

Alan Barr

List of Publications by Citations

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608

papers

28,358

citations

67

h-index

144

g-index

642

ext. papers

32,839

ext. citations

4.9

avg, IF

3.59

L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 608 | 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> , 2012 , 716, 1-29 | 4.2 | 5271 |
| 607 | The ATLAS Experiment at the CERN Large Hadron Collider. <i>Journal of Instrumentation</i> , 2008 , 3, S08003-S08003 | 1273 | |
| 606 | The ATLAS Simulation Infrastructure. <i>European Physical Journal C</i> , 2010 , 70, 823-874 | 4.2 | 817 |
| 605 | Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015 , 114, 191803 | 7.4 | 709 |
| 604 | A variable for measuring masses at hadron colliders when missing energy is expected; m_T : the truth behind the glamour. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2003 , 29, 2343-2363 | 2.9 | 383 |
| 603 | Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 364 |
| 602 | 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 |
| 601 | Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , 2017 , 77, 317 | 4.2 | 272 |
| 600 | 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> , 2013 , 726, 120-144 | 4.2 | 267 |
| 599 | 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 |
| 598 | Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 232 |
| 597 | Performance of missing transverse momentum reconstruction in proton-proton collisions at ($\sqrt{s} = 7 \sim 8$ TeV) with ATLAS. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 217 |
| 596 | 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 |
| 595 | 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 |
| 594 | 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> , 2012 , 707, 330-348 | 4.2 | 200 |
| 593 | 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 |
| 592 | 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 |

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| 591 | 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 |
| 590 | 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 |
| 589 | 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 |
| 588 | 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 |
| 587 | 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 |
| 586 | 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> , 2013 , 719, 220-241 | 4.2 | 165 |
| 585 | 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 |
| 584 | 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 |
| 583 | 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 |
| 582 | 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 |
| 581 | 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 |
| 580 | Observation of Long-Range Elliptic Azimuthal Anisotropies in $\sqrt{s}=13$ and 2.76 TeV pp Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2016 , 116, 172301 | 7.4 | 140 |
| 579 | 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 |
| 578 | 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 |
| 577 | 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 |
| 576 | 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> , 2014 , 2014, 1 | 5.4 | 120 |
| 575 | Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 784, 173-191 | 4.2 | 118 |
| 574 | 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> , 2014 , 113, 171801 | 7.4 | 117 |

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| 573 | 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> , 2014 , 112, 041802 | 7.4 | 117 |
| 572 | Search for Invisible Decays of a Higgs Boson Produced in Association with a Z Boson in ATLAS. <i>Physical Review Letters</i> , 2014 , 112, | 7.4 | 113 |
| 571 | Search for charged Higgs bosons decaying via $H \rightarrow \tau \nu$ (\overline{t}) 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 |
| 570 | 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> , 2011 , 83, | 4.9 | 112 |
| 569 | 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 |
| 568 | 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 |
| 567 | 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 |
| 566 | Search for doubly charged Higgs bosons in like-sign dilepton final states at ($\sqrt{s} = 7$ mathrm{TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 104 |
| 565 | 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 |
| 564 | 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 |
| 563 | Measurements of the Nuclear Modification Factor for Jets in Pb+Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2015 , 114, 072302 | 7.4 | 99 |
| 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 | Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC. <i>Physical Review Letters</i> , 2016 , 117, 182002 | 7.4 | 92 |
| 560 | 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 |
| 559 | 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 |
| 558 | Search for Higgs boson pair production in the $B\overline{B}$ final state using pp collision data at $\sqrt{s}=8$ TeV from the ATLAS detector. <i>Physical Review Letters</i> , 2015 , 114, 081802 | 7.4 | 90 |
| 557 | Observation of $H \rightarrow b\overline{b}$ decays and VH production with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 786, 59-86 | 4.2 | 87 |
| 556 | 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 |

