

Suen Ray Hou

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598
papers

19,145
citations

63
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106
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634
ext. papers

22,286
ext. citations

4.6
avg, IF

2.37
L-index

#	Paper	IF	Citations
598	The ATLAS Simulation Infrastructure. <i>European Physical Journal C</i> , 2010 , 70, 823-874	4.2	817
597	ATLAS pixel detector electronics and sensors. <i>Journal of Instrumentation</i> , 2008 , 3, P07007-P07007	1	389
596	Improved luminosity determination in collisions at [Formula: see text] using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2013 , 73, 2518	4.2	276
595	Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , 2017 , 77, 317	4.2	272
594	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at [Formula: see text]=13 TeV. <i>European Physical Journal C</i> , 2016 , 76, 292	4.2	263
593	Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	232
592	Performance of missing transverse momentum reconstruction in proton-proton collisions at ($\sqrt{s} = 7 \sim 13$ TeV) with ATLAS. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	217
591	Jet energy measurement with the ATLAS detector in proton-proton collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	209
590	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 299	4.2	202
589	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	199
588	The L3 silicon microvertex detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994 , 351, 300-312	1.2	195
587	Jet energy measurement and its systematic uncertainty in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 17	4.2	194
586	Luminosity determination in collisions at [Formula: see text] = 8 TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 653	4.2	188
585	Measurements of the Higgs boson production and decay rates and coupling strengths using collision data at [Formula: see text] and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , 2016 , 76, 6	4.2	185
584	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , 2017 , 77, 490	4.2	177
583	Luminosity determination in pp collisions at ($\sqrt{s} = 7$) TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	167
582	Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014 , 74, 3130	4.2	166

581	Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014 , 74, 2941	4.2	160
580	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. <i>European Physical Journal C</i> , 2014 , 74, 1	4.2	160
579	Search for new particles decaying into dijets in proton-antiproton collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , 2009 , 79,	4.9	159
578	Jet energy resolution in proton-proton collisions at [Formula: see text] recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2306	4.2	153
577	Search for an additional, heavy Higgs boson in the [Formula: see text] decay channel at [Formula: see text] in [Formula: see text] collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 45	4.2	152
576	Performance of pile-up mitigation techniques for jets in [Formula: see text] collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 581	4.2	148
575	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> , 2013 , 2013, 1	5.4	143
574	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> , 2011 , 71, 1	4.2	138
573	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> , 2017 , 2017, 1	5.4	126
572	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> , 2013 , 2013, 1	5.4	124
571	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at (\sqrt{s}) = 8TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	120
570	Search for charged Higgs bosons decaying via $H \rightarrow \tau \nu$ events using pp collision data at ($\sqrt{s} = 7$;TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	112
569	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. <i>European Physical Journal C</i> , 2015 , 75, 510	4.2	109
568	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> , 2014 , 2014, 1	5.4	108
567	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> , 2014 , 74, 3109	4.2	107
566	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 476	4.2	104
565	Search for doubly charged Higgs bosons in like-sign dilepton final states at ($\sqrt{s} = 7$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	104
564	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> , 2011 , 71, 1	4.2	103

563	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> , 2018 , 2018, 1	5.4	101
562	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> , 2015 , 75, 349	4.2	94
561	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> , 2013 , 2013, 1	5.4	92
560	Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	91
559	Search for high-mass resonances decaying to dimuons at CDF. <i>Physical Review Letters</i> , 2009 , 102, 091805	5.4	83
558	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> , 2012 , 72, 2043	4.2	82
557	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> , 2018 , 2018, 1	5.4	81
556	Measurement of the Z/ Γ boson transverse momentum distribution in pp collisions at ($\sqrt{s}=7$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	79
555	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> , 2012 , 72, 2039	4.2	78
554	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> , 2012 , 72, 2056	4.2	78
553	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> , 2014 , 2014, 1	5.4	76
552	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> , 2013 , 73, 2465	4.2	76
551	Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	74
550	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> , 2015 , 75, 209	4.2	73
549	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> , 2013 , 2013, 1	5.4	72
548	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> , 2013 , 73, 2509	4.2	71
547	Rapidity gap cross sections measured with the ATLAS detector in pp collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	70
546	Searches for scalar leptoquarks in collisions at [Formula: see text] = 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 5	4.2	68

545	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> , 2014 , 2014, 1	5-4	67
544	Jet mass and substructure of inclusive jets in ($\sqrt{s} = 7$;{text{TeV}}) pp collisions with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	67
543	Direct measurement of the W production charge asymmetry in pp collisions at square root $s=1.96$ TeV. <i>Physical Review Letters</i> , 2009 , 102, 181801	7-4	67
542	Search for Higgs boson pair production in the [Formula: see text] final state from collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 412	4-2	66
541	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> , 2015 , 2015, 1-39	5-4	66
540	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 903	4-2	66
539	Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	65
538	Search for the (\overline{b}) decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	64
537	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> , 2013 , 2013, 1	5-4	64
536	Measurement of the transverse momentum and [Formula: see text] distributions of Drell-Yan lepton pairs in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 291	4-2	63
535	Measurement of σ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 692, 232-239	4-2	63
534	Search for resonant diboson production in the [Formula: see text] final state in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 69	4-2	62
533	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2017 , 77, 195	4-2	61
532	Measurement of the forward-backward charge asymmetry from $W \rightarrow e\bar{\nu}$ production in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , 2005 , 71,	4-9	61
531	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> , 2015 , 75, 92	4-2	60
530	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> , 2011 , 2011, 1	5-4	60
529	Measurement of the Z -boson mass in pp collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 110	4-2	59
528	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> , 2016 , 2016, 1	5-4	59

