

# Nuno F Castro

## List of Publications by Citations

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804 papers	38,359 citations	83 h-index	159 g-index
834 ext. papers	42,936 ext. citations	4.6 avg, IF	5.53 L-index

#	Paper	IF	Citations
804	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
803	The ATLAS Experiment at the CERN Large Hadron Collider. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08003-S08003	1273	
802	The ATLAS Simulation Infrastructure. <i>European Physical Journal C</i> , <b>2010</b> , 70, 823-874	4.2	817
801	Precision electroweak measurements on the Z resonance. <i>Physics Reports</i> , <b>2006</b> , 427, 257-454	27.7	730
800	Search for neutral MSSM Higgs bosons at LEP. <i>European Physical Journal C</i> , <b>2006</b> , 47, 547	4.2	496
799	Observation of a centrality-dependent dijet asymmetry in lead-lead collisions at $\sqrt{s(\text{NN})} = 2.76$ TeV with the ATLAS detector at the LHC. <i>Physical Review Letters</i> , <b>2010</b> , 105, 252303	7.4	458
798	Observation of associated near-side and away-side long-range correlations in $\sqrt{s(\text{NN})} = 5.02$ TeV proton-lead collisions with the ATLAS detector. <i>Physical Review Letters</i> , <b>2013</b> , 110, 182302	7.4	333
797	Combined search for the Standard Model Higgs boson using up to 4.9 fb <sup>-1</sup> of pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 49-66	4.2	301
796	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
795	Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , <b>2017</b> , 77, 317	4.2	272
794	Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 88-119	4.2	268
793	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
792	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
791	Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC. <i>New Journal of Physics</i> , <b>2011</b> , 13, 053033	2.9	259
790	Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	232
789	Performance of missing transverse momentum reconstruction in proton-proton collisions at ( $\sqrt{s} = 7$ TeV) with ATLAS. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	217
788	Jet energy measurement 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	209

787	Search for high-mass dilepton resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	209
786	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 299	4.2	202
785	Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at $\sqrt{s_{NN}}=2.76$ 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
784	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
783	Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 17	4.2	194
782	Luminosity determination in collisions at $\sqrt{s}=8$ TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2016</b> , 76, 653	4.2	188
781	Measurements of the Higgs boson production and decay rates and coupling strengths using collision data at $\sqrt{s}=7$ and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , <b>2016</b> , 76, 6	4.2	185
780	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
779	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
778	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
777	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
776	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
775	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
774	Search for the standard model Higgs boson in the diphoton decay channel with 4.9 fb <sup>-1</sup> of pp collision data at $\sqrt{s}=7$ TeV with ATLAS. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111803	7.4	157
773	Measurement with the ATLAS detector of multi-particle azimuthal correlations in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 725, 60-78	4.2	153
772	Jet energy resolution in proton-proton collisions at $\sqrt{s}=7$ TeV recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2306	4.2	153
771	Searches for supersymmetric particles in e <sup>+</sup> e <sup>-</sup> collisions up to 208 GeV and interpretation of the results within the MSSM. <i>European Physical Journal C</i> , <b>2003</b> , 31, 421-479	4.2	153
770	Search for an additional, heavy Higgs boson in the $h \rightarrow \gamma\gamma$ decay channel at $\sqrt{s}=7$ TeV in $pp$ collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 45	4.2	152

769	Measurement of the Higgs boson mass from the $H \rightarrow \gamma\gamma$ and $H \rightarrow ZZ^{*} \rightarrow 4\ell$ channels in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	151
768	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
767	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
766	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s}=7$ TeV proton-proton collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 67-85	4.2	142
765	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
764	Measurement of the differential cross-sections of inclusive, prompt and non-prompt $J/\psi$ production in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Nuclear Physics B</i> , <b>2011</b> , 850, 387-444	2.8	130
763	Search for new high-mass phenomena in the dilepton final state using 36 fb $^{-1}$ of proton-proton collision data at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	126
762	Search for supersymmetry using final states with one lepton, jets, and missing transverse momentum with the ATLAS detector in $\sqrt{s}=7$ TeV pp collisions. <i>Physical Review Letters</i> , <b>2011</b> , 106, 131802	7.4	125
761	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
760	Charged-particle multiplicities in pp interactions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2010</b> , 688, 21-42	4.2	121
759	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	120
758	Search for scalar diphoton resonances in the mass range 65-600 GeV with the ATLAS detector in pp collision data at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 113, 171801	7.4	117
757	Search for dark matter in events with a hadronically decaying W or Z boson and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2014</b> , 112, 041802	7.4	117
756	Measurement of the inclusive $W\ell$ and $Z\ell$ cross sections in the $e$ and $\mu$ decay channels in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	117
755	Photon events with missing energy in $e^+e^-$ collisions at ( $\sqrt{s}$ ) = 130 to 209 GeV. <i>European Physical Journal C</i> , <b>2005</b> , 38, 395-411	4.2	117
754	Measurement of hard double-parton interactions in $W(\ell)+2$ -jet events at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>New Journal of Physics</i> , <b>2013</b> , 15, 033038	2.9	116
753	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	115
752	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

751	Search for new resonances in $W$ and $Z$ final states 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>2014</b> , 738, 428-447	4.2	112
750	Search for charged Higgs bosons decaying via $H^\pm \rightarrow \tau^\pm \nu_\tau$ ( $\tau$ overline $\nu$ ) 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
749	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	112
748	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
747	Measurement of inclusive jet charged-particle fragmentation functions in Pb+Pb 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>2014</b> , 739, 320-342	4.2	109
746	Measurement of event-plane correlations in $\sqrt{s_{NN}}=2.76$ TeV lead-lead collisions with the ATLAS detector. <i>Physical Review C</i> , <b>2014</b> , 90,	2.7	109
745	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
744	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 186-203	4.2	108
743	A search for new physics in dijet mass and angular distributions in pp collisions at $\sqrt{s}=7$ TeV measured with the ATLAS detector. <i>New Journal of Physics</i> , <b>2011</b> , 13, 053044	2.9	108
742	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 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3109	4.2	107
741	Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	107
740	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
739	Measurement of the centrality dependence of the charged particle pseudorapidity distribution in lead-lead collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 363-382	4.2	104
738	Search for doubly charged Higgs bosons in like-sign dilepton final states at ( $\sqrt{s}=7$ $\sqrt{s}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	104
737	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
736	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using 4.7 fb of $\sqrt{s}=7$ TeV proton-proton collision data. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	101
735	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
734	Search for dark matter candidates and large extra dimensions in events with a photon and missing transverse momentum in pp collision data at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2013</b> , 110, 011802	7.4	99

733	Determination of the strange-quark density of the proton from ATLAS measurements of the W- $\bar{b}$ and Z- $\bar{b}$ cross sections. <i>Physical Review Letters</i> , <b>2012</b> , 109, 012001	7.4	98
732	Search for new particles in two-jet final states in 7 TeV proton-proton collisions with the ATLAS detector at the LHC. <i>Physical Review Letters</i> , <b>2010</b> , 105, 161801	7.4	97
731	Measurement of the centrality dependence of J/ $\psi$ yields and observation of Z production in lead-lead collisions with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 697, 294-312	4.2	97
730	Combined search for the Standard Model Higgs boson in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	96
729	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
728	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
727	Search for charginos nearly mass degenerate with the lightest neutralino based on a disappearing-track signature in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	92
726	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
725	Measurement of the t-channel single top-quark production cross section in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 330-350	4.2	91
724	Measurement of long-range pseudorapidity correlations and azimuthal harmonics in $\sqrt{s_{NN}}=5.02$ TeV proton-lead collisions with the ATLAS detector. <i>Physical Review C</i> , <b>2014</b> , 90,	2.7	87
723	Probing anomalous Wtb couplings in top pair decays. <i>European Physical Journal C</i> , <b>2007</b> , 50, 519-533	4.2	87
722	Search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow 4\ell$ with 4.8 fb $^{-1}$ of pp collision data at $\sqrt{s}=7$ TeV with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 383-402	4.2	86
721	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
720	Readiness of the ATLAS Tile Calorimeter for LHC collisions. <i>European Physical Journal C</i> , <b>2010</b> , 70, 1193-1236	4.2	82
719	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb $^{-1}$ of pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	81
718	Search for dark matter in events with a Z boson and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	79
717	Measurement of the Z/ $\gamma^*$ 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
716	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