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| 555 | 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 |
| 554 | Measurement of the $Z/\bar{\nu}$ 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 |
| 553 | 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 |
| 552 | 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 |
| 551 | 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 |
| 550 | 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 |
| 549 | 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 |
| 548 | 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 |
| 547 | Evidence for electroweak production of $W\bar{W}jj$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2014 , 113, 141803 | 7-4 | 73 |
| 546 | 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 |
| 545 | 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 |
| 544 | Rapidity gap cross sections measured with the ATLAS detector in pp collisions at ($\sqrt{s} = 7$ mbox{~TeV}). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4-2 | 70 |
| 543 | 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 |
| 542 | 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 |
| 541 | 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 |
| 540 | 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 |
| 539 | 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 |
| 538 | 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 |

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| 537 | 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 |
| 536 | 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 |
| 535 | 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 |
| 534 | Measurement of $W\overline{b}$ and Z-boson production cross sections in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 601-621 | 4.2 | 64 |
| 533 | 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 |
| 532 | The barrel modules of the ATLAS semiconductor tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 568, 642-671 | 1.2 | 63 |
| 531 | 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 |
| 530 | 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 |
| 529 | 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 |
| 528 | 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 |
| 527 | Measurement of the τ -boson mass in pp collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 110 | 4.2 | 59 |
| 526 | 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 |
| 525 | Measurement of the W - and Z/\overline{b} - \overline{b} production cross sections in proton-proton collisions at ($\sqrt{s} = 7$; {text{TeV}}) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1 | 5.4 | 58 |
| 524 | A search for (\overline{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 |
| 523 | Search for charged Higgs bosons decaying via $H\overline{b} \rightarrow \overline{b}\overline{b}$ 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 |
| 522 | 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 |
| 521 | 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 |
| 520 | 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 |

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| 519 | 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 |
| 518 | 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> , 2013 , 73, 1 | 4-2 | 55 |
| 517 | 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 |
| 516 | Measurements of the [Formula: see text] production cross sections in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 82 | 4-2 | 54 |
| 515 | 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 |
| 514 | 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 |
| 513 | Measurement of $W \mp Z$ production in proton-proton collisions at ($\sqrt{s}=7$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4-2 | 54 |
| 512 | 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> , 2016 , 76, 392 | 4-2 | 53 |
| 511 | 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> , 2016 , 76, 210 | 4-2 | 53 |
| 510 | 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 |
| 509 | Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at ($\sqrt{s}=7$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4-2 | 53 |
| 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 | Observation of an excited $B_c(\Theta)$ meson state with the ATLAS detector. <i>Physical Review Letters</i> , 2014 , 113, 212004 | 7-4 | 52 |
| 503 | 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 |
| 502 | 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 |

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| 501 | 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 |
| 500 | 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 |
| 499 | Electron and photon performance measurements with the ATLAS detector using the 2015-2017 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , 2019 , 14, P12006-P12006 | 1 | 51 |
| 498 | 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 |
| 497 | Evidence for the ($H \rightarrow b\bar{b}$) decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 50 |
| 496 | 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 |
| 495 | 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 |
| 494 | 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 |
| 493 | Measurement of charged-particle spectra in Pb+Pb collisions at ($\sqrt{s_{\text{NN}}}=2.76$) TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 49 |
| 492 | The silicon microstrip sensors of the ATLAS semiconductor tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 578, 98-118 | 1.2 | 49 |
| 491 | 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 |
| 490 | 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 |
| 489 | Measurement of spin correlation in top-antitop quark events and search for top squark pair production in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>Physical Review Letters</i> , 2015 , 114, 142001 | 7.4 | 48 |
| 488 | 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 |
| 487 | 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 |
| 486 | 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 |
| 485 | Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb ⁻¹ of ($\sqrt{s}=7$;TeV) proton-proton collisions. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 48 |
| 484 | Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 121, 211801 | 7.4 | 48 |