527	Measurement of the $W \rightarrow \ell \bar{\nu}_\ell$ and $Z/\bar{\nu}_\ell \rightarrow \ell \bar{\nu}_\ell$ production cross sections in proton-proton collisions at ($\sqrt{s} = 7$; $\sqrt{s} = 8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5-4	58
526	A search for \tilde{t} resonances using lepton-plus-jets events in proton-proton collisions at ($\sqrt{s} = 8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	57
525	Search for charged Higgs bosons decaying via $H \rightarrow \ell \bar{\nu}_\ell$ 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> , 2015 , 2015, 1	5-4	56
524	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> , 2015 , 75, 335	4-2	56
523	Precision measurement and interpretation of inclusive τ and production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 367	4-2	56
522	The ATLAS semiconductor tracker end-cap module. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 575, 353-389 ^{1,2}		56
521	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 199	4-2	55
520	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> , 2013 , 2013, 1	5-4	55
519	Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at ($\sqrt{s} = 7$ mTeV). <i>European Physical Journal C</i> , 2013 , 73, 1	4-2	55
518	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> , 2015 , 2015, 1	5-4	55
517	Measurements of the $[t\bar{t}]$ production cross sections in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 82	4-2	54
516	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> , 2015 , 2015, 1	5-4	54
515	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> , 2014 , 2014, 1	5-4	54
514	Measurement of $W \rightarrow Z$ production in proton-proton collisions at ($\sqrt{s} = 7 \sim 8$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4-2	54
513	Search for squarks and gluinos in final states with jets and missing transverse momentum at $[t\bar{t}] = 13$ [GeV] with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 392	4-2	53
512	Search for new phenomena in events with at least three photons collected in collisions at $[t\bar{t}] = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 210	4-2	53
511	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> , 2012 , 2012, 1	5-4	53
510	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at ($\sqrt{s} = 7 \sim 8$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4-2	53

509	Study of the baryon-antibaryon low-mass enhancements in charmless three-body baryonic B decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005 , 617, 141-149	4.2	53
508	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. <i>European Physical Journal C</i> , 2016 , 76, 666	4.2	53
507	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> , 2014 , 2014, 1	5.4	52
506	Search for lepton-flavour-violating decays of the Higgs and bosons with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 70	4.2	52
505	Search for dark matter at [Formula: see text] in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 393	4.2	52
504	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> , 2014 , 74, 3157	4.2	52
503	Measurement of the W boson polarization in top quark decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	52
502	Performance of the ATLAS muon trigger in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2015 , 75, 120	4.2	51
501	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> , 2011 , 71, 1	4.2	51
500	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> , 2013 , 2013, 1	5.4	50
499	Evidence for the ($H \rightarrow \overline{b}b$) decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	50
498	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> , 2015 , 75, 208	4.2	50
497	Measurement of the lifetime difference between Bs mass eigenstates. <i>Physical Review Letters</i> , 2005 , 94, 101803	7.4	50
496	Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in ($\sqrt{s}=13$) (text {TeV}) pp collisions using the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	50
495	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 303	4.2	49
494	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> , 2015 , 2015, 1	5.4	49
493	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> , 2012 , 2012, 1	5.4	49
492	Search for resonances in diphoton events at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	49

491	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> , 2018 , 78, 995	4.2	49
490	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 538	4.2	48
489	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> , 2016 , 76, 259	4.2	48
488	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> , 2017 , 77, 428	4.2	48
487	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> , 2012 , 2012, 1	5.4	48
486	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> , 2018 , 2018, 1	5.4	48
485	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> , 2017 , 77, 76	4.2	47
484	Search for heavy resonances decaying into in the final state in collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 24	4.2	47
483	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> , 2013 , 2013, 1	5.4	47
482	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> , 2015 , 75, 263	4.2	46
481	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> , 2014 , 74, 3023	4.2	46
480	Search for lepton-flavour-violating $H \rightarrow \tau\tau$ decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	46
479	Search for long-lived charged massive particles in pp collisions at square root $s = 1.8$ TeV. <i>Physical Review Letters</i> , 2003 , 90, 131801	7.4	46
478	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> , 2015 , 2015, 1	5.4	45
477	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> , 2016 , 2016, 1	5.4	45
476	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> , 2013 , 2013, 1	5.4	45
475	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> , 2014 , 74, 3034	4.2	45
474	Search for pair production of massive particles decaying into three quarks with the ATLAS detector in ($\sqrt{s}=7$;TeV) pp collisions at the LHC. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	45