715	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
714	Observation of a new $(b)$ state in radiative transitions to $(1S)$ and $(2S)$ at ATLAS. <i>Physical Review Letters</i> , <b>2012</b> , 108, 152001	7.4	77
713	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
712	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
711	Study of tau-pair production in photon-photon collisions at LEP and limits on the anomalous electromagnetic moments of the tau lepton. <i>European Physical Journal C</i> , <b>2004</b> , 35, 159-170	4.2	76
710	Searches for neutral Higgs bosons in extended models. <i>European Physical Journal C</i> , <b>2004</b> , 38, 1-28	4.2	75
709	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
708	Search for dilepton resonances in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2011</b> , 107, 272002	7.4	74
707	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
706	Evidence for electroweak production of $W^\pm W^\pm jj$ 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
705	Search for new physics in the dijet mass distribution using 1 fb of pp collision data at $\sqrt{s}=7$ TeV collected by the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 708, 37-54	4.2	72
704	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
703	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
702	Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	70
701	Search for direct top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 7$ TeV pp collisions using 4.7 fb(-10 of ATLAS data. <i>Physical Review Letters</i> , <b>2012</b> , 109, 211803	7.4	70
700	Measurement of $W+W^\pm$ production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector and limits on anomalous $WWZ$ and $WW\gamma$ couplings. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	70
699	The ATLAS Inner Detector commissioning and calibration. <i>European Physical Journal C</i> , <b>2010</b> , 70, 787-821	4.2	70
698	Search for charged Higgs bosons at LEP in general two Higgs doublet models. <i>European Physical Journal C</i> , <b>2004</b> , 34, 399-418	4.2	69

697	Searches for scalar leptoquarks in collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 5	4.2	68
696	Measurement of upsilon production in 7 TeV pp collisions at ATLAS. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	68
695	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
694	Jet mass and substructure of inclusive jets in ( $\sqrt{s} = 7$ ; {TeV}) pp collisions with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	67
693	Observation of spin correlation in $t\bar{t}$ events from pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 212001	7.4	67
692	Search for Higgs boson pair production in the $t\bar{t}$ final state from collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 412	4.2	66
691	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
690	Search for Higgs boson decays to a photon and a Z boson in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 732, 8-27	4.2	66
689	Dark Matter benchmark models for early LHC Run-2 Searches: Report of the ATLAS/CMS Dark Matter Forum. <i>Physics of the Dark Universe</i> , <b>2020</b> , 27, 100371	4.4	66
688	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2018</b> , 78, 903	4.2	66
687	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
686	Search for the ( $\bar{b}b$ ) 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
685	Measurement of the top quark pair production cross-section with ATLAS in the single lepton channel. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 711, 244-263	4.2	64
684	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
683	Measurements of normalized differential cross sections for $t\bar{t}$ production in pp collisions at ( $\sqrt{s}=7$ ) TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	64
682	Measurement of the transverse momentum and $t\bar{t}$ distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 291	4.2	63
681	Search for resonant diboson production in the $t\bar{t}$ final state in $t\bar{t}$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 69	4.2	62
680	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



679	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
678	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
677	Measurement of the $W$ -boson mass in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 110	4.2	59
676	Search for doubly charged Higgs bosons at LEP2. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 552, 127-137	4.2	59
675	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
674	Measurement of the $W$ and $Z/\gamma^*$ 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
673	A search for $t\bar{t}$ 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
672	Search for a supersymmetric partner to the top quark in final states with jets and missing transverse momentum at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 109, 211802	7.4	57
671	A study of the energy evolution of event shape distributions and their means with the DELPHI detector at LEP. <i>European Physical Journal C</i> , <b>2003</b> , 29, 285-312	4.2	57
670	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
669	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
668	Precision measurement and interpretation of inclusive $W$ and $Z$ production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 367	4.2	56
667	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , <b>2018</b> , 78, 199	4.2	55
666	Measurement of the high-mass Drell-Yan differential cross-section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 725, 223-242	4.2	55
665	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
664	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
663	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
662	Fiducial and differential cross sections of Higgs boson production measured in the four-lepton decay channel 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>2014</b> , 738, 234-253	4.2	55

661	Search for the decay . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 713, 387-407	4.2	55
660	Evidence for the associated production of a W boson and a top quark in ATLAS at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 142-159	4.2	55
659	Characterisation and mitigation of beam-induced backgrounds observed in the ATLAS detector during the 2011 proton-proton run. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, P07004-P07004	1	55
658	Measurement of the transverse momentum distribution of . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 415-434	4.2	55
657	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
656	Searches for supersymmetry with the ATLAS detector using final states with two leptons and missing transverse momentum in s=7TeV proton-proton collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 137-157	4.2	54
655	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
654	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
653	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
652	Search for supersymmetry in pp collisions at s=7 TeV in final states with missing transverse momentum and b-jets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 398-416	4.2	54
651	Search for scalar bottom quark pair production with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 108, 181802	7.4	54
650	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
649	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
648	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
647	Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in s=7 TeV pp collisions using 1 fb of ATLAS data. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	53
646	Search for long-lived stopped R-hadrons decaying out of time with pp collisions using the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	53
645	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
644	Search for quark contact interactions in dijet angular distributions in pp collisions at s=7 TeV measured with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 694, 327-345	4.2	53

643	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
642	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
641	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
640	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
639	Search for WZ resonances in the fully leptonic channel using 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>2014</b> , 737, 223-243	4.2	52
638	Search for the Standard Model Higgs boson decay to $\mu\mu$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 738, 68-86	4.2	52
637	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
636	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
635	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
634	Search for new phenomena with the monojet and missing transverse momentum signature using the ATLAS detector in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 294-312	4.2	52
633	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
632	Measurement of Z boson production in Pb-Pb collisions at $\sqrt{s(NN)}=2.76$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2013</b> , 110, 022301	7.4	51
631	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
630	Machine Learning in High Energy Physics Community White Paper. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1085, 022008	0.3	51
629	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
628	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
627	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in [Formula: see text] TeV [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 208	4.2	50
626	Study of jet shapes in inclusive jet production in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	50

625	b-tagging in DELPHI at LEP. <i>European Physical Journal C</i> , <b>2004</b> , 32, 185-208	4.2	50
624	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 303	4.2	49
623	Measurement of charged-particle spectra in Pb+Pb collisions at ( $\sqrt{s_{\mathrm{NN}}}$ )=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
622	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
621	Measurements of W and Z production in pp collisions at s=7 TeV with the ATLAS detector at the LHC. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	49
620	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
619	Search for electroweak production of supersymmetric particles in final states with two or three leptons at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 995	4.2	49
618	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 538	4.2	48
617	Search for supersymmetry at [Formula: see text] 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
616	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
615	Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb of ( $\sqrt{s}$ = 7;TeV ) proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	48
614	Search for a light Higgs boson decaying to long-lived weakly interacting particles in proton-proton collisions at $\sqrt{s}$ = 7 TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 251801	7.4	48
613	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
612	Measurement of the prompt [Formula: see text] pair production cross-section in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 76	4.2	47
611	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
610	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
609	Single intermediate vector boson production in e + e - collisions * at ( $\sqrt{s}$ = )183-209 GeV. <i>European Physical Journal C</i> , <b>2006</b> , 45, 273-289	4.2	47
608	Search for a new resonance decaying to a or boson and a Higgs boson in the [Formula: see text] final states with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 263	4.2	46

