b\bar{b}$ ) decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	50
595	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s}=7$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 208	4.2	50
594	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in ( $\sqrt{s}=13$ ) TeV pp collisions using the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	50
593	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 303	4.2	49
592	Measurement of charged-particle spectra in Pb+Pb collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ ) TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	49
591	Search for high-mass resonances decaying to dilepton final states in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	49
590	Measurements of W and Z production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	49
589	A search for technipions and charged Higgs bosons at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 242, 299-308	4.2	49
588	Search for resonances in diphoton events at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	49
587	Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 995	4.2	49
586	Measurement of spin correlation in top-antitop quark events and search for top squark pair production in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 142001	7.4	48
585	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 538	4.2	48
584	Search for supersymmetry at $\sqrt{s}=7$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 259	4.2	48
583	Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 428	4.2	48
582	Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb <sup>-1</sup> of ( $\sqrt{s}=7$ ;TeV) proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	48
581	Search for high-mass new phenomena in the dilepton final state using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 761, 372-392	4.2	48

580	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 211801	7.4	48
579	Search for long-lived charginos based on a disappearing-track signature in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	48
578	Measurement of the prompt $[\text{Formula: see text}]$ pair production cross-section in collisions at $[\text{Formula: see text}]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 76	4.2	47
577	Search for heavy resonances decaying into in the final state in collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 24	4.2	47
576	Measurement of the $t\bar{t}$ production cross-section using $e\bar{e}$ events with b-tagged jets in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 761, 136-157	4.2	47
575	Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	47
574	Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	47
573	Search for a new resonance decaying to a or boson and a Higgs boson in the $[\text{Formula: see text}]$ final states with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 263	4.2	46
572	Light-quark and gluon jet discrimination in $[\text{Formula: see text}]$ collisions at $[\text{Formula: see text}]$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3023	4.2	46
571	Search for lepton-flavour-violating $H \rightarrow \bar{\nu}\nu$ decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	46
570	Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with ( $\sqrt{s}=8$ ) TeV pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	45
569	Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	45
568	Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. <i>Physical Review Letters</i> , <b>2019</b> , 122, 231801	7.4	45
567	Measurement of ZZ production in pp collisions at ( $\sqrt{s}=7$ ) TeV and limits on anomalous ZZZ and ZZ couplings with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	45
566	Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $[\text{Formula: see text}]$ TeV in 2010. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3034	4.2	45
565	Search for pair production of massive particles decaying into three quarks with the ATLAS detector in ( $\sqrt{s}=7$ ; $\text{TeV}$ ) pp collisions at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	45
564	Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $[\text{Formula: see text}]$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 318	4.2	44
563	Identification of boosted, hadronically decaying bosons and comparisons with ATLAS data taken at $[\text{Formula: see text}]$ TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 154	4.2	44

562	Measurement of isolated-photon pair production in pp collisions at ( $\sqrt{s}=7$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	44
561	Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at ( $\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4-2	44
560	Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4-2	44
559	Angular analysis of $B \rightarrow D^* \mu^+ \mu^-$ decays in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	44
558	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> , <b>2013</b> , 2013, 1	5-4	43
557	Measurement of the cross section for top-quark pair production in pp collisions at ( $\sqrt{s} = 7$ ) TeV with the ATLAS detector using final states with two high-p T leptons. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	43
556	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> , <b>2019</b> , 79, 1	4-2	43
555	Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 466	4-2	42
554	Measurement of the differential cross-sections of prompt and non-prompt production of $[Formula: see text]$ and $[Formula: see text]$ in collisions at $[Formula: see text]$ and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 283	4-2	42
553	Measurement of the top quark mass with the template method in the $[Formula: see text]$ channel using ATLAS data. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2046	4-2	42
552	Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 interpreted in the phenomenological MSSM. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5-4	42
551	Measurement of the top quark mass in the $t\bar{t}$ -dilepton channel from $\sqrt{s}=8$ TeV ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 761, 350-371	4-2	42
550	Search for heavy resonances in the $t\bar{t}$ final states using proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 293	4-2	41
549	Observation of Light-by-Light Scattering in Ultraperipheral Pb+Pb Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2019</b> , 123, 052001	7-4	41
548	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> , <b>2014</b> , 74, 2883	4-2	41
547	Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s}=7$ TeV in dilepton final states with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 459-477	4-2	41
546	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4-2	41
545	Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in ( $\sqrt{s}=7$ TeV) proton-proton collisions with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4-2	41

544	Limits on neutral heavy lepton production from $Z^0$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1990</b> , 247, 448-457	4.2	41
543	Measurement of the Higgs boson mass in the $H \rightarrow ZZ^* \rightarrow 4\ell$ and $H \rightarrow \tau\tau$ channels with $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 784, 345-366	4.2	41
542	Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	40
541	Measurement of top quark polarization in top-antitop events from proton-proton collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review Letters</i> , <b>2013</b> , 111, 232002	7.4	40
540	Search for new heavy quarks in $e^+e^-$ collisions up to 46.78 GeV CM energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1984</b> , 144, 297-301	4.2	40
539	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 199	4.2	39
538	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> , <b>2014</b> , 2014, 1	5.4	39
537	A search for $(\overline{t}t)$ resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at $(\sqrt{s}) = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	39
536	Search for charged Higgs bosons decaying into top and bottom quarks at $(\sqrt{s})=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	39
535	Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s}=8$ TeV proton-proton collisions in the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 241	4.2	38
534	Observation and measurements of the production of prompt and non-prompt $B$ mesons in association with a $W$ boson in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 229	4.2	38
533	Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $(\sqrt{s})=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	38
532	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $(\sqrt{s}) = 13$ TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	37
531	Measurement of the production of a $W$ boson in association with a charm quark in pp collisions at $(\sqrt{s}) = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	37
530	Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at $(\sqrt{s})=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	37
529	Search for the Standard Model Higgs boson in the $H \rightarrow \tau\tau$ decay mode in $(\sqrt{s}) = 7$ TeV pp collisions with ATLAS. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	37
528	Limits on the production of the standard model Higgs boson in pp collisions at $(\sqrt{s}) = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	37
527	Search for massive colored scalars in four-jet final states in $(\sqrt{s})=7$ TeV proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	37

526	A study of charm hadron production in ( $Z^0$ to $c\bar{c}$ ) and ( $Z^0$ to $b\bar{b}$ ) decays at LEP decays at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 1-16		37
525	Inclusive neutral vector meson production in hadronic $Z^0$ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1992</b> , 56, 521-535		37
524	Measurement of $(\Gamma(Z^0 \rightarrow b\bar{b})/\Gamma(Z^0 \rightarrow \text{hadrons}))$ using leptons. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 58, 523-539		37
523	Charged-particle distributions at low transverse momentum in [Formula: see text] TeV interactions measured with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2016</b> , 76, 502	4.2	37
522	Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	36
521	Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay $H(\Theta) \rightarrow W(\Theta)Z$ using pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Experiment. <i>Physical Review Letters</i> , <b>2015</b> , 114, 231801	7.4	36
520	Search for direct pair production of the top squark in all-hadronic final states in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	36
519	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at and 5.02 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 142	4.2	35
518	Measurement of quarkonium production in proton-lead and proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 171	4.2	35
517	Measurement of the charged-particle multiplicity inside jets from [Formula: see text][Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 322	4.2	35
516	Measurement of jet fragmentation in Pb+Pb and collisions at TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2017</b> , 77, 379	4.2	35
515	Search for second generation scalar leptoquarks in pp collisions at ( $\sqrt{s}=7$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	35
514	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. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	34
513	Measurements of four-lepton production at the Z resonance in pp collisions at $\sqrt{s} = 7$ and 8 TeV with ATLAS. <i>Physical Review Letters</i> , <b>2014</b> , 112, 231806	7.4	34
512	ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at ( $\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	34
511	Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at ( $\sqrt{s} = 7$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	34
510	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 565	4.2	34
509	Search for Higgs and Z Boson Decays to $J/\psi$ and $\psi(nS)$ with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 121801	7.4	33