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| 483 | 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 |
| 482 | Measurement of the prompt $[\text{Formula: see text}]$ pair production cross-section in collisions at $[\text{Formula: see text}]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 76 | 4-2 | 47 |
| 481 | 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 |
| 480 | 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 |
| 479 | Search for a new resonance decaying to a or boson and a Higgs boson in the $[\text{Formula: see text}]$ final states with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 263 | 4-2 | 46 |
| 478 | Light-quark and gluon jet discrimination in $[\text{Formula: see text}]$ collisions at $[\text{Formula: see text}]$ with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3023 | 4-2 | 46 |
| 477 | Search for lepton-flavour-violating H \rightarrow decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 46 |
| 476 | 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 |
| 475 | 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 |
| 474 | Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. <i>Physical Review Letters</i> , 2019 , 122, 231801 | 7-4 | 45 |
| 473 | 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 |
| 472 | Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $[\text{Formula: see text}]$ TeV in 2010. <i>European Physical Journal C</i> , 2014 , 74, 3034 | 4-2 | 45 |
| 471 | 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 |
| 470 | Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $[\text{Formula: see text}]$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 318 | 4-2 | 44 |
| 469 | Identification of boosted, hadronically decaying bosons and comparisons with ATLAS data taken at $[\text{Formula: see text}]$ TeV. <i>European Physical Journal C</i> , 2016 , 76, 154 | 4-2 | 44 |
| 468 | 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 |
| 467 | Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1 | 4-2 | 44 |
| 466 | 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 |

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|-----|---|-----|----|
| 465 | 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> , 2018 , 2018, 1 | 5.4 | 44 |
| 464 | 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 |
| 463 | Measurement of the cross section for top-quark pair production in pp collisions at $(\sqrt{s} = \{7\}, \{\text{TeV}\})$ 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 |
| 462 | 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 |
| 461 | Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , 2017 , 77, 466 | 4.2 | 42 |
| 460 | Measurement of the differential cross-sections of prompt and non-prompt production of $[\text{Formula: see text}]$ and $[\text{Formula: see text}]$ in collisions at $[\text{Formula: see text}]$ and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 283 | 4.2 | 42 |
| 459 | Measurement of the top quark mass with the template method in the $[\text{Formula: see text}]$ channel using ATLAS data. <i>European Physical Journal C</i> , 2012 , 72, 2046 | 4.2 | 42 |
| 458 | 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 |
| 457 | Measurement of the top quark mass in the $t\bar{t}$ -dilepton channel from $s=8$ TeV ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 761, 350-371 | 4.2 | 42 |
| 456 | Search for heavy resonances in the $t\bar{t}$ and final states using proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 293 | 4.2 | 41 |
| 455 | Observation of Light-by-Light Scattering in Ultraperipheral Pb+Pb Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2019 , 123, 052001 | 7.4 | 41 |
| 454 | Search for direct top squark pair production in events with a $[\text{Formula: see text}]$ boson, $[\text{Formula: see text}]$ -jets and missing transverse momentum in $[\text{Formula: see text}]$ TeV $[\text{Formula: see text}]$ collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 2883 | 4.2 | 41 |
| 453 | Measurement of the top quark pair production cross section in pp collisions at $s=7$ TeV in dilepton final states with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 707, 459-477 | 4.2 | 41 |
| 452 | 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 |
| 451 | Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in $(\sqrt{s}=7\sim 13)$ TeV proton-proton collisions with the ATLAS experiment. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 41 |
| 450 | Measurement of the Higgs boson mass in the $H \rightarrow ZZ^* \rightarrow 4\ell$ and $H \rightarrow \tau\tau$ channels with $s=13$ TeV pp collisions using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 784, 345-366 | 4.2 | 41 |
| 449 | 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 |
| 448 | Measurement of top quark polarization in top-antitop events from proton-proton collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review Letters</i> , 2013 , 111, 232002 | 7.4 | 40 |