607	Light-quark and gluon jet discrimination in [Formula: see text] collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3023	4.2	46
606	Search for lepton-flavour-violating H $\rightarrow$ H decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	46
605	Measurement of dijet azimuthal decorrelations in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 172002	7.4	46
604	Search for new phenomena in tt events with large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 041805	7.4	46
603	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
602	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
601	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
600	Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at [Formula: see text] TeV in 2010. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3034	4.2	45
599	Search for pair production of massive particles decaying into three quarks with the ATLAS detector in ( $\sqrt{s}=7;\mathrm{TeV}$ ) pp collisions at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	45
598	Search for magnetic monopoles in $\sqrt{s}=7$ TeV pp collisions with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 109, 261803	7.4	45
597	Measurement of the azimuthal angle dependence of inclusive jet yields in Pb+Pb collisions at ( $\sqrt{s_{NN}}=2.76$ TeV) with the ATLAS detector. <i>Physical Review Letters</i> , <b>2013</b> , 111, 152301	7.4	45
596	Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [Formula: see text] TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 318	4.2	44
595	Identification of boosted, hadronically decaying bosons and comparisons with ATLAS data taken at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 154	4.2	44
594	Measurement of isolated-photon pair production in pp collisions at ( $\sqrt{s}=7;\mathrm{TeV}$ ) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	44
593	Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at ( $\sqrt{s} = 7 \mathrm{TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	44
592	Search for the Standard Model Higgs boson in the H $\rightarrow$ WW(?) decay mode with 4.7 fb $^{-1}$ of ATLAS data at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 62-81	4.2	44
591	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
590	Measurement of underlying event characteristics using charged particles in pp collisions at $s=900$ GeV and 7 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	44



589	ATLAS sensitivity to $Wtb$ anomalous couplings in top quark decays. <i>European Physical Journal C</i> , <b>2008</b> , 53, 689-699	4.2	44
588	Angular analysis of $B \rightarrow D^* \ell \bar{\nu}_\ell$ 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
587	A Roadmap for HEP Software and Computing R&D for the 2020s. <i>Computing and Software for Big Science</i> , <b>2019</b> , 3, 1	6	43
586	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
585	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
584	Search for a heavy gauge boson decaying to a charged lepton and a neutrino in 1 fb $^{-1}$ of pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 28-46	4.2	43
583	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
582	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
581	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
580	Measurements of the electron and muon inclusive cross-sections in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 438-458	4.2	42
579	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
578	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
577	Measurement of the inclusive isolated prompt photon cross-section in pp collisions at $\sqrt{s}=7$ TeV using 35 pb $^{-1}$ of ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 706, 150-167	4.2	42
576	Further search for supersymmetry at $\sqrt{s}=7$ TeV in final states with jets, missing transverse momentum, and isolated leptons with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	42
575	Search for heavy resonances in the $t\bar{t}$ and $t\bar{t} + \text{jets}$ final states using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 293	4.2	41
574	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
573	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
572	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



571	Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in ( $\sqrt{s}=7\text{ TeV}$ ) proton-proton collisions with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	4 <sup>1</sup>
570	Study of jets produced in association with a W boson in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	4 <sup>1</sup>
569	Readiness of the ATLAS liquid argon calorimeter for LHC collisions. <i>European Physical Journal C</i> , <b>2010</b> , 70, 723-753	4.2	4 <sup>1</sup>
568	Study of ATLAS sensitivity to FCNC top decays. <i>European Physical Journal C</i> , <b>2007</b> , 52, 999-1019	4.2	4 <sup>1</sup>
567	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	4 <sup>0</sup>
566	Search for first generation scalar leptoquarks in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 158-176	4.2	4 <sup>0</sup>
565	Measurement of top quark polarization in top-antitop events from proton-proton collisions at $\sqrt{s}=7\text{ TeV}$ using the ATLAS detector. <i>Physical Review Letters</i> , <b>2013</b> , 111, 232002	7.4	4 <sup>0</sup>
564	Search for heavy long-lived charged particles with the ATLAS detector in pp collisions at $\sqrt{s}=7\text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 703, 428-446	4.2	4 <sup>0</sup>
563	Search for neutral MSSM Higgs bosons decaying to $\tau\tau$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 174-192	4.2	4 <sup>0</sup>
562	Study of multi-muon bundles in cosmic ray showers detected with the DELPHI detector at LEP. <i>Astroparticle Physics</i> , <b>2007</b> , 28, 273-286	2.4	4 <sup>0</sup>
561	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at $\sqrt{s}=2.76\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 199	4.2	3 <sup>9</sup>
560	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	3 <sup>9</sup>
559	Search for long-lived, heavy particles in final states with a muon and multi-track displaced vertex in proton-proton collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 280-298	4.2	3 <sup>9</sup>
558	Measurement of the inclusive isolated prompt photons cross section in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector using 4.6 fb <sup>-1</sup> . <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	3 <sup>9</sup>
557	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	3 <sup>9</sup>
556	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	3 <sup>9</sup>
555	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	3 <sup>8</sup>
554	Observation and measurements of the production of prompt and non-prompt $D^0$ mesons in association with a $W$ boson in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 229	4.2	3 <sup>8</sup>

553	Search for $tt\bar{t}$ resonances in the lepton plus jets final state with ATLAS using 4.7 fb <sup>-1</sup> of pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	38
552	Search for supersymmetry in events with four or more leptons in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	38
551	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
550	Measurement of the top quark pair cross section with ATLAS in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 89-108	4.2	38
549	Collider aspects of flavor physics at high Q. <i>European Physical Journal C</i> , <b>2008</b> , 57, 183-307	4.2	38
548	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at ( $\sqrt{s}=13$ ) (text {TeV}). <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	37
547	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
546	Search for pair production of heavy top-like quarks decaying to a high-pT W boson and a b quark in the lepton plus jets final state at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 1284-1302	4.2	37
545	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
544	A neural network clustering algorithm for the ATLAS silicon pixel detector. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P09009-P09009	1	37
543	Search for the lepton flavor violating decay $Z\rightarrow e\mu$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	37
542	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
541	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
540	Search for massive colored scalars in four-jet final states in ( $\sqrt{s}=7\sim 13$ TeV) proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	37
539	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
538	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
537	Searches for heavy long-lived sleptons and R-hadrons with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 277-308	4.2	36
536	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

535	Triggers for displaced decays of long-lived neutral particles in the ATLAS detector. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, P07015-P07015	1	36
534	Study of inclusive $J/\psi$ production in two-photon collisions at LEP II with the DELPHI detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 565, 76-86	4.2	36
533	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
532	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
531	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
530	Search for displaced vertices arising from decays of new heavy particles in 7 TeV pp collisions at ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 478-496	4.2	35
529	Search for extra dimensions using diphoton events in 7 TeV proton-proton collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 538-556	4.2	35
528	Search for FCNC single top-quark production at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 351-369	4.2	35
527	Search for long-lived, multi-charged particles in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 722, 305-323	4.2	35
526	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
525	Search for nonpointing and delayed photons in the diphoton and missing transverse momentum final state in 8 TeV pp collisions at the LHC using the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	35
524	Measurement of the isolated diphoton cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	35
523	Search for second generation scalar leptoquarks in pp 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	35
522	Search for direct slepton and gaugino production in final states with two leptons and missing transverse momentum with the ATLAS detector in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 879-901	4.2	35
521	Search for extra dimensions in diphoton events from proton-proton collisions at $\sqrt{s} = 7, 8$ TeV in the ATLAS detector at the LHC. <i>New Journal of Physics</i> , <b>2013</b> , 15, 043007	2.9	35
520	Search for one large extra dimension with the DELPHI detector at LEP. <i>European Physical Journal C</i> , <b>2009</b> , 60, 17-23	4.2	35
519	Measurement of the production cross section for W-bosons in association with jets in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 325-345	4.2	35
518	Search for gluinos in events with two same-sign leptons, jets, and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 108, 241802	7.4	35