508	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. <i>European Physical Journal C</i> , <b>2017</b> , 77, 673	4.2	33
507	Search for charged Higgs bosons in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at ( $\sqrt{s}=8$ ) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	33
506	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb <sup>-1</sup> of ( $\sqrt{s}=13$ ) TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	33
505	Search for charged Higgs bosons decaying via $H \rightarrow b\bar{b}$ in the $b\bar{b}$ jets and $b\bar{b}$ lepton final states with 36 fb <sup>-1</sup> of pp collision data recorded at ( $\sqrt{s}=13$ ) TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	33
504	Measurement of the top quark mass in the [Formula: see text] and [Formula: see text] channels using [Formula: see text][Formula: see text] ATLAS data. <i>European Physical Journal C</i> , <b>2015</b> , 75, 330	4.2	32
503	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=8$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 18	4.2	32
502	Measurements of the Total and Differential Higgs Boson Production Cross Sections Combining the $H \rightarrow b\bar{b}$ and $H \rightarrow ZZ^{(*)}4\ell$ Decay Channels at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 115, 091801	7.4	32
501	Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 115, 131801	7.4	32
500	Search for pair production of Higgs bosons in the ( $b\bar{b}b\bar{b}$ ) final state using proton-proton collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	31
499	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> , <b>2019</b> , 2019, 1	5.4	31
498	Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at ( $\sqrt{s} = 7$ TeV) with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	31
497	Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at ( $\sqrt{s}=7$ ) TeV in the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	31
496	Measurement of the production and lepton charge asymmetry of [Formula: see text] bosons in Pb+Pb collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 23	4.2	31
495	Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3134	4.2	31
494	Search for strong production of supersymmetric particles in final states with missing transverse momentum and at least three b-jets at ( $\sqrt{s} = 8$ ) TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	31
493	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). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	31
492	Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in ( $\sqrt{s}=7$ TeV) proton-proton collisions. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	31
491	Inclusive search for same-sign dilepton signatures in pp collisions at ( $\sqrt{s} = 7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	31

490	Measurements of b-jet tagging efficiency with the ATLAS detector using ( $\overline{t}$ ) events at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	31
489	Search for the standard model Higgs boson produced in association with top quarks and decaying into a $b\bar{b}$ pair in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	31
488	Measurement of the differential cross-section of highly boosted top quarks as a function of their transverse momentum in $\sqrt{s}=8$ TeV proton-proton collisions using the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	30
487	Search for third generation scalar leptoquarks in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	30
486	Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2017</b> , 119, 191803	7.4	30
485	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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	30
484	Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at ( $\sqrt{s}=8$ ) TeV with ATLAS. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	30
483	Measurement of the [Formula: see text] production cross section in the tau + jets channel using the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2328	4.2	30
482	Measurements of underlying-event properties using neutral and charged particles in pp collisions at ( $\sqrt{s}=900$ ) GeV and ( $\sqrt{s}=7$ ) TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	30
481	Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	30
480	Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 125, 051801	7.4	30
479	Cross-section measurements of the Higgs boson decaying into a pair of leptons in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	29
478	Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	29
477	Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	29
476	Search for the direct production of charginos, neutralinos and staus in final states with at least two hadronically decaying taus and missing transverse momentum in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	29
475	Search for the Dimuon Decay of the Higgs Boson in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2017</b> , 119, 051802	7.4	29
474	Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. <i>European Physical Journal C</i> , <b>2017</b> , 77, 332	4.2	29
473	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 ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	29

472	Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	29
471	A measurement of the Muon pair production in $e+e$ annihilation at. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1987</b> , 191, 209-216	4.2	29
470	Search for Low-Mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 081801	7.4	29
469	Two-particle Bose-Einstein correlations in collisions at [Formula: see text] 0.9 and 7 TeV measured with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 466	4.2	28
468	A search for pair-produced resonances in four-jet final states at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 250	4.2	28
467	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2016</b> , 76, 295	4.2	28
466	Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 55	4.2	28
465	Search for minimal supersymmetric standard model Higgs Bosons $\tilde{H}$ and for a [Formula: see text] boson in the [Formula: see text] final state produced in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 585	4.2	28
464	Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	28
463	Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \rightarrow 4\ell$ and $ZZ \rightarrow 2\ell 2\tau$ final states with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 786, 223-244	4.2	28
462	Search for a Structure in the $B_{s^0} \rightarrow \mu\mu$ Invariant Mass Spectrum with the ATLAS Experiment. <i>Physical Review Letters</i> , <b>2018</b> , 120, 202007	7.4	28
461	Fiducial, total and differential cross-section measurements of $\gamma$ -channel single top-quark production in collisions at 8 TeV using data collected by the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 531	4.2	27
460	Measurement of the inclusive jet cross-section in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV using 4.5 fb <sup>-1</sup> of data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	27
459	Search for invisible decays of the Higgs boson produced in association with a hadronically decaying vector boson in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 337	4.2	27
458	Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 777, 91-113	4.2	27
457	Combination of searches for WW, WZ, and ZZ resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 755, 285-305	4.2	27
456	Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in ( $\sqrt{s}=13$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	27
455	[Production and decay with the cello detector at petra. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1989</b> , 222, 163-172	4.2	27



454	Observation of a multiparticle event with two isolated energetic muons in $e^+e^-$ interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1984</b> , 141, 145-152	4.2	27
453	Study of the rare decays of [Formula: see text] and [Formula: see text] into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 513	4.2	27
452	Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow WW^* \rightarrow e^+e^-$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 789, 508-529	4.2	27
451	Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. <i>Physical Review Letters</i> , <b>2018</b> , 120, 211802	7.4	27
450	Observation of Electroweak Production of a Same-Sign W Boson Pair in Association with Two Jets in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2019</b> , 123, 161801	7.4	26
449	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> , <b>2019</b> , 79, 1	4.2	26
448	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 <sup>-1</sup> of ( $\sqrt{s}=13$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	26
447	Measurement of $\tau_1$ and $\tau_2$ production with ( $\sqrt{s}$ ) = 7 TeV pp collisions at ATLAS. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	26
446	Measurements of the production cross section of a [Formula: see text] boson in association with jets in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 361	4.2	26
445	Analysis of events with b-jets and a pair of leptons of the same charge in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	26
444	Measurement of differential production cross-sections for a Z boson in association with b-jets in 7 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	26
443	Determination of $\sigma_S$ using OPAL hadronic event shapes at ( $\sqrt{s} = 91 \text{ mbox{-}}209 \sim \text{mathrm{GeV}}$ ) and resummed NNLO calculations. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	26
442	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> , <b>2016</b> , 76, 658	4.2	26
441	Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P03017-P03017	1	25
440	Measurement of the ZZ Production Cross Section in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2016</b> , 116, 101801	7.4	25
439	Multi-channel search for squarks and gluinos in [Formula: see text] collisions with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2362	4.2	25
438	Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$ Using 36 fb <sup>-1</sup> of pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2017</b> , 119, 181804	7.4	25
437	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> , <b>2017</b> , 2017, 1	5.4	25