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|-----|---|-----|----|
| 447 | Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 199 | 4.2 | 39 |
| 446 | 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 |
| 445 | 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 |
| 444 | 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 |
| 443 | 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 |
| 442 | 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 |
| 441 | 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 |
| 440 | Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at (\sqrt{s}) = 13 (text {TeV}). <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 37 |
| 439 | 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 |
| 438 | 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 |
| 437 | Search for the Standard Model Higgs boson in the $H \rightarrow \tau\tau$ decay mode in (\sqrt{s}) = 7, {mathrm{TeV}} pp collisions with ATLAS. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 37 |
| 436 | 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 |
| 435 | 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 |
| 434 | 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 |
| 433 | 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> , 2018 , 2018, 1 | 5.4 | 36 |
| 432 | Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay $H(\tilde{H}) \rightarrow W(\tilde{H})Z$ using pp Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Experiment. <i>Physical Review Letters</i> , 2015 , 114, 231801 | 7.4 | 36 |
| 431 | 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> , 2014 , 2014, 1 | 5.4 | 36 |
| 430 | 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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|-----|--|-----|----|
| 429 | Measurement of quarkonium production in proton-lead and proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 171 | 4.2 | 35 |
| 428 | 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> , 2016 , 76, 322 | 4.2 | 35 |
| 427 | 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 |
| 426 | 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 |
| 425 | 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 |
| 424 | 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> , 2014 , 112, 231806 | 7.4 | 34 |
| 423 | 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 |
| 422 | 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 |
| 421 | 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 |
| 420 | Search for Higgs and Z Boson Decays to J/ψ and $\psi(nS)$ with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 114, 121801 | 7.4 | 33 |
| 419 | Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. <i>European Physical Journal C</i> , 2017 , 77, 673 | 4.2 | 33 |
| 418 | Search for charged Higgs bosons in the $H \rightarrow \tau b$ decay channel in pp collisions at ($\sqrt{s}=8$) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 33 |
| 417 | 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 |
| 416 | Search for charged Higgs bosons decaying via $H \rightarrow \tau\tau$ in the τ jets and τ lepton final states with 36 fb of pp collision data recorded at ($\sqrt{s}=13$) TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 33 |
| 415 | Measurement of the top quark mass in the [Formula: see text] and [Formula: see text] channels using [Formula: see text][Formula: see text] ATLAS data. <i>European Physical Journal C</i> , 2015 , 75, 330 | 4.2 | 32 |
| 414 | Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=8$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 18 | 4.2 | 32 |
| 413 | Measurements of the Total and Differential Higgs Boson Production Cross Sections Combining the $H \rightarrow \tau\tau$ and $H \rightarrow ZZ^{(*)}4\ell$ Decay Channels at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 115, 091801 | 7.4 | 32 |
| 412 | Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 115, 131801 | 7.4 | 32 |

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|-----|---|-----|----------------|
| 411 | Search for pair production of Higgs bosons in the ($\overline{b}\overline{b}$) final state using proton-proton collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 3 ¹ |
| 410 | 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 | 3 ¹ |
| 409 | Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at ($\sqrt{s} = 7$ mbox{TeV}) with the ATLAS experiment. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 3 ¹ |
| 408 | 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> , 2015 , 2015, 1 | 5.4 | 3 ¹ |
| 407 | 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> , 2015 , 75, 23 | 4.2 | 3 ¹ |
| 406 | 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> , 2014 , 74, 3134 | 4.2 | 3 ¹ |
| 405 | 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> , 2014 , 2014, 1 | 5.4 | 3 ¹ |
| 404 | A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at ($\sqrt{s}=7$;TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 3 ¹ |
| 403 | Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in ($\sqrt{s}=7$ mathrm{TeV}) proton-proton collisions. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 3 ¹ |
| 402 | 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 | 3 ¹ |
| 401 | 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 | 3 ¹ |
| 400 | 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 | 3 ⁰ |
| 399 | Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2017 , 119, 191803 | 7.4 | 3 ⁰ |
| 398 | 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> , 2017 , 2017, 1 | 5.4 | 3 ⁰ |
| 397 | 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> , 2014 , 2014, 1 | 5.4 | 3 ⁰ |
| 396 | 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 | 3 ⁰ |
| 395 | 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> , 2011 , 71, 1 | 4.2 | 3 ⁰ |
| 394 | Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 3 ⁰ |