517	Search for down-type fourth generation quarks with the ATLAS detector in events with one lepton and hadronically decaying W bosons. <i>Physical Review Letters</i> , <b>2012</b> , 109, 032001	7.4	35
516	Search for single top production via FCNC at LEP at $\sqrt{s}=189\text{--}208\text{ GeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2004</b> , 590, 21-34	4.2	35
515	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
514	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
513	Measurement of the transverse momentum distribution of W bosons in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	34
512	ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <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 $(\sqrt{s} = \{7\}; \text{TeV})$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	34
510	Search for contact interactions and large extra dimensions in dilepton events from pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	34
509	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 565	4.2	34
508	Measurement of the WW cross section in $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 289-308	4.2	33
507	Measurement of angular correlations in Drell-Yan lepton pairs to probe Z/ $\gamma$ boson transverse momentum at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 32-51	4.2	33
506	Search for light top squark pair production in final states with leptons and b-jets with the ATLAS detector in $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 13-31	4.2	33
505	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
504	Search for charged Higgs bosons in the $H \rightarrow \tau\bar{\tau}$ 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
503	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb $^{-1}$ of $(\sqrt{s}=13)$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	33
502	Search for charged Higgs bosons decaying via $H \rightarrow \tau\bar{\tau}$ in the $\tau\tau$ and $\tau\mu$ final states with 36 fb $^{-1}$ 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
501	Measurement of the top quark mass in the $t\bar{t} \rightarrow \mu\mu$ and $t\bar{t} \rightarrow \mu\tau$ channels using 36.1 fb $^{-1}$ of ATLAS data. <i>European Physical Journal C</i> , <b>2015</b> , 75, 330	4.2	32
500	Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 18	4.2	32

499	Search for the Higgs boson in the $H \rightarrow WW^{(*)} \rightarrow \ell^+ \ell^-$ decay channel in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111802	7.4	3 <sup>2</sup>
498	Study of W-boson polarisations and triple gauge boson couplings in the reaction $e^+e^- \rightarrow W^+W^-$ at LEP 2. <i>European Physical Journal C</i> , <b>2008</b> , 54, 345-364	4.2	3 <sup>2</sup>
497	Search for pair production of Higgs bosons in the $(\overline{b}b)$ 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	3 <sup>1</sup>
496	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	3 <sup>1</sup>
495	Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	3 <sup>1</sup>
494	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	3 <sup>1</sup>
493	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	3 <sup>1</sup>
492	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	3 <sup>1</sup>
491	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	3 <sup>1</sup>
490	A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at $(\sqrt{s}=7\text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	3 <sup>1</sup>
489	Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in $(\sqrt{s}=7 \text{ TeV})$ proton-proton collisions. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	3 <sup>1</sup>
488	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	3 <sup>1</sup>
487	Search for tb resonances in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 109, 081801	7.4	3 <sup>1</sup>
486	Measurements of b-jet tagging efficiency with the ATLAS detector using $(\overline{t}t)$ events at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	3 <sup>1</sup>
485	Search for top quark decays $t \rightarrow qH$ with $H \rightarrow \mu\mu$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014,	5.4	3 <sup>0</sup>
484	Measurement of the cross section for the production of a W boson in association with b-jets in pp collisions at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 418-437	4.2	3 <sup>0</sup>
483	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	3 <sup>0</sup>
482	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	3 <sup>0</sup>



481	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
480	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
479	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
478	Search for high mass dilepton resonances in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 700, 163-180	4.2	30
477	Measurement of the production cross section of an isolated photon associated with jets in proton-proton collisions at $s=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	30
476	Search for supersymmetry in events with three leptons and missing transverse momentum in [ $\sqrt{s}$ ]=7 TeV pp collisions with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 261804	7.4	30
475	Searches for invisibly decaying Higgs bosons with the DELPHI detector at LEP. <i>European Physical Journal C</i> , <b>2004</b> , 32, 475-492	4.2	30
474	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
473	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
472	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
471	Search for heavy vector-like quarks coupling to light quarks in proton-proton collisions at $s=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 22-39	4.2	29
470	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
469	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
468	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
467	Search for supersymmetry in pp collisions at $s=7$ TeV in final states with missing transverse momentum and b-jets with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	29
466	Measurement of the ZZ production cross section and limits on anomalous neutral triple gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 041804	7.4	29
465	Final results from DELPHI on the searches for SM and MSSM neutral Higgs bosons. <i>European Physical Journal C</i> , <b>2004</b> , 32, 145-183	4.2	29
464	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



463	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
462	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
461	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
460	Measurement of the production cross section for $Z/\gamma$ in association with jets in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	28
459	Search for massive long-lived highly ionising particles with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 353-370	4.2	28
458	Measurement of the mass and width of the W boson in e+e- collisions at $(\sqrt{s}) = 161\text{--}209$ GeV. <i>European Physical Journal C</i> , <b>2008</b> , 55, 1	4.2	28
457	Measurement of the W-pair production cross-section and W branching ratios in e + e - collisions at $(\sqrt{s}) = 161\text{--}209$ GeV. <i>European Physical Journal C</i> , <b>2004</b> , 34, 127-144	4.2	28
456	Search for minimal supersymmetric standard model Higgs Bosons $H/A$ 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
455	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
454	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
453	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
452	A search for prompt lepton-jets in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 299-317	4.2	27
451	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
450	Search for a standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel with the ATLAS detector. <i>Physical Review Letters</i> , <b>2011</b> , 107, 221802	7.4	27
449	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
448	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
447	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
446	Measurement of $\ell_1$ and $\ell_2$ 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

445	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
444	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
443	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
442	Search for pair production of a heavy up-type quark decaying to a W boson and a b quark in the lepton + jets channel with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 261802	7.4	26
441	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
440	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
439	Search for displaced muonic lepton jets from light Higgs boson decay in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 721, 32-50	4.2	25
438	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
437	Measurement of the cross section for inclusive isolated-photon 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>2017</b> , 770, 473-493	4.2	25
436	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
435	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
434	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
433	A study of the b-quark fragmentation function with the DELPHI detector at LEP I and an averaged distribution obtained at the Z Pole. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	25
432	Constraints on the $Wtb$ vertex from early LHC data. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	25
431	Measurement of the $B_0$ decay form factor. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2004</b> , 585, 63-84	4.2	25
430	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
429	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
428	Measurement of the top quark mass in the ( $t\bar{t} \rightarrow \ell^+\ell^-b\bar{b}$ ) 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

427	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
426	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
425	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
424	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
423	Dynamics of isolated-photon plus jet production in pp collisions at . <i>Nuclear Physics B</i> , <b>2013</b> , 875, 483-535.	5.8	24
422	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
421	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s}=7$ TeV pp collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 841-859	4.2	24
420	Properties of jets measured from tracks in proton-proton collisions at center-of-mass energy $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	24
419	Search for anomalous production of prompt like-sign muon pairs and constraints on physics beyond the standard model with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	24
418	Measurement and interpretation of fermion-pair production at LEP energies above the Z resonance. <i>European Physical Journal C</i> , <b>2006</b> , 45, 589-632	4.2	24
417	Measurement of the ( $e^+ + e^- \rightarrow W^+ + W^- \gamma$ ) cross-section and limits on anomalous quartic gauge couplings with DELPHI. <i>European Physical Journal C</i> , <b>2003</b> , 31, 139-147	4.2	24
416	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
415	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
414	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
413	Measurement of the cross-section for b-jets produced in association with a Z boson at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 706, 295-313	4.2	23
412	Time-dependent angular analysis of the decay $B_s^0 \rightarrow J/\psi \phi$ and extraction of $\beta_s$ and the CP-violating weak phase $\varphi_s$ by ATLAS. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012,	5.4	23
411	Search for the Standard Model Higgs boson produced in association with a vector boson and decaying to a b-quark pair with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 369-390	4.2	23
410	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