473	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> , 2015 , 75, 318	4.2	44
472	Identification of boosted, hadronically decaying bosons and comparisons with ATLAS data taken at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2016 , 76, 154	4.2	44
471	Measurement of isolated-photon pair production in pp collisions at ($\sqrt{s}=7$;TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	44
470	Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at ($\sqrt{s} = 7$ mbox{TeV}). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	44
469	Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	44
468	Angular analysis of $B^0 \rightarrow K^* \mu^+ \mu^-$ decays in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	44
467	Performance of jet substructure techniques for large-R jets in proton-proton collisions at ($\sqrt{s}=7$) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	43
466	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> , 2012 , 2012, 1	5.4	43
465	ATLAS b-jet identification performance and efficiency measurement with ($t\bar{t}$) events in pp collisions at ($\sqrt{s}=13$) TeV. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	43
464	Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , 2017 , 77, 466	4.2	42
463	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> , 2016 , 76, 283	4.2	42
462	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> , 2012 , 72, 2046	4.2	42
461	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> , 2015 , 2015, 1	5.4	42
460	Search for heavy resonances in the and final states using proton-proton collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 293	4.2	41
459	Search for direct top squark pair production in events with a [Formula: see text] boson, [Formula: see text]-jets and missing transverse momentum in [Formula: see text] TeV [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 2883	4.2	41
458	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	41
457	Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in ($\sqrt{s}=7$ TeV) proton-proton collisions with the ATLAS experiment. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	41
456	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> , 2014 , 2014, 1	5.4	40

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454	Search for supersymmetry at (\sqrt{s}) = 8 TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	39
453	A search for (\overline{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> , 2012 , 2012, 1	5.4	39
452	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> , 2018 , 2018, 1	5.4	39
451	Performance of algorithms that reconstruct missing transverse momentum in [Formula: see text] = 8 TeV proton-proton collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 241	4.2	38
450	Observation and measurements of the production of prompt and non-prompt [Formula: see text] mesons in association with a [Formula: see text] boson in [Formula: see text] collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 229	4.2	38
449	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> , 2014 , 2014, 1	5.4	38
448	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at (\sqrt{s}) = 13 TeV. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	37
447	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> , 2014 , 2014, 1	5.4	37
446	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> , 2015 , 2015, 1	5.4	37
445	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> , 2012 , 2012, 1	5.4	37
444	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> , 2011 , 71, 1	4.2	37
443	Search for massive colored scalars in four-jet final states in (\sqrt{s}) = 7 TeV proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	37
442	Moments of the electron energy spectrum and partial branching fraction of $B \rightarrow X_{\text{ce}} \tau$ decays at the Belle detector. <i>Physical Review D</i> , 2007 , 75,	4.9	37
441	Direct search for Dirac magnetic monopoles in pp collisions at square root s = 1.96 TeV. <i>Physical Review Letters</i> , 2006 , 96, 201801	7.4	37
440	First measurement of the W-boson mass in run II of the Tevatron. <i>Physical Review Letters</i> , 2007 , 99, 151801	7.1	37
439	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> , 2016 , 76, 502	4.2	37
438	Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^* \rightarrow 4\tau$ decay channel at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	36

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436	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at and 5.02 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 142	4-2	35
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433	Measurement of jet fragmentation in Pb+Pb and collisions at TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2017 , 77, 379	4-2	35
432	Search for second generation scalar leptoquarks in pp collisions at $(\sqrt{s}=7\text{~TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4-2	35
431	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> , 2013 , 2013, 1	5-4	34
430	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> , 2012 , 72, 1	4-2	34
429	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> , 2012 , 2012, 1	5-4	34
428	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 565	4-2	34
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425	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb of $(\sqrt{s}=13)$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	33
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420	Constraints on mediator-based dark matter and scalar dark energy models using $(\sqrt{s}) = 13$ TeV pp collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5-4	31

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413	Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in ($\sqrt{s}=7$ TeV) proton-proton collisions. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	31
412	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> , 2011 , 2011, 1	5.4	31
411	Measurements of b-jet tagging efficiency with the ATLAS detector using (\overline{t}) events at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	31
410	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> , 2013 , 2013, 1	5.4	30
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407	Measurement of the [Formula: see text] production cross section in the tau + jets channel using the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2328	4.2	30
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404	Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	30
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398	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> , 2015 , 75, 466	4.2	28
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374	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> , 2016 , 2016, 1	5.4	25
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363	Measurements of direct CP-violating asymmetries in charmless decays of bottom baryons. <i>Physical Review Letters</i> , 2014 , 113, 242001	7.4	23
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359	Prompt and non-prompt and suppression at high transverse momentum in Pb+Pb collisions with the ATLAS experiment. <i>European Physical Journal C</i> , 2018 , 78, 762	4.2	23
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337	Searches for heavy diboson resonances in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	20
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325	Charged-particle distributions in interactions at [Formula: see text] measured with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 403	4.2	19
324	Measurement of three-jet production cross-sections in [Formula: see text] collisions at 7 [Formula: see text] centre-of-mass energy using the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 228	4.2	18
323	Search for long-lived neutral particles in pp collisions at ($\sqrt{s} = 13 \sim \text{TeV}$) that decay into displaced hadronic jets in the ATLAS calorimeter. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	18
322	Searches for third-generation scalar leptoquarks in ($\sqrt{s} = 13 \text{ TeV}$) pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	18
321	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> , 2014 , 74, 1	4.2	18
320	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> , 2014 , 74, 2982	4.2	18
319	Measurement of the low-mass Drell-Yan differential cross section at ($\sqrt{s} = 7 \text{ TeV}$) using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	18
318	Measurement of jet shapes in top-quark pair events at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2676	4.2	18
317	Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at ($\sqrt{s} = 7 \text{ TeV}$) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	18
316	Search for flavour-changing neutral current top quark decays $t \rightarrow Hq$ in pp collisions at ($\sqrt{s} = 8 \text{ TeV}$) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1-65	5.4	18
315	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> , 2015 , 75, 407	4.2	18
314	Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at ($\sqrt{\mathbf{s}} = 7 \text{ TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	18
313	Search for an excess of events with an identical flavour lepton pair and significant missing transverse momentum in ($\sqrt{s} = 7 \text{ TeV}$) proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	18
312	Radiation qualification of the front-end electronics for the readout of the ATLAS liquid argon calorimeters. <i>Journal of Instrumentation</i> , 2008 , 3, P10005-P10005	1	18