436	Search for $[Formula: see text]$ decays in $[Formula: see text]$ collisions at $[Formula: see text]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 165	4.2	25
435	Search for quantum black hole production in high-invariant-mass lepton+jet final states using pp collisions at $\sqrt{s}=8$ TeV and the ATLAS detector. <i>Physical Review Letters</i> , <b>2014</b> , 112, 091804	7.4	25
434	Measurement of $R$ in $e^+e^-$ annihilation for $(\sqrt{s})$ between 7.4 and 9.4 GeV. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1982</b> , 15, 299-309		25
433	Search for bottom squark pair production in proton-proton collisions at $[Formula: see text]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 547	4.2	25
432	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	25
431	Measurement of the top quark mass in the $(t\bar{t} \rightarrow \text{lepton+jets})$ channel from $(\sqrt{s}=8)$ TeV ATLAS data and combination with previous results. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	24
430	Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	24
429	Measurement of the top quark pair production charge asymmetry in proton-proton collisions at $(\sqrt{s}) = 7$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	24
428	Measurement of the production cross section of prompt $J/\psi$ mesons in association with a $W$ boson in pp collisions at $(\sqrt{s}) = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	24
427	Measurement of the differential cross-section of $B^+$ meson production in pp collisions at $(\sqrt{s}=7)$ TeV at ATLAS. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	24
426	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. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	24
425	The production of neutral kaons in $Z^0$ decays and their Bose-Einstein correlations. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 67, 389-401		24
424	Multiplicity dependence of Bose-Einstein correlations in hadronic $Z^0$ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 389-398		24
423	Search for production of charged Higgs particles. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1987</b> , 193, 376-382	4.2	24
422	Search for single production of vector-like quarks decaying into in collisions at $[Formula: see text]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 442	4.2	24
421	Measurement of the Soft-Drop Jet Mass in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 092001	7.4	24
420	Search for the direct production of charginos and neutralinos in final states with tau leptons in collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 154	4.2	23
419	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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	23

418	Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	23
417	Measurement of the $W^+W^-$ cross section in $\sqrt{s} = 7$ TeV pp collisions with ATLAS. <i>Physical Review Letters</i> , <b>2011</b> , 107, 041802	7.4	23
416	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb of collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 401	4.2	23
415	Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b}$ Decay Channel in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 191801	7.4	23
414	Search for Higgs boson pair production in the $(\gamma\gamma b\bar{b})$ final state with 13 TeV pp collision data collected by the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	23
413	Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	23
412	Prompt and non-prompt and suppression at high transverse momentum in Pb+Pb collisions with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 762	4.2	23
411	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> , <b>2017</b> , 77, 26	4.2	22
410	Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $(\sqrt{s} = 13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	22
409	Observation of electroweak $W\Xi$ boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 793, 469-492	4.2	22
408	Search for heavy long-lived multi-charged particles in collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 362	4.2	22
407	Search for $W^+W^-/W^+Z$ resonance production in $b\bar{q}$ final states in pp collisions at $(\sqrt{s} = 13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	22
406	A search for prompt lepton-jets in pp collisions at $(\sqrt{s} = 8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	22
405	Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb of $(\sqrt{s} = 13)$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	22
404	A search for high-mass resonances decaying to $b\bar{b}$ in pp collisions at $(\sqrt{s} = 8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	22
403	Search for heavy lepton resonances decaying to a Z boson and a lepton in pp collisions at $(\sqrt{s} = 8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	22
402	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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	22
401	Search for invisible Higgs boson decays in vector boson fusion at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 793, 499-519	4.2	21

400	Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	21
399	Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 79	4.2	21
398	Measurements of fiducial cross-sections for [Formula: see text] production with one or two additional $\gamma$ -jets in collisions at [Formula: see text]=8 TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 11	4.2	21
397	Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3195	4.2	21
396	Study of hard double-parton scattering in four-jet events in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	21
395	Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	21
394	A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 812, 135980	4.2	21
393	Search for Higgs boson pair production in the channel using collision data recorded at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1007	4.2	21
392	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> , <b>2018</b> , 2018, 1	5.4	21
391	Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s}=5.02$ TeV Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 997	4.2	21
390	Search for doubly charged scalar bosons decaying into same-sign boson pairs with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 58	4.2	20
389	Search for Scalar Charm Quark Pair Production in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 161801	7.4	20
388	Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	20
387	Searches for heavy diboson resonances in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	20
386	Measurement of ( $W^{\pm}Z$ ) production cross sections and gauge boson polarisation in pp collisions at ( $\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	20
385	Searches for the $Z\gamma$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	20
384	Evidence of $W\gamma$ Production in pp Collisions at $\sqrt{s}=8$ TeV and Limits on Anomalous Quartic Gauge Couplings with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 115, 031802	7.4	20
383	Search for new resonances in mass distributions of jet pairs using 139 fb $^{-1}$ of pp collisions at ( $\sqrt{s} = 13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	20

382	Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at [Formula: see text] = 13 Te V with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 565	4.2	20
381	Measurement of the boson polarisation in [Formula: see text] events from collisions at [Formula: see text] = 8 TeV in the lepton+jet channel with ATLAS. <i>European Physical Journal C</i> , <b>2017</b> , 77, 264	4.2	19
380	Performance of top-quark and (varvec{W})-boson tagging with ATLAS in Run 2 of the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	19
379	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> , <b>2017</b> , 77, 898	4.2	19
378	Study of the material of the ATLAS inner detector for Run 2 of the LHC. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P12009-P12009	1	19
377	Determination of the strong coupling constant from transverse energy-energy correlations in multijet events at using the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 872	4.2	19
376	Charged-particle distributions in interactions at [Formula: see text] measured with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 403	4.2	19
375	Measurement of three-jet production cross-sections in [Formula: see text] collisions at 7 [Formula: see text] centre-of-mass energy using the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 228	4.2	18
374	Search for High-Mass Resonances Decaying to $\mu\mu$ in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 120, 161802	7.4	18
373	Search for long-lived neutral particles in pp collisions at ( $\sqrt{s}$ ) = 13 TeV that decay into displaced hadronic jets in the ATLAS calorimeter. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	18
372	Searches for third-generation scalar leptoquarks in ( $\sqrt{s}$ ) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	18
371	Measurement of the underlying event in jet events from 7 (text {TeV}) proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	18
370	Measurement of the centrality and pseudorapidity dependence of the integrated elliptic flow in lead-lead collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2982	4.2	18
369	Measurement of the low-mass Drell-Yan differential cross section at ( $\sqrt{s}$ ) = 7 TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	18
368	Measurement of jet shapes in top-quark pair events at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2676	4.2	18
367	Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at $\sqrt{s}=8$ TeV Measured with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 221802	7.4	18
366	Search for a Heavy Neutral Particle Decaying to $e\bar{e}$ or $\mu\bar{\mu}$ in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 115, 031801	7.4	18
365	Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	18

364	Search for flavour-changing neutral current top quark decays $t \rightarrow Hq$ in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-65	5.4	18
363	Search for metastable heavy charged particles with large ionisation energy loss in collisions at [Formula: see text] TeV using the ATLAS experiment. <i>European Physical Journal C</i> , <b>2015</b> , 75, 407	4.2	18
362	Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at ( $\sqrt{\mathbf{s}}=7 \text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	18
361	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. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	18
360	Measurement of the average hadron lifetime in $Z^0$ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 60, 217-228		18
359	Heavy quark charge asymmetries with the CELLO detector. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1990</b> , 47, 333-342		18
358	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in collision data at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 87	4.2	18
357	Observation of Centrality-Dependent Acoplanarity for Muon Pairs Produced via Two-Photon Scattering in Pb+Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 212301	7.4	18
356	Searches for heavy ZZ and ZW resonances in the $\bar{t}q$ and $t\bar{q}$ final states in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	17
355	Measurement of dijet cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	17
354	Measurement of polarization in $\tau$ -decays with the ATLAS detector in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2062	4.2	17
353	Measurements of jet vetoes and azimuthal decorrelations in dijet events produced in [Formula: see text] collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3117	4.2	17
352	A measurement of the $B^0$ oscillation frequency using leptons and $D^{*\mp}$ mesons. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 377-388		17
351	A measurement of electron production in hadronic $Z^0$ decays and a determination of $(\Gamma(Z^0 \rightarrow b\bar{b}))$ . <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1992</b> , 55, 191-207		17
350	A measurement of the forward-backward asymmetry of $(e^+ + e^- \rightarrow c\bar{c})$ and $(e^+ + e^- \rightarrow b\bar{b})$ at centre of mass energies on and near the $Z^0$ peak using $D^{*\mp}$ mesons. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 60, 601-612		17
349	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> , <b>2020</b> , 80, 1	4.2	17
348	Search for supersymmetry in a final state containing two photons and missing transverse momentum in [Formula: see text] TeV [Formula: see text] collisions at the LHC using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 517	4.2	17
347	In situ calibration of large-radius jet energy and mass in 13 TeV proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	16