409	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
408	Search for pair production of a new $b'$ quark that decays into a Z boson and a bottom quark with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 109, 071801	7.4	23
407	Measurement of $ V_{cb} $ using the semileptonic decay $\overline{B}^0 \rightarrow D^+ \ell^- \overline{\nu}_\ell$ . <i>European Physical Journal C</i> , <b>2004</b> , 33, 213-232	4.2	23
406	Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb of collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 401	4.2	23
405	Search for Higgs boson pair production in the $(\gamma\gamma b\overline{b})$ 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
404	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
403	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
402	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
401	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
400	Search for $W W/W Z$ resonance production in $b\overline{b}q$ 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
399	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
398	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
397	A search for high-mass resonances decaying to $b\overline{b}$ 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
396	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
395	Search for new phenomena in the $W \rightarrow \ell \nu$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 860-878	4.2	22
394	Search for the Higgs boson in the $H \rightarrow WW \rightarrow \ell\ell$ decay channel in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2011</b> , 107, 231801	7.4	22
393	Determination of heavy quark non-perturbative parameters from spectral moments in semileptonic B decays. <i>European Physical Journal C</i> , <b>2006</b> , 45, 35-59	4.2	22
392	Search for supersymmetric particles assuming R-parity non-conservation in $e^+ e^-$ collisions at $(\sqrt{s} = 192)$ to 208 GeV. <i>European Physical Journal C</i> , <b>2004</b> , 36, 1-23	4.2	22

391	The measurement of $\langle\alpha_s\rangle$ from event shapes with the DELPHI detector at the highest LEP energies. <i>European Physical Journal C</i> , <b>2004</b> , 37, 1-23	4.2	22
390	Search for supersymmetric particles in light gravitino scenarios and sleptons NLSP. <i>European Physical Journal C</i> , <b>2003</b> , 27, 153-172	4.2	22
389	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
388	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
387	Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 79	4.2	21
386	Measurements of fiducial cross-sections for $t\bar{t}$ production with one or two additional -jets in collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 11	4.2	21
385	Studying the $Wtb$ vertex structure using recent LHC results. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	21
384	Flavor tagged time-dependent angular analysis of the $B_{s0}\rightarrow J/\psi$ decay and extraction of $\beta$ and the weak phase $\varphi_s$ in ATLAS. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	21
383	Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in $\sqrt{s}=13$ TeV collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3195	4.2	21
382	Search for pair-produced heavy quarks decaying to $Wq$ in the two-lepton channel at $(\sqrt{s}=7)$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	21
381	Study of triple-gauge-boson couplings $ZZZ$ , $ZZ\gamma$ and $Z\gamma\gamma$ at LEP. <i>European Physical Journal C</i> , <b>2007</b> , 51, 525-542	4.2	21
380	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
379	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
378	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
377	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
376	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
375	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
374	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



373	Measurement of $(W^{\pm}Z)$ production cross sections and gauge boson polarisation in pp collisions at $(\sqrt{s} = 13\text{ TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	20
372	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
371	Interpretation of vector-like quark searches: heavy gluons in composite Higgs models. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	20
370	$K_S^0$ and $\pi^0$ production in pp interactions at $\sqrt{s}=0.9$ and 7 TeV measured with the ATLAS detector at the LHC. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	20
369	Search for the Standard Model Higgs boson in the two photon decay channel with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 452-470	4.2	20
368	ATLAS measurements of the properties of jets for boosted particle searches. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	20
367	A study of the material in the ATLAS inner detector using secondary hadronic interactions. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, P01013-P01013	1	20
366	Search for fermiophobic Higgs bosons in final states with photons at LEP 2. <i>European Physical Journal C</i> , <b>2004</b> , 35, 313-324	4.2	20
365	$ZZ$ production in $e + e^-$ interactions at $(\sqrt{s} = 183\text{--}209\text{ GeV})$ . <i>European Physical Journal C</i> , <b>2003</b> , 30, 447-466	4.2	20
364	Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 565	4.2	20
363	Measurement of the boson polarisation in $t\bar{t}$ events from collisions at $\sqrt{s} = 8\text{ TeV}$ in the lepton+jets channel with ATLAS. <i>European Physical Journal C</i> , <b>2017</b> , 77, 264	4.2	19
362	Performance of top-quark and $(W)$ -boson tagging with ATLAS in Run 2 of the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	19
361	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
360	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
359	Search for diphoton events with large missing transverse momentum in 7 TeV proton-proton collision data with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 411-430	4.2	19
358	Measurement of $D^*\pi$ meson production in jets from pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	19
357	Charged-particle distributions in interactions at $\sqrt{s}=13\text{ TeV}$ measured with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 403	4.2	19
356	Measurement of three-jet production cross-sections in $t\bar{t}$ collisions at $\sqrt{s}=7\text{ TeV}$ centre-of-mass energy using the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 228	4.2	18



355	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
354	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
353	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
352	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
351	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
350	Measurement of the $W\Xi Z$ production cross section and limits on anomalous triple gauge couplings in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 341-357	4.2	18
349	Search for diphoton events with large missing transverse momentum in 1 fb <sup>-1</sup> of 7 TeV proton-proton collision data with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 519-537	4.2	18
348	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
347	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
346	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
345	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
344	Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at ( $\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	18
343	Search for resonant diboson production in the $WW/WZ\rightarrow\ell\ell$ decay channels with the ATLAS detector at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	18
342	Search for the Standard Model Higgs boson in the decay channel $H\rightarrow\ell\ell$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 435-451	4.2	18
341	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
340	Measurement of the $Z\rightarrow\ell\ell$ cross section with the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	18
339	Measurements of CP-conserving trilinear gauge boson couplings $WWV$ ( $V=\gamma,Z$ ) in $e+e\rightarrow\ell\ell$ collisions at LEP2. <i>European Physical Journal C</i> , <b>2010</b> , 66, 35-56	4.2	18
338	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

337	Searches for heavy ZZ and ZW resonances in the $\bar{b}q$ and $b\bar{q}$ 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	17
336	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
335	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
334	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
333	Measurement of the parity-violating asymmetry parameter $A_{FB}^b$ and the helicity amplitudes for the decay $B^0 \rightarrow \pi^0 \ell^+ \ell^-$ with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	17
332	Measurement of the b-hadron production cross section using decays to $\tau$ . <i>Nuclear Physics B</i> , <b>2012</b> , 864, 341-381	2.8	17
331	Measurement of the $B^0$ lifetime and mass in the ATLAS experiment. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	17
330	Measurement of the $\alpha_s$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 9-27	4.2	17
329	Search for diphoton events with large missing transverse energy in 7 TeV proton-proton collisions with the ATLAS detector. <i>Physical Review Letters</i> , <b>2011</b> , 106, 121803	7.4	17
328	Evidence for an excess of soft photons in hadronic decays of $Z^0$ . <i>European Physical Journal C</i> , <b>2006</b> , 47, 273-294	4.2	17
327	Search for $(B^0_{s,d})$ oscillations and a measurement of $(B^0_{d,s})$ oscillations using events with an inclusively reconstructed vertex. <i>European Physical Journal C</i> , <b>2003</b> , 28, 155-173	4.2	17
326	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
325	EFTfitter: a tool for interpreting measurements in the context of effective field theories. <i>European Physical Journal C</i> , <b>2016</b> , 76, 1	4.2	17
324	Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s}=13$ 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
323	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
322	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
321	Search for the Standard Model Higgs boson decaying into $(\bar{b}b)$ 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
320	Search for strong gravity signatures in same-sign dimuon final states using the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 322-340	4.2	16