311	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> , 2016 , 76, 87	4.2	18
310	Searches for heavy ZZ and ZW resonances in the $\bar{q}q$ and $\bar{q}q$ final states in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	17
309	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> , 2014 , 2014, 1	5.4	17
308	Measurement of polarization in \rightarrow decays with the ATLAS detector in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2062	4.2	17
307	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> , 2014 , 74, 3117	4.2	17
306	Search for a scalar partner of the top quark in the all-hadronic ($t\bar{t}$) plus missing transverse momentum final state at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	17
305	Search for supersymmetry in a final state containing two photons and missing transverse momentum in [Formula: see text] $\sqrt{s}=13$ TeV [Formula: see text] collisions at the LHC using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 517	4.2	17
304	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> , 2019 , 79, 1	4.2	16
303	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> , 2016 , 2016, 1	5.4	16
302	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> , 2016 , 2016, 1	5.4	16
301	Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 580	4.2	16
300	Measurement of the Drell-Yan triple-differential cross section in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	16
299	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> , 2015 , 2015, 1	5.4	16
298	Measurement of the ($\bar{t}W$) and ($\bar{t}Z$) production cross sections in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	16
297	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> , 2015 , 2015, 1	5.4	16
296	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> , 2014 , 74, 3168	4.2	16
295	Measurement of the production cross-section of $\bar{t}S \rightarrow J/\psi + \bar{t} + \bar{t}$ in pp collisions at ($\sqrt{s}) = 7$ TeV at ATLAS. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	16
294	Search for scalar top quark production in ($\bar{p}p$) collisions at ($\sqrt{s}=1.96$;mathrm{TeV}). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	16

293	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> , 2012 , 2012, 1	5.4	16
292	Studies of the performance of the ATLAS detector using cosmic-ray muons. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	16
291	The performance of the jet trigger for the ATLAS detector during 2011 data taking. <i>European Physical Journal C</i> , 2016 , 76, 526	4.2	16
290	Search for the Higgs boson produced in association with a boson and decaying to four -quarks via two spin-zero particles in collisions at 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 605	4.2	16
289	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> , 2016 , 76, 12	4.2	16
288	Measurement of fiducial and differential (W^+W^-) production cross-sections at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	16
287	Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at ($\sqrt{s_{\text{NN}}} = 5.02\text{TeV}$) with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	16
286	Search for pair production of heavy vector-like quarks decaying into high-pT W bosons and top quarks in the lepton-plus-jets final state in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	16
285	Determination of spin and parity of the Higgs boson in the [Formula: see text] decay channel with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 231	4.2	15
284	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> , 2013 , 2013, 1	5.4	15
283	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> , 2013 , 2013, 1	5.4	15
282	Measurements of (Υ S) and $X(3872) \rightarrow J/\psi \pi\pi$ production in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	15
281	Measurement of production with the hadronically decaying boson reconstructed as one or two jets in collisions at with ATLAS, and constraints on anomalous gauge couplings. <i>European Physical Journal C</i> , 2017 , 77, 563	4.2	15
280	Determination of the top-quark pole mass using (\overline{t}) + 1-jet events collected with the ATLAS experiment in 7 TeV pp collisions. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	15
279	Search for resonant top-antitop production in the lepton plus jets decay mode using the full CDF data set. <i>Physical Review Letters</i> , 2013 , 110, 121802	7.4	15
278	Search for diphoton events with large missing transverse energy with 36 pb \int of 7 TeV proton-proton collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	15
277	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> , 2018 , 2018, 1	5.4	15
276	Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\pi\pi$ collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 625	4.2	15

275	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> , 2017 , 77, 40	4.2	14
274	Measurements of electroweak $[Formula: see text]$ production and constraints on anomalous gauge couplings with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 474	4.2	14
273	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> , 2019 , 2019, 1	5.4	14
272	Measurement of the (\overline{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> , 2015 , 2015, 1	5.4	14
271	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> , 2016 , 2016, 1	5.4	14
270	Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at $(\sqrt{s}) = 8$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	14
269	Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	14
268	Search for charged Higgs bosons through the violation of lepton universality in (\overline{t}) events using pp collision data at $(\sqrt{s}=7)$ TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	14
267	Study of $(W/Z)H$ production and Higgs boson couplings using $H \rightarrow WW^*$ decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	14
266	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> , 2012 , 72, 2083	4.2	14
265	Performance of the ATLAS detector using first collision data. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5.4	14
264	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> , 2019 , 79, 1	4.2	14
263	Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow aa \rightarrow 4b$ channel in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
262	High-precision measurement of the boson mass with the CDF II detector.. <i>Science</i> , 2022 , 376, 170-176	33.3	14
261	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> , 2017 , 77, 292	4.2	13
260	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> , 2017 , 77, 141	4.2	13
259	Search for top-quark decays $t \rightarrow Hq$ with 36 fb of pp collision data at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	13
258	Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW^* \rightarrow e\mu$ with the ATLAS detector at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	13