346	ATLAS data quality operations and performance for 2015-2018 data-taking. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P04003-P04003	1	16
345	Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in ( $\sqrt{s}=8$ ) TeV proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	16
344	Search for the Standard Model Higgs boson decaying into ( $\overline{b}b$ ) 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> , <b>2016</b> , 2016, 1	5.4	16
343	Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 580	4.2	16
342	Measurement of the Drell-Yan triple-differential cross section in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	16
341	Search for new phenomena in events with three or more charged leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	16
340	Measurement of the ( $\overline{t}W$ ) and ( $\overline{t}Z$ ) production cross sections in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	16
339	Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at ( $\sqrt{s}=7$ ) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	16
338	A measurement of the ratio of the production cross sections for [Formula: see text] and [Formula: see text] bosons in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3168	4.2	16
337	Measurement of the production cross-section of ( $\overline{t}S$ ) $\rightarrow$ ( $\overline{t}b$ ) ( $\overline{t}c$ ) in pp collisions at ( $\sqrt{s}=7$ ) TeV at ATLAS. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	16
336	Search for anomalous production of prompt like-sign lepton pairs at ( $\sqrt{s}=7$ ; $\text{TeV}$ ) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	16
335	Studies of the performance of the ATLAS detector using cosmic-ray muons. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	16
334	Measurement of the lifetime. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 59, 183-194		16
333	The performance of the jet trigger for the ATLAS detector during 2011 data taking. <i>European Physical Journal C</i> , <b>2016</b> , 76, 526	4.2	16
332	Search for the Higgs boson produced in association with a boson and decaying to four $\tau$ -quarks via two spin-zero particles in collisions at 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 605	4.2	16
331	Search for flavour-changing neutral current top-quark decays to [Formula: see text] in [Formula: see text] collision data collected with the ATLAS detector at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 12	4.2	16
330	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> , <b>2019</b> , 79, 1	4.2	16
329	Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at ( $\sqrt{s_{\text{NN}}} = 5.02$ $\text{TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	16

328	Search for pair production of heavy vector-like quarks decaying into high-pT W bosons and top quarks in the lepton-plus-jets final state in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	16
327	Determination of spin and parity of the Higgs boson in the [Formula: see text] decay channel with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 231	4.2	15
326	Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 124, 031802	7.4	15
325	Search for $W \rightarrow b\bar{b}$ decays in the hadronic final state using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 327-348	4.2	15
324	Measurement of the top quark charge in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	15
323	Search for direct chargino production in anomaly-mediated supersymmetry breaking models based on a disappearing-track signature in pp collisions at ( $\sqrt{s}=7$ ; $\text{TeV}$ ) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	15
322	Measurements of $Z(\rightarrow S)$ and $X(3872) \rightarrow J/\psi \chi_{c0}$ production in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	15
321	Measurement of production with the hadronically decaying boson reconstructed as one or two jets in collisions at with ATLAS, and constraints on anomalous gauge couplings. <i>European Physical Journal C</i> , <b>2017</b> , 77, 563	4.2	15
320	Determination of the Ratio of b-Quark Fragmentation Fractions $f(s)/f(d)$ in pp Collisions at $\sqrt{s}=7$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 115, 262001	7.4	15
319	Determination of the top-quark pole mass using $(\overline{t}) + 1$ -jet events collected with the ATLAS experiment in 7 TeV pp collisions. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	15
318	Search for WH production with a light Higgs boson decaying to prompt electron-jets in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>New Journal of Physics</i> , <b>2013</b> , 15, 043009	2.9	15
317	Search for diphoton events with large missing transverse energy with 36 pb <sup>-1</sup> of 7 TeV proton-proton collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	15
316	$\Xi, \Omega$ and $\Lambda$ hyperon production in hadronic Z0 decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1997</b> , 73, 587-599		15
315	Test of the four-fermion contact interaction in $e^+e^-$ collisions at 130-140 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1996</b> , 387, 432-442	4.2	15
314	Precision measurements of the neutral current from hadron and lepton production at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 58, 219-237		15
313	Dijet Resonance Search with Weak Supervision Using $\sqrt{s}=13$ TeV pp Collisions in the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 131801	7.4	15
312	CP Properties of Higgs Boson Interactions with Top Quarks in the $t\bar{t} \rightarrow H$ and $tH$ Processes Using H <sub>bb</sub> with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 061802	7.4	15
311	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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15



310	Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s}=13$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 625	4.2	15
309	Measurement of the $\sigma(\text{tt}^*\text{tt}^*)$ and $\sigma(\text{tt}^*\text{tt}^*\text{tt}^*)$ production cross sections in multilepton final states using 3.2 fb of $\sqrt{s}=13$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 40	4.2	14
308	Measurements of electroweak $\text{tt}^*\text{tt}^*$ production and constraints on anomalous gauge couplings with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 474	4.2	14
307	Search for single production of vector-like quarks decaying into $Wb$ in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	14
306	Measurement of the $(\overline{\text{t}}\text{t})$ production cross-section as a function of jet multiplicity and jet transverse momentum in 7 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	14
305	Measurement of the production cross-section of a single top quark in association with a Z boson in proton-proton collisions at 13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 557-577	4.2	14
304	Search for the production of single vector-like and excited quarks in the $Wt$ final state in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	14
303	Measurement of the $\text{tt}^*\text{tt}^*$ and $\text{tt}^*\text{tt}^*W$ cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	14
302	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> , <b>2014</b> , 2014, 1	5.4	14
301	Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	14
300	Search for charged Higgs bosons through the violation of lepton universality in $(\overline{\text{t}}\text{t})$ events using pp collision data at $(\sqrt{s}=7)$ TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	14
299	Study of $(W/Z)H$ production and Higgs boson couplings using $H \rightarrow W^*W^*$ decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	14
298	Search for charged Higgs bosons in ee collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2076	4.2	14
297	A search for $\text{tt}^*\text{tt}^*$ resonances with the ATLAS detector in 2.05 fb of proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2083	4.2	14
296	Performance of the ATLAS detector using first collision data. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1	5.4	14
295	Improved measurements of the $B^0$ and $B^+$ meson lifetimes. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 67, 379-388		14
294	A strategy for a general search for new phenomena using data-derived signal regions and its application within the ATLAS experiment. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	14
293	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow \text{aa} \rightarrow 4b$ channel in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14