319	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
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317	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
316	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
315	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
314	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
313	Measurement of the production cross-section of ( $2S$ ) $\rightarrow \ell^+\ell^-$ 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
312	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
311	Search for scalar top quark pair production in natural gauge mediated supersymmetry models with the ATLAS detector in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 715, 44-60	4.2	16
310	Measurement of $W$ and $Z$ production cross sections in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 49-69	4.2	16
309	Search for excited electrons and muons in $\sqrt{s}=8$ TeV proton-proton collisions with the ATLAS detector. <i>New Journal of Physics</i> , <b>2013</b> , 15, 093011	2.9	16
308	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
307	Search for pair production of first or second generation leptoquarks in proton-proton collisions at $\sqrt{s}=7$ TeV using the ATLAS detector at the LHC. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	16
306	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
305	Search for the Higgs boson produced in association with a boson and decaying to four $b$ -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
304	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
303	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
302	Search for pair production of heavy vector-like quarks decaying into high- $p_T$ $W$ 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

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300	Determination of spin and parity of the Higgs boson in the $[ \text{Formula: see text} ]$ decay channel with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 231	4.2	15
299	Monitoring and data quality assessment of the ATLAS liquid argon calorimeter. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P07024-P07024	1	15
298	Search for a heavy Standard Model Higgs boson in the channel $H \rightarrow ZZ \rightarrow 4\ell$ using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 27-45	4.2	15
297	Search for new particles decaying to $ZZ$ using final states with leptons and jets with the ATLAS detector in $\sqrt{s}=7$ TeV proton-proton collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 331-350	4.2	15
296	A search for high-mass resonances decaying to $\ell\ell$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 242-260	4.2	15
295	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
294	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
293	Measurements of $\Upsilon(2S)$ and $X(3872) \rightarrow J/\psi \eta$ 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
292	Measurement of production with the hadronically decaying boson reconstructed as one or two jets in collisions at $\sqrt{s}=7$ TeV with ATLAS, and constraints on anomalous gauge couplings. <i>European Physical Journal C</i> , <b>2017</b> , 77, 563	4.2	15
291	Determination of the top-quark pole mass using $(\overline{t}t) + 1\text{-jet}$ 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
290	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
289	Search for diphoton events with large missing transverse energy with 36 pb $^{-1}$ 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
288	Search for resonant top quark plus jet production in $t\bar{t} + \text{jets}$ events with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	15
287	Study of b-quark mass effects in multijet topologies with the DELPHI detector at LEP. <i>European Physical Journal C</i> , <b>2008</b> , 55, 525-538	4.2	15
286	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
285	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
284	Finding new physics without learning about it: anomaly detection as a tool for searches at colliders. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	15

283	Measurement of the [Formula: see text] and [Formula: see text] production cross sections in multilepton final states using 3.2 fb[Formula: see text] of [Formula: see text] collisions at [Formula: see text] = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 40	4.2	14
282	Measurements of electroweak [Formula: see text] 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
281	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
280	Measurement of the ( $\overline{t}t$ ) 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
279	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
278	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
277	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
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275	Angular distributions in $t\bar{t}H(H\rightarrow b\bar{b})$ reconstructed events at the LHC. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	14
274	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
273	A search for [Formula: see text] resonances with the ATLAS detector in 2.05 fb of proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2083	4.2	14
272	Search for new phenomena in events with three charged leptons at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	14
271	Search for a heavy particle decaying into an electron and a muon with the ATLAS detector in $\sqrt{s}=7$ TeV pp collisions at the LHC. <i>Physical Review Letters</i> , <b>2011</b> , 106, 251801	7.4	14
270	Commissioning of the ATLAS Muon Spectrometer with cosmic rays. <i>European Physical Journal C</i> , <b>2010</b> , 70, 875-916	4.2	14
269	Performance of the ATLAS detector using first collision data. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1	5.4	14
268	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
267	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H\rightarrow a\bar{a}\rightarrow b\bar{b}$ 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
266	Measurements of top-quark pair differential cross-sections in the [Formula: see text] channel in collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 292	4.2	13



265	High-ET isolated-photon plus jets production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Nuclear Physics B</i> , <b>2017</b> , 918, 257-316	2.8	13
264	Search for triboson [Formula: see text] production in collisions at [Formula: see text] [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 141	4.2	13
263	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
262	Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW^* \rightarrow e\bar{e}$ with the ATLAS detector at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	13
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260	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
259	Addendum to Measurement of the $(t\bar{t})$ production cross-section using (emu) events with b-tagged jets in pp collisions at $(\sqrt{s}) = 7$ and 8 (TeV) with the ATLAS detector [European Physical Journal C, <b>2016</b> , 76, 1	4.2	13
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257	Standalone vertex finding in the ATLAS muon spectrometer. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P02001, P02001, 13		
256	Search for a heavy narrow resonance decaying to $e\bar{e}$ or $\mu\bar{\mu}$ with the ATLAS detector in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 723, 15-32	4.2	13
255	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
254	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
253	Search for excited leptons in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	13
252	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
251	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
250	Search for nonpointing photons in the diphoton and $E_{T\text{miss}}$ final state in $\sqrt{s}=7$ TeV proton-proton collisions using the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	13
249	Search for microscopic black holes in a like-sign dimuon final state using large track multiplicity with the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	13
248	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



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246	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
245	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
244	The Laser calibration of the ATLAS Tile Calorimeter during the LHC run 1. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, T10005-T10005	1	13
243	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
242	Operation and performance of the ATLAS Tile Calorimeter in Run1. <i>European Physical Journal C</i> , <b>2018</b> , 78, 987	4.2	13
241	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
240	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
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238	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
237	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
236	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
235	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
234	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
233	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
232	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
231	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
230	Operation and performance of the ATLAS semiconductor tracker. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P08009-P08009	1	12

229	Measurement of the $\Lambda$ b lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 706, 276-294	4.2	12
228	Trade of live bait in Portugal and risks of introduction of non-indigenous species associated to importation. <i>Ocean and Coastal Management</i> , <b>2017</b> , 146, 121-128	3.9	12
227	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
226	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
225	Search for top quark decays $t \rightarrow qH$ , with $H \rightarrow \gamma\gamma$ 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
224	Measurements of top quark spin observables in ( $t\bar{t}$ ) 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
223	Search for a multi-Higgs-boson cascade in $W+W\bar{b}b$ events with the ATLAS detector in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	12
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221	Search for a standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel using 4.7fb <sup>-1</sup> of $\sqrt{s}=7$ TeV data with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 29-48	4.2	12
220	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
219	Low-amplitude rotational modulation rather than pulsations in the CoRoT B-type supergiant HD 46769. <i>Astronomy and Astrophysics</i> , <b>2013</b> , 557, A114	5.1	12
218	Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons. <i>European Physical Journal C</i> , <b>2010</b> , 70, 755-785	4.2	12
217	Investigation of Colour Reconnection in WW events with the DELPHI detector at LEP-2. <i>European Physical Journal C</i> , <b>2007</b> , 51, 249	4.2	12
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215	Search for charged Higgs bosons in $e^+e^-$ collisions at $\sqrt{s}=189$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2002</b> , 525, 17-28	4.2	12
214	Search for an LSP gluino at LEP with the DELPHI detector. <i>European Physical Journal C</i> , <b>2003</b> , 26, 505-525	4.2	12
213	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
212	Direct top-quark decay width measurement in the lepton+jets channel at $\sqrt{s}=13$ TeV with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 129	4.2	11

211	Measurement of lepton differential distributions and the top quark mass in production in collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 804	4.2	11
210	Probing the $Wtb$ 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
209	Study of $W$ production in collisions at $\sqrt{s}=7$ 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
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207	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
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205	Underlying event characteristics and their dependence on jet size of charged-particle jet events in pp collisions at $(\sqrt{s}=7)$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	11
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202	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
201	Measurements of integrated and differential cross sections for isolated photon pair production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	10
200	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
199	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
198	Measurement of the CP-violating phase $\phi_1$ and the $B^0$ meson decay width difference with $B^0 \rightarrow J/\psi$ decays in ATLAS. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	10
197	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
196	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
195	Measurement of the cross section of high transverse momentum $Z\text{-}b\bar{b}$ production in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 738, 25-43	4.2	10
194	Study of heavy-flavor quarks produced in association with top-quark pairs at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	10