257	Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	13
256	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> , 2016 , 2016, 1	5-4	13
255	Addendum to Measurement of the ($t\bar{t}$) production cross-section using ($e\mu$) events with b-tagged jets in pp collisions at (\sqrt{s}) = 7 and 8 (TeV) with the ATLAS detector \square <i>European Physical Journal C</i> , 2016 , 76, 1	4-2	13
254	Study of the [Formula: see text] and [Formula: see text] decays with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 4	4-2	13
253	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> , 2017 , 2017, 1	5-4	13
252	Evidence for s-channel single-top-quark production in events with one charged lepton and two jets at CDF. <i>Physical Review Letters</i> , 2014 , 112, 231804	7-4	13
251	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> , 2012 , 2012, 1	5-4	13
250	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> , 2012 , 72, 1	4-2	13
249	Search for a fermiophobic Higgs boson in the diphoton decay channel with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4-2	13
248	Search for a heavy neutral particle decaying into an electron and a muon using 1 fb \square of ATLAS data. <i>European Physical Journal C</i> , 2011 , 71, 1	4-2	13
247	Search for lepton and baryon number violating \square decays into \square and \square <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006 , 632, 51-57	4-2	13
246	Search for Higgs bosons decaying into bb and produced in association with a vector boson in pp collisions at square root of s = 1.8 TeV. <i>Physical Review Letters</i> , 2005 , 95, 051801	7-4	13
245	Fluctuations of anisotropic flow in Pb+Pb collisions at ($\sqrt{\{\text{mathrm}\{s\}}_{\{\text{mathrm}\{NN\}}\}} = 5.02$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5-4	13
244	Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in (pp) collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4-2	13
243	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at ($\sqrt{s}=13$) TeV. <i>European Physical Journal C</i> , 2021 , 81, 1	4-2	13
242	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> , 2019 , 79, 1	4-2	13
241	Operation and performance of the ATLAS Tile Calorimeter in Run \square . <i>European Physical Journal C</i> , 2018 , 78, 987	4-2	13
240	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> , 2019 , 79, 1	4-2	12

239	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> , 2015 , 2015, 1	5.4	12
238	Higgs boson production cross-section measurements and their EFT interpretation in the (4ℓ) decay channel at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	12
237	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> , 2016 , 2016, 1	5.4	12
236	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> , 2016 , 2016, 1	5.4	12
235	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> , 2016 , 2016, 1	5.4	12
234	Probing lepton flavour violation via neutrinoless [Formula: see text] decays with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 232	4.2	12
233	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> , 2016 , 2016, 1-46	5.4	12
232	Mid-board miniature dual channel optical transmitter MTx and transceiver MTRx. <i>Journal of Instrumentation</i> , 2016 , 11, C03054-C03054	1	12
231	Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12
230	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> , 2019 , 2019, 1	5.4	12
229	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> , 2014 , 74, 2895	4.2	12
228	Measurement of the inclusive jet cross-sections in proton-proton collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	12
227	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> , 2017 , 2017, 1	5.4	12
226	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> , 2017 , 2017, 1	5.4	12
225	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> , 2017 , 2017, 1	5.4	12
224	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> , 2013 , 73, 1	4.2	12
223	Measurement of the top-quark mass in ($t\bar{t}$) + 1-jet events collected with the ATLAS detector in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	12
222	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	11

221	Direct top-quark decay width measurement in the lepton+jets channel at with the ATLAS experiment. <i>European Physical Journal C</i> , 2018 , 78, 129	4.2	11
220	Measurement of lepton differential distributions and the top quark mass in production in collisions at \sqrt{s} TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 804	4.2	11
219	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> , 2017 , 2017, 1	5.4	11
218	Study of and production in collisions at and search for anomalous quartic gauge couplings with the ATLAS experiment. <i>European Physical Journal C</i> , 2017 , 77, 646	4.2	11
217	Measurement of $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ in top-quark-pair decays using dilepton events and the full CDF Run II data set. <i>Physical Review Letters</i> , 2014 , 112, 221801	7.4	11
216	Measurements of the pseudorapidity dependence of the total transverse energy in proton-proton collisions at $(\sqrt{s}=7)$ TeV with ATLAS. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	11
215	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> , 2012 , 72, 1	4.2	11
214	Measurement of WZ and $Z\bar{\nu}\nu$ production in proton-proton collisions at $(\sqrt{s}=7)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	11
213	Jet energy scale and resolution measured in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	11
212	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> , 2018 , 2018, 1	5.4	10
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210	Measurement of the CP-violating phase ϕ_s and the B^0_s meson decay width difference with $B^0_s \rightarrow J/\psi$ decays in ATLAS. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
209	Search for diboson resonances in hadronic final states in 139 fb $^{-1}$ of pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	10
208	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> , 2012 , 72, 2040	4.2	10
207	Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in collisions at \sqrt{s} TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 765	4.2	10
206	Measurement of the single top quark production cross section and $ V_{tb} $ in events with one charged lepton, large missing transverse energy, and jets at CDF. <i>Physical Review Letters</i> , 2014 , 113, 261804	7.4	10
205	Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	10
204	The integration and engineering of the ATLAS Semiconductor Tracker Barrel. <i>Journal of Instrumentation</i> , 2008 , 3, P10006-P10006	1	10