292	Combined measurement of differential and total cross sections in the $H \rightarrow ZZ \rightarrow 4\ell$ and the $H \rightarrow ZZ \rightarrow 2\ell 2\gamma$ decay channels at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 786, 114-133	4.2	14
291	Search for Higgs bosons produced via vector-boson fusion and decaying into bottom quark pairs in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	14
290	Measurements of top-quark pair differential cross-sections in the $[t\bar{t}]$ channel in collisions at $[7, 8]$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 292	4.2	13
289	Search for triboson $[t\bar{t}W]$ production in collisions at $[7, 8]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 141	4.2	13
288	Search for top-quark decays $t \rightarrow Hq$ with 36 fb <sup>-1</sup> of pp collision data at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	13
287	Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW^* \rightarrow e\mu$ with the ATLAS detector at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	13
286	Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	13
285	Identification of high transverse momentum top quarks in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	13
284	Measurement of top quark pair differential cross sections in the dilepton channel in pp collisions at $\sqrt{s}=7$ and 8 TeV with ATLAS. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	13
283	Addendum to Measurement of the $(t\bar{t})$ production cross-section using $(e\mu)$ events with b-tagged jets in pp collisions at $(\sqrt{s}) = 7$ and 8 ( $\text{TeV}$ ) with the ATLAS detector $[1]$ <i>European Physical Journal C</i> , <b>2016</b> , 76, 1	4.2	13
282	Search for supersymmetry in events with b-tagged jets and missing transverse momentum in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	13
281	Search for R-parity-violating supersymmetry in events with four or more leptons in $(\sqrt{s}=7; \text{TeV})$ pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	13
280	Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at $(\sqrt{s} = 7 \sim \text{TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	13
279	Search for a fermiophobic Higgs boson in the diphoton decay channel with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	13
278	Search for a heavy neutral particle decaying into an electron and a muon using 1 fb <sup>-1</sup> of ATLAS data. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	13
277	A measurement of the forward-backward asymmetry of $e^+e^- \rightarrow b\bar{b}$ by applying a jet charge algorithm to lifetime tagged events. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 67, 365-378		13
276	A test of the flavour independence of the strong interaction for five flavours. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 60, 397-420		13
275	The forward-backward asymmetry of $(e^+ + e^- \rightarrow b\bar{b}$ and $e^+ + e^- \rightarrow c\bar{c})$ using leptons in hadronic $Z^0$ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 60, 19-35		13

274	Fluctuations of anisotropic flow in Pb+Pb collisions at ( $\sqrt{s_{\text{NN}}}$ ) = 5.02 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	13
273	Performance of the ATLAS muon triggers in Run 2. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P09015-P09015	1	13
272	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> , <b>2020</b> , 80, 1	4.2	13
271	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> , <b>2021</b> , 81, 1	4.2	13
270	Measurements of top-quark pair differential and double-differential cross-sections in the ( $\ell\ell$ )+jets channel with pp collisions at ( $\sqrt{s}$ )=13 TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	13
269	Operation and performance of the ATLAS Tile Calorimeter in Run 1. <i>European Physical Journal C</i> , <b>2018</b> , 78, 987	4.2	13
268	Measurements of W and Z boson production in pp collisions at ( $\sqrt{s}$ )=5.02 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	12
267	Measurement of the W W + W Z cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at ( $\sqrt{s}$ )=7 TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	12
266	Higgs boson production cross-section measurements and their EFT interpretation in the ( $4\ell\ell$ ) decay channel at ( $\sqrt{s}$ )=13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	12
265	Search for new phenomena with photon+jet events in proton-proton collisions at ( $\sqrt{s}$ )=13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	12
264	Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	12
263	Search for strong gravity in multijet final states produced in pp collisions at ( $\sqrt{s}$ )=13 TeV using the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	12
262	Probing lepton flavour violation via neutrinoless [Formula: see text] decays with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 232	4.2	12
261	Search for anomalous couplings in the W tb vertex from the measurement of double differential angular decay rates of single top quarks produced in the t-channel with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1-46	5.4	12
260	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> , <b>2018</b> , 2018, 1	5.4	12
259	Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp and Pb+Pb Collisions in ATLAS. <i>Physical Review Letters</i> , <b>2019</b> , 123, 042001	7.4	12
258	Search for Higgs boson pair production in the WW(*)WW(*) decay channel using ATLAS data recorded at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	12
257	The differential production cross section of the [Formula: see text](1020) meson in [Formula: see text] = 7 TeV [Formula: see text] collisions measured with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2895	4.2	12

256	Measurement of the cross-section for electroweak production of dijets in association with a Z boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 775, 206-228	4.2	12
255	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> , <b>2017</b> , 2017, 1	5.4	12
254	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at ( $\sqrt{s}=13$ ) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	12
253	Search for top quark decays $t \rightarrow qH$ , with $H \rightarrow \tau\tau$ in ( $\sqrt{s}=13$ ) TeV pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	12
252	Measurements of top quark spin observables in ( $\overline{t}$ ) events using dilepton final states in ( $\sqrt{s}=8$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	12
251	Measurement of the flavour composition of dijet events in pp collisions at ( $\sqrt{s}=7$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	12
250	Studies of strong and electroweak interactions using final state photon emission in hadronic Z <sup>0</sup> decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 58, 405-418		12
249	A study of charm hadron production in ( $Z^0$ to $c\bar{c}$ ) and ( $Z^0$ to $b\bar{b}$ ) decays at LEP. <i>Physics Letters B</i> , <b>1996</b> , 72, 1		12
248	Measurement of the top-quark mass in ( $\overline{t}$ ) + 1-jet events collected with the ATLAS detector in pp collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	12
247	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> , <b>2019</b> , 79, 1	4.2	11
246	Direct top-quark decay width measurement in the lepton+jets channel at with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 129	4.2	11
245	Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79,	4.2	11
244	Measurement of lepton differential distributions and the top quark mass in production in collisions at $\sqrt{s}$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 804	4.2	11
243	Probing the W tb vertex structure in t-channel single-top-quark production and decay in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	11
242	Study of top quark production in collisions at $\sqrt{s}$ TeV and search for anomalous quartic gauge couplings with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2017</b> , 77, 646	4.2	11
241	Measurements of the pseudorapidity dependence of the total transverse energy in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV with ATLAS. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	11
240	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. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	11
239	Measurement of W and Z production in proton-proton collisions at ( $\sqrt{s} = 7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	11

238	Measurement of the $e^+e^- \rightarrow W^+W^-$ cross section and W decay branching fractions at LEP. <i>European Physical Journal C</i> , <b>2007</b> , 52, 767-785	4.2	11
237	Bose-Einstein study of position-momentum correlations of charged pions in hadronic Z0 decays. <i>European Physical Journal C</i> , <b>2007</b> , 52, 787	4.2	11
236	Measurement of $\Xi$ s with radiative hadronic events. <i>European Physical Journal C</i> , <b>2008</b> , 53, 21	4.2	11
235	A study of muon pair production and evidence for tau pair production in photon-photon collisions at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 60, 593-600		11
234	Determination of the production rate of D*0 mesons and of the ratio V/(V+P) in (Z <sup>0</sup> to cbar c) decays <b>1998</b> , 5, 1		11
233	A search for neutral Higgs bosons in the MSSM and models with two scalar field doublets <b>1998</b> , 5, 19		11
232	Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	11
231	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> , <b>2021</b> , 81, 1	4.2	11
230	. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	10
229	Search for heavy neutral Higgs bosons produced in association with b-quarks and decaying into b-quarks at $\sqrt{s}$ =13 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	10
228	Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at ( $\sqrt{s}$ =13) TeV with ATLAS. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	10
227	Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at $\sqrt{s}$ =8 TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 776, 295-317	4.2	10
226	Measurement of the cross section for isolated-photon plus jet production in pp collisions at $\sqrt{s}$ =13 TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 578-602	4.2	10
225	A search for top squarks with R-parity-violating decays to all-hadronic final states with the ATLAS detector in ( $\sqrt{s}$ =8) TeV proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	10
224	Measurement of the CP-violating phase $\phi_s$ and the B <sup>0</sup> <sub>s</sub> meson decay width difference with B <sup>0</sup> <sub>s</sub> $\rightarrow J/\psi$ decays in ATLAS. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	10
223	Search for diboson resonances in hadronic final states in 139 fb <sup>-1</sup> of pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	10
222	Search for lepton flavour violation in the continuum with the ATLAS detector in [Formula: see text] collisions at the LHC. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2040	4.2	10
221	Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in collisions at $\sqrt{s}$ =7 TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 765	4.2	10