193	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
192	Search for events with large missing transverse momentum, jets, and at least two tau leptons in 7 TeV proton-proton collision data with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 714, 180-196	4.2	10
191	Search for the Higgs boson in the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 391-410	4.2	10
190	Measurement of charged-particle event shape variables in inclusive ( $\sqrt{s}$ )=7 TeV proton-proton interactions with the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	10
189	A study of ( $\bar{b}b$ ) production in e+e- collisions at ( $\sqrt{s}$ )=130) $\pm$ 07 GeV. <i>European Physical Journal C</i> , <b>2009</b> , 60, 1-15	4.2	10
188	Study of the dependence of direct soft photon production on the jet characteristics in hadronic Z 0 decays. <i>European Physical Journal C</i> , <b>2010</b> , 67, 343-366	4.2	10
187	Search for $\tilde{B}$ in two-photon collisions at LEP II with the DELPHI detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2006</b> , 634, 340-346	4.2	10
186	Search for excited leptons in e+e- collisions at ( $\sqrt{s}$ )=189 $\pm$ 09 GeV. <i>European Physical Journal C</i> , <b>2006</b> , 46, 277	4.2	10
185	A precise measurement of the tau lifetime. <i>European Physical Journal C</i> , <b>2004</b> , 36, 283-296	4.2	10
184	Determination of the ( $e^+ + e^- \rightarrow \gamma \gamma$ ( $\gamma \gamma$ )) cross-section at LEP 2. <i>European Physical Journal C</i> , <b>2004</b> , 37, 405-419	4.2	10
183	Measurement of the energy dependence of hadronic jet rates and the strong coupling ( $\alpha_s$ ) from the four-jet rate with the DELPHI detector at LEP. <i>European Physical Journal C</i> , <b>2005</b> , 38, 413-426	4.2	10
182	Transferability of deep learning models in searches for new physics at colliders. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	10
181	Fish communities' response to implementation of restoring measures in a highly artificialized estuary. <i>Ecological Indicators</i> , <b>2016</b> , 67, 743-752	5.8	10
180	Search for single . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 721, 171-189	4.2	9
179	Measurement of the ZZ production cross section in proton-proton collisions at ( $\sqrt{s}$ )=8 TeV using the ZZ $\rightarrow \mu\mu +$ and (ZZto $\{\ell\}^+ \{\ell\}^+ \nu \overline{\nu}$ ) decay channels with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	9
178	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
177	Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb $^{-1}$ 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
176	Search for a Standard Model Higgs boson in the mass range 200 $\pm$ 00GeV in the H-ZZ $\rightarrow$ qq decay channel with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 70-88	4.2	9

175	Temperature-dependent quenching of UV fluorescence of N <sub>2</sub> . <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2008</b> , 597, 75-82	1.2	9
174	Effect of deformation and annealing on the microstructure and magnetic properties of grain-oriented electrical steels. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 304, e617-e619	2.8	9
173	Bose-Einstein Correlations in W <sup>+</sup> W <sup>-</sup> events at LEP2. <i>European Physical Journal C</i> , <b>2005</b> , 44, 161-174	4.2	9
172	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
171	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4(ell) decay channel at ( $\sqrt{s}$ ) = 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	9
170	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
169	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
168	Measurement of V <sub>H</sub> , ( $\mathrm{H} \rightarrow \mathrm{b} \overline{\mathrm{b}}$ ) 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
167	The Lusitanian toadfish as bioindicator of estuarine sediment metal burden: The influence of gender and reproductive metabolism. <i>Ecological Indicators</i> , <b>2015</b> , 48, 370-379	5.8	8
166	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
165	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
164	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
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162	Search for scalar resonances decaying into $\mu\mu$ in 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
161	A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at $\sqrt{s}$ =7TeV with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 708, 221-240	4.2	8
160	Search for contact interactions in dilepton events from pp collisions at $\sqrt{s}$ =7TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 40-58	4.2	8
159	Measurement of splitting scales in $W \rightarrow \ell \bar{\nu}_\ell$ events at [ <i>Formula: see text</i> ] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2432	4.2	8
158	Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [ <i>Formula: see text</i> ][ <i>Formula: see text</i> ][ <i>Formula: see text</i> ] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 144	4.2	8



157	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
156	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
155	Observation of the muon inner bremsstrahlung at LEP1. <i>European Physical Journal C</i> , <b>2008</b> , 57, 499-514	4.2	8
154	Searches for neutral Higgs bosons in $(e^+e^-)$ collisions from $(\sqrt{s} = 191.6)$ to 201.7 GeV. <i>European Physical Journal C</i> , <b>2002</b> , 23, 409-435	4.2	8
153	Production of $(\chi_{c^0})$ and $(\chi_b)$ in Z decays and lifetime measurement of $(\chi_b)$ . <i>European Physical Journal C</i> , <b>2005</b> , 44, 299-309	4.2	8
152	Search for technicolor with DELPHI. <i>European Physical Journal C</i> , <b>2001</b> , 22, 17-29	4.2	8
151	Evidence for $(t\bar{t})$ production in the multilepton final state in proton-proton collisions at $(\sqrt{s}=13)$ (TeV) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	8
150	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
149	Novel interpretation strategy for searches of singly produced vectorlike quarks at the LHC. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	8
148	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
147	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
146	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 $(\text{fb}^{-1})$ 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
145	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
144	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
143	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 $\text{fb}^{-1}$ 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
142	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
141	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
140	Measurements of inclusive and differential fiducial cross-sections of $(t\bar{t})\gamma$ production in leptonic final states at $(\sqrt{s}=13\sim\text{TeV})$ in ATLAS. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	7

139	Search for new phenomena in high-mass final states with a photon and a jet from collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 102	4.2	7
138	Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV recorded with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 683	4.2	7
137	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
136	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
135	Measurement of the $(\overline{t}\gamma)$ 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
134	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
133	Changes in fish assemblage structure after implementation of Marine Protected Areas in the south western coast of Portugal. <i>Ocean and Coastal Management</i> , <b>2017</b> , 135, 103-112	3.9	7
132	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
131	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
130	Studies of $Z\gamma$ 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
129	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
128	A determination of the centre-of-mass energy at LEP2 using radiative two-fermion events. <i>European Physical Journal C</i> , <b>2006</b> , 46, 295-305	4.2	7
127	Search for resonant $(\tilde{\nu})$ production at $\sqrt{s} = 183$ to 208 GeV. <i>European Physical Journal C</i> , <b>2003</b> , 28, 15-26	4.2	7
126	Flavour independent searches for hadronically decaying neutral Higgs bosons. <i>European Physical Journal C</i> , <b>2005</b> , 44, 147-159	4.2	7
125	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
124	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $(\ell\ell b\bar{b})$ and $(\ell\ell W W)$ 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
123	Measurement of the $[ \text{Formula: see text} ]$ dijet cross section in collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 670	4.2	7
122	Search for new phenomena in different-flavour high-mass dilepton final states in collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 541	4.2	7