203	Improved measurements of color-suppressed decays $B \rightarrow D^0 D^0, D^0 \bar{D}^0, D^0 D^{*0}, D^0 \bar{D}^{*0}$ and $D^* \rightarrow D^0 \pi^0$. <i>Physical Review D</i> , 2006 , 74,	4.9	10
202	Measurement of the branching fractions for $B \rightarrow D^{(*)} \pi^0$ and $B \rightarrow D^{(*)} \eta$. <i>Physical Review D</i> , 2005 , 72,	4.9	10
201	LOCx2, a low-latency, low-overhead, 2 Tb.12-Gbps transmitter ASIC for the ATLAS Liquid Argon Calorimeter trigger upgrade. <i>Journal of Instrumentation</i> , 2016 , 11, C02013-C02013	1	10
200	8-Gbps-per-channel radiation-tolerant VCSEL drivers for the LHC detector upgrade. <i>Journal of Instrumentation</i> , 2015 , 10, C02017-C02017	1	9
199	Fixed-Latency Gigabit Serial Links in a Xilinx FPGA for the Upgrade of the Muon Spectrometer at the ATLAS Experiment. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 656-664	1.7	9
198	Measurement of the ZZ production cross section in proton-proton collisions at ($\sqrt{s}=8$) TeV using the $ZZ \rightarrow \mu\mu^+ \nu\bar{\nu}$ and ($ZZ \rightarrow \mu\mu^+ \nu\bar{\nu}$) decay channels with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9
197	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> , 2017 , 2017, 1	5.4	9
196	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> , 2014 , 2014, 1	5.4	9
195	First search for exotic Z Boson decays into photons and neutral pions in hadron collisions. <i>Physical Review Letters</i> , 2014 , 112, 111803	7.4	9
194	Search for s-channel single-top-quark production in events with missing energy plus jets in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2014 , 112, 231805	7.4	9
193	Improved measurements of branching fractions and CP partial rate asymmetries for $B \rightarrow \mu^+ \mu^-$ and $B \rightarrow \mu^+ \mu^- \pi^0$. <i>Physical Review D</i> , 2006 , 74,	4.9	9
192	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
191	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4ℓ decay channel at (\sqrt{s}) = 13 TeV. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	9
190	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> , 2018 , 2018, 1	5.4	9
189	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> , 2019 , 2019, 1	5.4	8
188	Measurement of $VH, (\text{H}) \rightarrow \text{b}\bar{\text{b}}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
187	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in (\sqrt{s}) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
186	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb ⁻¹ of data collected with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8

185	Search for scalar resonances decaying into $\mu\mu$ events with and without b-tagged jets produced in proton-proton collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
184	Optical data transmission ASICs for the high-luminosity LHC (HL-LHC) experiments. <i>Journal of Instrumentation</i> , 2014 , 9, C03007-C03007	1	8
183	Measurement of splitting scales in \rightarrow events at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2432	4.2	8
182	Studies on fast triggering and high precision tracking with Resistive Plate Chambers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 714, 115-120	1.2	8
181	Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [Formula: see text][Formula: see text][Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 144	4.2	8
180	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> , 2017 , 2017, 1	5.4	8
179	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> , 2015 , 75, 158	4.2	8
178	A line code with quick-resynchronization capability and low latency for the optical data links of LHC experiments. <i>Journal of Instrumentation</i> , 2014 , 9, P07020-P07020	1	8
177	The miniature optical transmitter and transceiver for the High-Luminosity LHC (HL-LHC) experiments. <i>Journal of Instrumentation</i> , 2013 , 8, C12027-C12027	1	8
176	Evidence for $(t\bar{t})$ production in the multilepton final state in proton-proton collisions at ($\sqrt{s}=13$) (text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8
175	Search for light long-lived neutral particles produced in pp collisions at ($\sqrt{s} = 13\text{-}\mathrm{TeV}$) and decaying into collimated leptons or light hadrons with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8
174	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
173	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> , 2020 , 80, 1	4.2	8
172	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at ($\sqrt{\mathrm{s}} = 13$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
171	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 (fb^{-1}) of proton-proton collisions at ($\sqrt{s} = 13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	8
170	Search for charged Higgs bosons decaying into a top quark and a bottom quark at ($\sqrt{\mathrm{s}} = 13$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
169	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> , 2016 , 2016, 1	5.4	8
168	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb^{-1} of ($\sqrt{s} = 13$ TeV) pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8

167	Prompt and non-prompt elliptic flow in Pb+Pb collisions at Tev with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 784	4.2	8
166	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> , 2018 , 2018, 1	5.4	8
165	Measurements of inclusive and differential fiducial cross-sections of $(\bar{t}t)\gamma$ production in leptonic final states at ($\sqrt{s}=13$ TeV) in ATLAS. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	7
164	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using (\sqrt{s}) = 13 TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	7
163	Transverse momentum and process dependent azimuthal anisotropies in ($\sqrt{s}_{\text{NN}}=8.16$) TeV p+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	7
162	Search for new phenomena in high-mass final states with a photon and a jet from collisions at = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 102	4.2	7
161	Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at [Formula: see text] TeV recorded with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 683	4.2	7
160	Measurement of differential cross sections and $W+/W-$ cross-section ratios for W boson production in association with jets at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
159	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> , 2019 , 2019, 1	5.4	7
158	Measurement of the $(\overline{t}t)\gamma$ production cross section in proton-proton collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
157	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> , 2017 , 2017, 1	5.4	7
156	Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in ($\sqrt{s}=13$) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
155	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> , 2017 , 2017, 1	5.4	7
154	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> , 2017 , 2017, 1	5.4	7
153	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> , 2017 , 2017, 1	5.4	7
152	Component Prototypes Towards a Low-Latency, Small-Form-Factor Optical Link for the ATLAS Liquid Argon Calorimeter Phase-I Trigger Upgrade. <i>IEEE Transactions on Nuclear Science</i> , 2015 , 62, 250-256	1.7	7
151	Search for exotic $S=\pm 1$ baryons in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , 2007 , 75,	4.9	7
150	Search for ZZ and ZW production in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , 2005 , 71,	4.9	7