220	Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	10
219	Search for new phenomena in events with an energetic jet and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2021</b> , 103,	4.9	10
218	. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	9
217	Measurement of the ZZ production cross section in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV using the ZZ $\rightarrow \ell\ell^+\ell\ell^-$ and (ZZto $\ell\ell^+\ell\ell^+\nu\overline{\nu}$ ) decay channels with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	9
216	Measurement of charged-particle distributions sensitive to the underlying event in ( $\sqrt{s}=13$ ) TeV proton-proton collisions with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	9
215	Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb <sup>-1</sup> of ( $\sqrt{s}$ ) = 8 TeV proton-proton collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	9
214	Search for unstable heavy and excited leptons in e+e <sup>-</sup> collisions at $\sqrt{s} = 170$ -172 GeV. <i>European Physical Journal C</i> , <b>1998</b> , 1, 45-64	4.2	9
213	Measurement of the strong coupling $\alpha_S$ from four-jet observables in e+e <sup>-</sup> annihilation. <i>European Physical Journal C</i> , <b>2006</b> , 47, 295	4.2	9
212	A measurement of $\Gamma(Z^0 \rightarrow b\bar{b})/\Gamma(Z^0 \rightarrow \text{hadrons})$ using an impact parameter technique. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 60, 579-592		9
211	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	9
210	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $4(\ell\ell)$ decay channel at ( $\sqrt{s}$ ) = 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	9
209	Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
208	Probing the Quantum Interference between Singly and Doubly Resonant Top-Quark Production in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 152002	7.4	9
207	Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
206	Measurement of VH, ( $\text{H} \rightarrow \overline{\text{b}}\text{b}$ ) 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> , <b>2019</b> , 2019, 1	5.4	8
205	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> , <b>2020</b> , 2020, 1	5.4	8
204	Measurement of Azimuthal Anisotropy of Muons from Charm and Bottom Hadrons in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 124, 082301	7.4	8
203	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb <sup>-1</sup> of data collected with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8

202	Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P05013-P05013	1	8
201	Search for scalar resonances decaying into $\mu\mu$ events with and without b-tagged jets produced in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
200	Measurement of splitting scales in $\tau$ -events at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2432	4.2	8
199	Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [Formula: see text][Formula: see text][Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 144	4.2	8
198	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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	8
197	Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 158	4.2	8
196	A measurement of the charm and bottom forward-backward asymmetries using D mesons at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1997</b> , 73, 379-395		8
195	A search for substructure of leptons and quarks with the CELLO detector. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1991</b> , 51, 149-156		8
194	Evidence for ( $t\bar{t}$ ) production in the multilepton final state in proton-proton collisions at ( $\sqrt{s}=13$ ) (text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	8
193	Search for light long-lived neutral particles produced in pp collisions at ( $\sqrt{s} = 13\text{-}\mathrm{TeV}$ ) and decaying into collimated leptons or light hadrons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	8
192	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
191	Measurements of top-quark pair spin correlations in the ( $e\mu$ ) channel at ( $\sqrt{s} = 13$ ) TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	8
190	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> , <b>2021</b> , 2021, 1	5.4	8
189	Search for heavy resonances decaying into a pair of Z bosons in the ( $e^+e^-e^+e^-$ ) and ( $e^+e^-e^+\nu_{\bar{\nu}}$ ) final states using 139 ( $\mathrm{fb}^{-1}$ ) of proton-proton collisions at ( $\sqrt{s} = 13$ ) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	8
188	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> , <b>2021</b> , 2021, 1	5.4	8
187	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. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	8
186	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 $\mathrm{fb}^{-1}$ of ( $\sqrt{s} = 13$ ) TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	8
185	Prompt and non-prompt elliptic flow in Pb+Pb collisions at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 784	4.2	8

184	Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	8
183	Measurements of inclusive and differential fiducial cross-sections of $(\bar{t}t)\gamma$ production in leptonic final states at ( $\sqrt{s}=13$ TeV) in ATLAS. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4-2	7
182	A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeVppcollisions. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P11020-P11020	1	7
181	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using ( $\sqrt{s}$ ) = 13 TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	7
180	Transverse momentum and process dependent azimuthal anisotropies in ( $\sqrt{s}_{\text{NN}}=8.16$ ) TeV p+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4-2	7
179	Search for new phenomena in high-mass final states with a photon and a jet from collisions at = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 102	4-2	7
178	Measurement of the production cross section of three isolated photons in pp collisions at $s=8$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 55-76	4-2	7
177	Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at [Formula: see text] TeV recorded with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 683	4-2	7
176	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> , <b>2018</b> , 2018, 1	5-4	7
175	Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5-4	7
174	Measurement of the $(\overline{t}t)\gamma$ production cross section in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	7
173	Measurements of top-quark pair to Z-boson cross-section ratios at ( $\sqrt{s}=13$ ), 8, 7 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	7
172	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> , <b>2017</b> , 2017, 1	5-4	7
171	Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using ( $\sqrt{s}=13$ ) TeV proton-proton collision data. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	7
170	Studies of $Z\bar{t}t$ production in association with a high-mass dijet system in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	7
169	Analysis of the $Wtb$ vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the t-channel at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	7
168	A search for heavy Kaluza-Klein electroweak gauge bosons at the LHC. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1	5-4	7
167	A search for neutral Higgs bosons in the MSSM and models with two scalar field doublets. <i>European Physical Journal C</i> , <b>1998</b> , 5, 19-40	4-2	7



166	A precise measurement of the tau polarization and its forward-backward asymmetry at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 365-375		7
165	A search for new leptons. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1988</b> , 41, 7-16		7
164	Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P05002-P05002	1	7
163	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	7
162	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at ( $\sqrt{s} = 13$ , {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	7
161	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the ( $\ell\ell b\bar{b}$ ) and ( $\ell\ell WW$ ) final states in pp collisions at ( $\sqrt{s}=13$ ) (TeV) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	7
160	Measurement of the [Formula: see text] dijet cross section in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 670	4.2	7
159	Search for new phenomena in different-flavour high-mass dilepton final states in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 541	4.2	7
158	Search for direct top squark pair production in final states with two tau leptons in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 81	4.2	7
157	Measurement of ( $W^{\pm} \mu^{\pm}$ ) boson production in Pb+Pb collisions at ( $\sqrt{s_{\text{NN}}} = 5.02$ -text {TeV}text {V}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	7
156	Search for electroweak diboson production in association with a high-mass dijet system in semileptonic final states in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	7
155	Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	7
154	Measurements of WH and ZH production in the ( $H \rightarrow b\bar{b}$ ) decay channel in pp collisions at ( $13$ ,text {TeV}text {V}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	7
153	Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 221802	7.4	6
152	A new method to distinguish hadronically decaying boosted bosons from bosons using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 238	4.2	6
151	Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	6
150	Measurements of charge and CP asymmetries in b-hadron decays using top-quark events collected by the ATLAS detector in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	6
149	Top-quark mass measurement in the all-hadronic ( $\overline{t}$ ) decay channel at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	6