121	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
120	Measurements of WH and ZH production in the (H $\rightarrow$ $b\bar{b}$ ) decay channel in pp collisions at (13, text {T}text {V}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	7
119	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
118	Polychaete annelids as live bait in Portugal: Harvesting activity in brackish water systems. <i>Ocean and Coastal Management</i> , <b>2019</b> , 181, 104890	3.9	6
117	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
116	Search for supersymmetry in events with photons, bottom quarks, and missing transverse momentum in proton-proton collisions at a centre-of-mass energy of 7 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 261-279	4.2	6
115	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
114	Top-quark mass measurement in the all-hadronic ( $t\bar{t}$ ) 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
113	Search for supersymmetry with jets, missing transverse momentum and at least one hadronically decaying $\tau$ lepton in proton-proton collisions at $\sqrt{s}$ = 7 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 714, 197-214	4.2	6
112	Search for contact interactions in dimuon events from pp collisions at $\sqrt{s}$ = 7 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	6
111	Study of leading hadrons in gluon and quark fragmentation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2006</b> , 643, 147-157	4.2	6
110	Measurement of the forward-backward asymmetries of ( $e^+ + e^- \rightarrow Z \rightarrow b\bar{b}$ ) and ( $e^+ + e^- \rightarrow Z \rightarrow c\bar{c}$ ) using prompt leptons. <i>European Physical Journal C</i> , <b>2004</b> , 34, 109-125	4.2	6
109	Search for ( $B^0_s$ ) - ( $\bar{B}^0_s$ ) oscillations in DELPHI using high- $p_T$ leptons. <i>European Physical Journal C</i> , <b>2004</b> , 35, 35-52	4.2	6
108	Search for ( $t\bar{t}$ ) resonances in fully hadronic final states in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	6
107	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
106	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
105	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\tau$ 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
104	Use of a generalized energy Mover distance in the search for rare phenomena at colliders. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	6

103	Measurement of the ( $Z\gamma \rightarrow \nu \bar{\nu}$ ) 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
102	Search for exclusive Higgs and Z boson decays to $\tau^+\tau^-$ and $\mu^+\mu^-$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
101	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 [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 220	4.2	5
100	Changes in trophic ecology of fish assemblages after no take Marine Protected Area designation in the southwestern coast of Portugal. <i>Ocean and Coastal Management</i> , <b>2017</b> , 137, 144-153	3.9	5
99	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
98	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
97	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
96	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
95	Trophic ecology of a coastal fish assemblage in Portuguese waters. <i>Journal of the Marine Biological Association of the United Kingdom</i> , <b>2013</b> , 93, 1151-1161	1.1	5
94	Search for pentaquarks in the hadronic decays of the Z boson with the DELPHI detector at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2007</b> , 653, 151-160	4.2	5
93	A precise measurement of the $B^+$ , $B^0$ and mean b-hadron lifetime with the DELPHI detector at LEP I. <i>European Physical Journal C</i> , <b>2004</b> , 33, 307-324	4.2	5
92	Measurement of inclusive $f_1(1285)$ and $f_1(1420)$ production in Z decays with the DELPHI detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 569, 129-139	4.2	5
91	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
90	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
89	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
88	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb $^{-1}$ of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	5
87	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
86	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

85	Measurement of the relative width difference of the $(\{B\}^{\text{0hbox{-}}}\{\overline{B}\}^0)$ system with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	5
84	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
83	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
82	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
81	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
80	Measurement of jet activity in top quark events using the eFinal 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
79	Coherent soft particle production in Z decays into three jets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2005</b> , 605, 37-48	4.2	4
78	. <i>European Physical Journal C</i> , <b>2005</b> , 44, 311-331	4.2	4
77	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
76	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	4
75	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
74	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
73	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
72	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
71	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
70	Publisher's Note: Constraints on the $Wtb$ vertex from early LHC data [Phys. Rev. D 83, 117301 (2011)]. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	3
69	Search for a fourth generation b quark at LEP-II at $(\sqrt{s}=, )196\text{--}209$ GeV. <i>European Physical Journal C</i> , <b>2007</b> , 50, 507-518	4.2	3
68	A measurement of the tau hadronic branching ratios. <i>European Physical Journal C</i> , <b>2006</b> , 46, 1-26	4.2	3



67	The $(\eta_c(2980))$ formation in two-photon collisions at LEP energies. <i>European Physical Journal C</i> , <b>2003</b> , 31, 481-489	4.2	3
66	Inclusive $b \rightarrow c$ decays to wrong sign charmed mesons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 561, 26-40	4.2	3
65	Determination of $A_{FB}^b$ at the Z pole using inclusive charge reconstruction and lifetime tagging. <i>European Physical Journal C</i> , <b>2005</b> , 40, 1-25	4.2	3
64	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector <b>2015</b> , 75, 1		3
63	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider <b>2015</b> , 75, 1		3
62	Determination of jet calibration and energy resolution in proton-proton collisions at $(\sqrt{s} = 8\text{ TeV})$ using the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	3
61	Measurement of the inclusive jet cross-section in proton-proton collisions at $(\sqrt{s}=7\text{ TeV})$ using 4.5 fb <sup>-1</sup> of data with the ATLAS detector <b>2015</b> , 2015, 1		3
60	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
59	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 $(\sqrt{s}) = 13\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	3
58	Measurement of $W+W$ production in association with one jet in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 763, 114-133	4.2	3
57	Measurement of hadronic event shapes in high-pT multijet final states at $(\sqrt{s}) = 13\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	3
56	Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at $(\sqrt{s}) = 13\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	2
55	Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at $(\sqrt{s}=8\text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	2
54	$Z$ production in $e+e^-$ interactions at $(\sqrt{s} = 183\text{--}209\text{ GeV})$ . <i>European Physical Journal C</i> , <b>2007</b> , 51, 503-523	4.2	2
53	Masses, lifetimes and production rates of $\chi$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2006</b> , 639, 179-191	4.2	2
52	Study of double-tagged $\tau$ events at LEP II. <i>European Physical Journal C</i> , <b>2006</b> , 46, 559-568	4.2	2
51	Rapidity-alignment and pT compensation of particle pairs in hadronic $Z^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2002</b> , 533, 243-252	4.2	2
50	Diversity and patterns of marine non-native species in the archipelagos of Macaronesia. <i>Diversity and Distributions</i> ,	5	2

49	Measurement of the $(\overline{t})$ production cross-section using $(b)$ -tagged jets in $(pp)$ collisions at $(\sqrt{s}=7)$ and 8 TeV with the ATLAS detector <b>2014</b> , 74, 1		2
48	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
47	Study of interference effects in the search for flavour-changing neutral current interactions involving the top quark and a photon or a Z boson at the LHC. <i>European Physical Journal Plus</i> , <b>2020</b> , 135, 1	3.1	2
46	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
45	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
44	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
43	Search for supersymmetry in events with four or more charged leptons in 139 fb 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
42	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
41	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
40	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
39	Inclusive single-particle production in two-photon collisions at LEP II with the DELPHI detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2009</b> , 678, 444-449	4.2	1
38	Measurement of the azimuthal ordering of charged hadrons with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	1
37	Di-jet production in $pp$ collisions at LEP2. <i>European Physical Journal C</i> , <b>2008</b> , 58, 531-541	4.2	1
36	Project GIGA-high-speed experimental IP/WDM network		1
35	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
34	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
33	Search for top squarks in events with a Higgs or Z boson using 139 fb 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
32	Novel flavour-changing neutral currents in the top quark sector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1

31	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
30	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W^\pm$ and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	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
21	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
20	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
19	Deep Learning for the classification of quenched jets. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
18	Measurement of the $t(\bar{t})$ production cross section in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
17	Measurements of $W+W^\pm$ 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
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15	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	0
14	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	0

13	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	o
12	AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , <b>2022</b> , 6, 1	6	o
11	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \tau^{\pm} (\rightarrow \pi^{\pm} \nu_{\tau}) \nu_{\tau}$ events in Run2 data. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	o
10	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	o
9	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	o
8	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	o
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6	Correlations between polarisation states of W particles in the reaction $e^+e^- \rightarrow W^+W^-$ at LEP2 energies 189–209 GeV. <i>European Physical Journal C</i> , <b>2009</b> , 63, 611-623	4.2	
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4	Higgs boson searches in CP-conserving and CP-violating MSSM scenarios with the DELPHI detector. <i>European Physical Journal C</i> , <b>2008</b> , 54, 1	4.2	
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1	The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	