149	Experience with parallel optical link for the CDF silicon detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003 , 511, 166-170	1.2	7
148	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	7
147	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> , 2021 , 81, 1	4.2	7
146	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the ($\ell\ell b\bar{b}$) and ($\ell\ell WW$) final states in pp collisions at ($\sqrt{s}=13$) (TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
145	Measurement of the [Formula: see text] dijet cross section in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 670	4.2	7
144	Search for new phenomena in different-flavour high-mass dilepton final states in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 541	4.2	7
143	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> , 2016 , 76, 81	4.2	7
142	Measurement of ($W^{\pm} \rho^0$) boson production in Pb+Pb collisions at ($\sqrt{s_{\text{NN}}} = 5.02\text{--}8$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	7
141	Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	7
140	Measurements of WH and ZH production in the ($H \rightarrow b\bar{b}$) decay channel in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	7
139	A new method to distinguish hadronically decaying boosted bosons from bosons using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 238	4.2	6
138	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> , 2014 , 2014, 1	5.4	6
137	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> , 2017 , 2017, 1	5.4	6
136	Top-quark mass measurement in the all-hadronic (\overline{t}) decay channel at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	6
135	Search for narrow resonances lighter than ρ mesons. <i>European Physical Journal C</i> , 2009 , 62, 319-326	4.2	6
134	Search for (\overline{t}) resonances in fully hadronic final states in pp collisions at ($\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	6
133	Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at ($\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
132	Search for new phenomena in final states with b-jets and missing transverse momentum in ($\sqrt{s} = 13$ TeV) pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6

131	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a lepton in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
130	Measurement of the $(Z \rightarrow \nu \bar{\nu})$ 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> , 2018 , 2018, 1	5.4	6
129	Search for exclusive Higgs and Z boson decays to $\tau\tau$ and $\tau\nu$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
128	Measurement of jet activity produced in top-quark events with an electron, a muon and two τ -tagged jets in the final state in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 220	4.2	5
127	Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $(\sqrt{s}) = 13$ and 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	5
126	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> , 2018 , 78, 186	4.2	5
125	Aging and environmental tolerance of an optical transmitter for the ATLAS Phase-I upgrade at the LHC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 831, 349-354	1.2	5
124	The 120Gbps VCSEL Array Based Optical Transmitter (ATx) development for the High-Luminosity LHC (HL-LHC) experiments. <i>Journal of Instrumentation</i> , 2014 , 9, C02007-C02007	1	5
123	Search for the Higgs boson in the all-hadronic final state using the full CDF data set. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	5
122	Developments of two 4 \times 10 Gb/s VCSEL array drivers in 65 nm CMOS for HEP experiments. <i>Journal of Instrumentation</i> , 2017 , 12, C02065-C02065	1	5
121	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> , 2017 , 2017, 1	5.4	5
120	Search for Resonances Decaying to Top and Bottom Quarks with the CDF Experiment. <i>Physical Review Letters</i> , 2015 , 115, 061801	7.4	5
119	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> , 2015 , 2015, 1-76	5.4	5
118	JTAG-based remote configuration of FPGAs over optical fibers. <i>Journal of Instrumentation</i> , 2015 , 10, C01050-C01050	1	5
117	A Versatile Link for High-Speed, Radiation Resistant Optical Transmission in LHC Upgrades. <i>Physics Procedia</i> , 2012 , 37, 1750-1758		5
116	Radiation hardness of the 1550 nm edge emitting laser for the optical links of the CDF silicon tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 541, 208-212	1.2	5
115	The new double sided silicon microvertex detector for the L3 experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994 , 348, 431-435	1.2	5
114	Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5