148	Search for a massive Di-photon resonance at $\sqrt{s} = 91 \pm 72$ GeV. <i>European Physical Journal C</i> , <b>1998</b> , 1, 31-43.	4.2	6
147	Determination of event shape distributions and $\sigma(b\bar{b})$ from $Z^0$ to $b\bar{b}$ events at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 65, 31-45		6
146	QCD coherence studies using two particle azimuthal correlations. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1993</b> , 58, 207-217		6
145	Search for excited quarks in $e^+e^-$ interactions with the cello detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1986</b> , 181, 178-184	4.2	6
144	Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	6
143	Search for $(\overline{t})$ 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> , <b>2020</b> , 2020, 1	5.4	6
142	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> , <b>2021</b> , 2021, 1	5.4	6
141	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> , <b>2021</b> , 2021, 1	5.4	6
140	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a lepton in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	6
139	Measurement of the $(Z \rightarrow \nu \overline{\nu})$ production cross section in pp collisions at $(\sqrt{s} = 13)$ TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
138	Search for exclusive Higgs and Z boson decays to $\tau\tau$ and $\tau\nu$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
137	Measurement of jet activity produced in top-quark events with an electron, a muon and two -tagged jets in the final state in collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 220	4.2	5
136	Combinations of single-top-quark production cross-section measurements and $ f_{LVVtb} $ determinations at $(\sqrt{s}) = 7$ and 8 TeV with the ATLAS and CMS experiments. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
135	Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 151801	7.4	5
134	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> , <b>2019</b> , 2019, 1	5.4	5
133	Measurement of differential cross-sections of a single top quark produced in association with a boson at with ATLAS. <i>European Physical Journal C</i> , <b>2018</b> , 78, 186	4.2	5
132	Search for Higgs and Z Boson Decays to $\tau\tau$ with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2016</b> , 117, 111802	7.4	5
131	Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at $(\sqrt{s} = 8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	5

130	Measurement of four-jet differential cross sections in ( $\sqrt{s}=8$ ) TeV proton-proton collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-76	5.4	5
129	Determination of the production rate of $D^0$ mesons and of the ratio $V/(V+P)$ in ( $Z^0$ to $c\bar{c}$ ) decays. <i>European Physical Journal C</i> , <b>1998</b> , 5, 1-17	4.2	5
128	Multi-photon final states in $e+e$ collisions at $\sqrt{s}=130-172$ GeV. <i>European Physical Journal C</i> , <b>1998</b> , 1, 21-30	4.2	5
127	Search for invisibly decaying Higgs bosons with large decay width using the OPAL detector at LEP. <i>European Physical Journal C</i> , <b>2007</b> , 49, 457-472	4.2	5
126	The cosmic ray hodoscopes for testing thin gap chambers at the Technion and Tel Aviv University. <i>IEEE Transactions on Nuclear Science</i> , <b>2004</b> , 51, 2091-2096	1.7	5
125	A search for hadronic events with low thrust and an isolated lepton. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1987</b> , 193, 157-162	4.2	5
124	Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS. <i>Physical Review Letters</i> , <b>2020</b> , 125, 261801	7.4	5
123	Multi-photon final states in $e+e$ collisions at $\sqrt{s}=130-172$ GeV <b>1998</b> , 1, 21		5
122	Evidence for electroweak production of two jets in association with a $Z$ pair in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135341	4.2	5
121	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> , <b>2020</b> , 2020, 1	5.4	5
120	Search for the $HH \rightarrow b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	5
119	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> , <b>2020</b> , 2020, 1	5.4	5
118	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	5
117	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> , <b>2021</b> , 81, 1	4.2	5
116	Measurement of event-shape observables in [Formula: see text] events in collisions at [Formula: see text] with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2016</b> , 76, 375	4.2	5
115	Measurement of the relative width difference of the ( $B^0$ system) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	5
114	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> , <b>2021</b> , 81, 1	4.2	5
113	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> , <b>2021</b> , 2021, 1	5.4	5

112	Measurement of colour flow using jet-pull observables in events with the ATLAS experiment at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 847	4.2	5
111	Measurement of the inclusive and fiducial production cross-sections in the lepton+jets channel in collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 487	4.2	5
110	Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	4
109	Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 124, 222002	7.4	4
108	Measurement of jet activity in top quark events using the e <sup>+</sup> final state with two b-tagged jets in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	4
107	Combination of inclusive and differential ( $\overline{\text{t}}$ ) charge asymmetry measurements using ATLAS and CMS data at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
106	Search for a narrow resonance in Z0 decays into hadrons and isolated photons. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 71, 1-10		4
105	Measurement of the average b-baryon lifetime and the product branching ratio( $f(b \text{ to } \Lambda_b) \cdot \text{BR}(\Lambda_b \text{ to } \Lambda \ell^+ \bar{\nu}_X)$ ). <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 69, 195-214		4
104	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> , <b>2020</b> , 80, 1	4.2	4
103	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	4
102	Measurement of J/ψ production in association with a W± boson with pp data at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	4
101	Search for a massive Di-photon resonance at $\sqrt{s} = 91 \pm 72$ GeV <b>1998</b> , 1, 31		4
100	Search for unstable heavy and excited leptons in e+e- collisions at $\sqrt{s} = 170-172$ GeV <b>1998</b> , 1, 45		4
99	Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. <i>Nature Physics</i> , <b>2021</b> , 17, 819-825	16.2	4
98	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> , <b>2019</b> , 79, 1	4.2	4
97	Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at ( $\sqrt{s}=13$ ) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
96	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> , <b>2021</b> , 81, 1	4.2	4
95	Search for dijet resonances in events with an isolated charged lepton using ( $\sqrt{s}$ ) = 13 TeV proton-proton collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3

94	Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at ( $\sqrt{s}=8$ ) and 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	3
93	Measurement of polarisation in decays in proton-proton collisions at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 163	4.2	3
92	Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} \sim 13$ TeV with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79,	4.2	3
91	Measurement of the $k_t$ splitting scales in Z $\rightarrow e^+e^-$ events in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	3
90	Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 251802	7.4	3
89	Measurement of $K_S^0$ and $\Lambda^0$ production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	3
88	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> , <b>2020</b> , 80, 1	4.2	3
87	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 <b>2015</b> , 2015, 1		3
86	Reconstruction and identification of boosted di-jet systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
85	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> , <b>2021</b> , 2021, 1	5.4	3
84	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> , <b>2021</b> , 2021, 1	5.4	3
83	Medium-Induced Modification of Z-Tagged Charged Particle Yields in Pb+Pb Collisions at 5.02 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 126, 072301	7.4	3
82	Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	2
81	Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P11016-P11016	1	2
80	Measurement of the Z( $\rightarrow ee$ ) production cross-section in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
79	Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	2
78	Anti-hyperon correlations in Z0 decay and investigation of the baryon production mechanism. <i>European Physical Journal C</i> , <b>2009</b> , 64, 609-625	4.2	2
77	Upper limit on the $\chi$ mass from $\chi \rightarrow h$ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 231-238		2