113	Search for the $HH \rightarrow (\overline{b}b)$ process via vector-boson fusion production using proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5-4	5
112	Observation of the associated production of a top quark and a Z boson in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5-4	5
111	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5-4	5
110	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4-2	5
109	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> , 2016 , 76, 375	4-2	5
108	Measurement of the relative width difference of the $(\overline{B}^0 \text{ } B^0)$ system with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	5
107	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. <i>European Physical Journal C</i> , 2021 , 81, 1	4-2	5
106	Search for dark matter in association with an energetic photon in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5-4	5
105	Measurement of colour flow using jet-pull observables in events with the ATLAS experiment at. <i>European Physical Journal C</i> , 2018 , 78, 847	4-2	5
104	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> , 2018 , 78, 487	4-2	5
103	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> , 2016 , 2016, 1	5-4	4
102	Low resistance bakelite RPC study for high rate working capability. <i>Journal of Instrumentation</i> , 2014 , 9, C11013-C11013	1	4
101	Search for supersymmetry with like-sign lepton-tau events at CDF. <i>Physical Review Letters</i> , 2013 , 110, 201802	7-4	4
100	Search for a two-Higgs-boson doublet using a simplified model in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2013 , 110, 121801	7-4	4
99	The design of 8-Gbps VCSEL drivers for ATLAS liquid Argon calorimeter upgrade. <i>Journal of Instrumentation</i> , 2013 , 8, C01031-C01031	1	4
98	Radiation hardness of optoelectronic components for the optical readout of the ATLAS inner detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 636, S137-S142	1-2	4
97	Cryogenic digital data links for the liquid argon time projection chamber. <i>Journal of Instrumentation</i> , 2012 , 7, C01091-C01091	1	4
96	Study of multi-muon events produced in $(p\bar{p})$ interactions at $(\sqrt{s}=1.96)$ TeV. <i>European Physical Journal C</i> , 2010 , 68, 109-118	4-2	4

95	Radiation hardness studies of VCSELs and PINs for the opto-links of the Atlas SemiConductor Tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 579, 795-800	1.2	4
94	Search for heavy diboson resonances in semileptonic final states in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
93	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
92	Measurement of J/ψ production in association with a W boson with pp data at 8 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	4
91	Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	4
90	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> , 2018 , 2018, 1	5.4	4
89	Search for dark matter produced in association with a single top quark in ($\sqrt{s}=13$) TeV (pp) collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	4
88	A multi-layer SEU mitigation strategy to improve FPGA design robustness for the ATLAS muon spectrometer upgrade. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 939, 30-35	1.2	3
87	Search for dijet resonances in events with an isolated charged lepton using (\sqrt{s}) = 13 TeV proton-proton collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	3
86	Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at ($\sqrt{s}=8$) and 13 TeV. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	3
85	The clock and control system for the ATLAS Liquid Argon Calorimeter Phase-I upgrade. <i>Journal of Instrumentation</i> , 2016 , 11, C01062-C01062	1	3
84	A low-latency, low-overhead encoder for data transmission in the ATLAS Liquid Argon Calorimeter trigger upgrade. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 831, 288-294	1.2	3
83	Measurement of polarisation in decays in proton-proton collisions at TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 163	4.2	3
82	Measurement of the k_t splitting scales in $Z \rightarrow \ell\bar{\ell}$ events in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	3
81	The VCSEL-based array optical transmitter (ATx) development towards 120-Gbps link for collider detector: development update. <i>Journal of Instrumentation</i> , 2015 , 10, C01034-C01034	1	3
80	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector 2015 , 75, 1		3
79	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider 2015 , 75, 1		3
78	Determination of jet calibration and energy resolution in proton-proton collisions at ($\sqrt{s} = 8$ -13 TeV) using the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	3

77	Measurement of the inclusive jet cross-section in proton-proton collisions at ($\sqrt{s}=7$) TeV using 4.5 fb ⁻¹ of data with the ATLAS detector 2015 , 2015, 1		3
76	Reconstruction and identification of boosted di- τ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5-4	3
75	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 ($\sqrt{\text{mathrm{s}}}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5-4	3
74	A 48-Gbps VCSEL array driver ASIC and integration with a custom array transmitter module for the LHC front-end transmission. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 831, 276-282	1-2	3
73	Measurement of hadronic event shapes in high-pT multijet final states at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5-4	3
72	Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4-2	2
71	Measurement of the Z(\rightarrow $\mu\mu$) production cross-section in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5-4	2
70	A TOSA/ROSA-based optical transmitter (MTx+)/transceiver (MTRx+) for high-energy physics experiments. <i>Journal of Instrumentation</i> , 2019 , 14, C05021-C05021	1	2
69	Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	2
68	The Cryogenic Performances of Specific Optical and Electrical Components for a Liquid Argon Time Projection Chamber. <i>Physics Procedia</i> , 2012 , 37, 1654-1666		2
67	ASIC developments for high speed serial data transmission in particle physics experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 699, 120-123	1-2	2
66	R&D towards cryogenic optical links. <i>Journal of Instrumentation</i> , 2010 , 5, C12030-C12030	1	2
65	Measurement of the (\overline{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 2014 , 74, 1		2
64	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at ($\sqrt{s}=8\sim$)TeV with the ATLAS detector 2015 , 75, 1		2
63	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using ($\sqrt{s} = 13\text{hbox { TeV}}$) proton-proton collision data. <i>European Physical Journal C</i> , 2021 , 81, 1	4-2	2
62	Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5-4	2
61	A novel quad-channel 10 Gbps CMOS VCSEL array driver with integrated charge pumps. <i>Journal of Instrumentation</i> , 2020 , 15, T12004-T12004	1	2
60	Measurement of the inclusive isolated-photon cross section in pp collisions at (\sqrt{s}) = 13 TeV using 36 fb ⁻¹ of ATLAS data. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5-4	2

59	Measurements of inclusive and differential cross-sections of combined ($\overline{t}\gamma$) and tW production in the $e\bar{e}$ channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
58	Measurement of isolated-photon plus two-jet production in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
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44	Measurement of the W-boson mass in pp collisions at (\sqrt{s})=7, hbox {TeV}) with the ATLAS detector 2018 , 78, 1		1
43	Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at (\sqrt{s})=13, text {TeV}) 2018 , 78, 1		1
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