76	A study of the three- and four-photon final states produced in $e^+e^-$ annihilation at $\sqrt{s}=46.8$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1988</b> , 202, 154-160	4.2	2
75	Measurement of the $(\overline{t}t)$ production cross-section using $(e\mu)$ events with $(b)$ -tagged jets in $(pp)$ collisions at $(\sqrt{s}=7)$ and 8 TeV with the ATLAS detector <b>2014</b> , 74, 1		2
74	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in $pp$ collisions at $(\sqrt{s}=8\text{--})$ TeV with the ATLAS detector <b>2015</b> , 75, 1		2
73	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> , <b>2021</b> , 81, 1	4.2	2
72	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> , <b>2021</b> , 2021, 1	5.4	2
71	Measurement of the inclusive isolated-photon cross section in $pp$ collisions at $(\sqrt{s}) = 13$ TeV using 36 $\text{fb}^{-1}$ of ATLAS data. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
70	Measurements of inclusive and differential cross-sections of combined $(\overline{t}t\gamma)$ and $tW$ production in the $e\bar{t}$ channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
69	Measurement of isolated-photon plus two-jet production in $pp$ collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
68	Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into $W^{\pm}W^{\pm}$ or $ZZ$ in Fully Hadronic Final States from $\sqrt{s}=13$ TeV $pp$ Collisions Recorded with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 126, 121802	7.4	2
67	Longitudinal Flow Decorrelations in Xe+Xe Collisions at $\sqrt{s_{NN}}=5.44$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 126, 122301	7.4	2
66	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	2
65	Search for Displaced Leptons in $\sqrt{s}=13$ TeV $pp$ Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 127, 051802	7.4	2
64	Two-particle azimuthal correlations in photonuclear ultraperipheral Pb+Pb collisions at 5.02 TeV with ATLAS. <i>Physical Review C</i> , <b>2021</b> , 104,	2.7	2
63	Search for supersymmetry in events with four or more charged leptons in 139 $\text{fb}^{-1}$ of $(\sqrt{s}) = 13$ TeV $pp$ collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
62	Measurement of $ZZ$ production in the $\ell\ell$ final state with the ATLAS detector in $pp$ collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
61	Measurement of $(W^{\pm})$ -boson and Z-boson production cross-sections in $pp$ collisions at $(\sqrt{s}=2.76)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	2
60	Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at $E_{\text{beam}}=4$ TeV. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P12006-P12006	1	2
59	Exclusive dimuon production in ultraperipheral Pb+Pb collisions at $s_{NN}=5.02$ TeV with ATLAS. <i>Physical Review C</i> , <b>2021</b> , 104,	2.7	2

58	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> , <b>2021</b> , 2021, 1	5.4	2
57	A search for an excited muon decaying to a muon and two jets in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. <i>New Journal of Physics</i> , <b>2016</b> , 18, 073021	2.9	1
56	A comparison of b and uds quark jets to gluon jets. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1995</b> , 69, 543-560		1
55	Search for heavy particles in the b -tagged dijet mass distribution with additional b -tagged jets in proton-proton collisions at $s=13$ TeV with the ATLAS experiment. <i>Physical Review D</i> , <b>2022</b> , 105,	4.9	1
54	Operation and performance of the ATLAS semiconductor tracker in LHC Run 2. <i>Journal of Instrumentation</i> , <b>2022</b> , 17, P01013	1	1
53	Search for Higgs boson decays into a pair of pseudoscalar particles in the bb final state with the ATLAS detector in pp collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2022</b> , 105,	4.9	1
52	Search for production of (WW/WZ) resonances decaying to a lepton, neutrino and jets in (pp) collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector <b>2015</b> , 75, 1		1
51	Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at ( $\sqrt{s}=8, \text{TeV}$ ) with the ATLAS detector <b>2016</b> , 76, 1		1
50	Measurement of the W-boson mass in pp collisions at ( $\sqrt{s}=7, \text{TeV}$ ) with the ATLAS detector <b>2018</b> , 78, 1		1
49	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at ( $\sqrt{s}=13, \text{TeV}$ ) <b>2018</b> , 78, 1		1
48	Search for top squarks in events with a Higgs or Z boson using 139 fb <sup>-1</sup> of pp collision data at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	1
47	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 <sup>-1</sup> of ( $\sqrt{s}=13$ ) TeV pp collisions with the ATLAS detector <b>2018</b> , 2018, 1		1
46	Measurement of differential cross sections for single diffractive dissociation in ( $\sqrt{s}$ ) = 8 TeV pp collisions using the ATLAS ALFA spectrometer. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
45	Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
44	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> , <b>2021</b> , 2021, 1	5.4	1
43	Measurement of the CP-violating phase $\phi_{-s}$ in $B_{-s}^0 \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV. <i>European Physical Journal C</i> , <b>2021</b> , 81,	4.2	1
42	Test of the universality of $\kappa$ and $\lambda$ lepton couplings in W-boson decays with the ATLAS detector. <i>Nature Physics</i> , <b>2021</b> , 17, 813-818	16.2	1
41	Determination of the parton distribution functions of the proton from ATLAS measurements of differential W and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1

40	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> , <b>2021</b> , 2021, 1	5.4	1
39	Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at $(\sqrt{s})=13$ TeV. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P07029	1	1
38	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> , <b>2021</b> , 81, 1	4.2	1
37	Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P08025	1	1
36	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> , <b>2021</b> , 81, 1	4.2	1
35	Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at $\sqrt{s}=13$ TeV Using the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 127, 141801	7.4	1
34	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> , <b>2021</b> , 81, 1	4.2	1
33	Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
32	Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
31	Search for new phenomena in pp collisions in final states with tau leptons, b-jets, and missing transverse momentum with the ATLAS detector. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	1
30	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and 13 TeV. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	1
29	Emulating the impact of additional proton-proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. <i>Computing and Software for Big Science</i> , <b>2022</b> , 6, 1	6	0
28	Performance of the ATLAS Level-1 topological trigger in Run 2. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	0
27	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> , <b>2022</b> , 2022, 1	5.4	0
26	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 $13 \text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	0
25	Measurement of the $t(\bar{t})t(\bar{t})$ production cross section in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
24	Search for new phenomena in three- or four-lepton events in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2022</b> , 824, 136832	4.2	0
23	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> , <b>2021</b> , 2021, 1	5.4	0



22	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> , <b>2021</b> , 81, 1	4.2	○
21	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> , <b>2021</b> , 2021, 1	5.4	○
20	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> , <b>2021</b> , 81, 1	4.2	○
19	The ATLAS Fast Tracker system. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P07006	1	○
18	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 <sup>-1</sup> of pp collision data at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
17	AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , <b>2022</b> , 6, 1	6	○
16	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 Run 2 data. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	○
15	Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2022</b> , 137066	4.2	○
14	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> , <b>2021</b> , 2021, 1	5.4	○
13	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> , <b>2021</b> , 2021, 1	5.4	○
12	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> , <b>2021</b> , 2021, 1	5.4	○
11	Search for Lepton-Flavor Violation in Z-Boson Decays with $\ell$ Leptons with the ATLAS Detector.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 271801	7.4	○
10	Measurement of b-quark fragmentation properties in jets using the decay $B^{\pm} \rightarrow J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
9	W properties and decays at LEP2. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2001</b> , 98, 227-234		
8	An analysis of multihadronic events produced with two energetic leptons in $e^+e^-$ annihilation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1988</b> , 212, 515-522	4.2	
7	QCD studies with $e^+e^-$ annihilation data at 130 and 136 GeV. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 191-206		
6	Upper limit on the $\tau$ mass from $\tau \rightarrow h$ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 231-238		
5	A precise measurement of the tau polarization and its forward-backward asymmetry at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , <b>1996</b> , 72, 365-375		

- 4 A measurement of the  $B_d^0$  oscillation frequency using leptons and  $D^{*0}$  mesons. *Zeitschrift für Physik C-Particles and Fields*, **1996**, 72, 377-388
- 3 Multiplicity dependence of Bose-Einstein correlations in hadronic  $Z^0$  decays. *Zeitschrift für Physik C-Particles and Fields*, **1996**, 72, 389-398
- 2 The ATLAS inner detector trigger performance in pp collisions at  $\sqrt{s}=13$  TeV during LHC Run 2. *European Physical Journal C*, **2022**, 82, 1 4.2
- 1 A search for an unexpected asymmetry in the production of  $e^+e^-$  and  $e^+e^-$  pairs in proton-proton collisions recorded by the ATLAS detector at  $\sqrt{s}=13$  TeV. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2022**, 137106 4.2