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|-----|--|-----|----|
| 393 | Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2020 , 125, 051801 | 7.4 | 30 |
| 392 | 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> , 2015 , 2015, 1 | 5.4 | 29 |
| 391 | 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> , 2014 , 2014, 1 | 5.4 | 29 |
| 390 | Search for the Dimuon Decay of the Higgs Boson in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2017 , 119, 051802 | 7.4 | 29 |
| 389 | Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. <i>European Physical Journal C</i> , 2017 , 77, 332 | 4.2 | 29 |
| 388 | 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> , 2017 , 2017, 1 | 5.4 | 29 |
| 387 | 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> , 2014 , 2014, 1 | 5.4 | 29 |
| 386 | Search for Low-Mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2018 , 121, 081801 | 7.4 | 29 |
| 385 | 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 |
| 384 | A search for pair-produced resonances in four-jet final states at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 250 | 4.2 | 28 |
| 383 | Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. <i>European Physical Journal C</i> , 2016 , 76, 295 | 4.2 | 28 |
| 382 | Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 55 | 4.2 | 28 |
| 381 | Search for minimal supersymmetric standard model Higgs Bosons \tilde{H} and for a [Formula: see text] boson in the [Formula: see text] final state produced in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 585 | 4.2 | 28 |
| 380 | 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> , 2018 , 2018, 1 | 5.4 | 28 |
| 379 | Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \rightarrow 4\ell$ and $ZZ \rightarrow 2\ell 2\mu$ final states with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 786, 223-244 | 4.2 | 28 |
| 378 | Search for a Structure in the $B_{s^0} \rightarrow \mu^+ \mu^-$ Invariant Mass Spectrum with the ATLAS Experiment. <i>Physical Review Letters</i> , 2018 , 120, 202007 | 7.4 | 28 |
| 377 | Fiducial, total and differential cross-section measurements of γ -channel single top-quark production in collisions at 8 TeV using data collected by the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 531 | 4.2 | 27 |
| 376 | Measurement of the inclusive jet cross-section in proton-proton collisions at ($\sqrt{s}=7$) TeV using 4.5 fb $^{-1}$ of data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 27 |

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|-----|--|-----|----|
| 375 | Search for invisible decays of the Higgs boson produced in association with a hadronically decaying vector boson in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 337 | 4.2 | 27 |
| 374 | 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> , 2017 , 2017, 1 | 5.4 | 27 |
| 373 | 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> , 2016 , 76, 513 | 4.2 | 27 |
| 372 | Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow WW^* \rightarrow \mu\mu$ decay channel in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 789, 508-529 | 4.2 | 27 |
| 371 | Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. <i>Physical Review Letters</i> , 2018 , 120, 211802 | 7.4 | 27 |
| 370 | Observation of Electroweak Production of a Same-Sign W Boson Pair in Association with Two Jets in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2019 , 123, 161801 | 7.4 | 26 |
| 369 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 26 |
| 368 | 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 ⁻¹ of ($\sqrt{s}=13$) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 26 |
| 367 | Measurement of τ_1 and τ_2 production with (\sqrt{s}) = 7 TeV pp collisions at ATLAS. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 26 |
| 366 | 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> , 2017 , 77, 361 | 4.2 | 26 |
| 365 | 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> , 2015 , 2015, 1 | 5.4 | 26 |
| 364 | 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> , 2014 , 2014, 1 | 5.4 | 26 |
| 363 | Test of CP invariance in vector-boson fusion production of the Higgs boson using the method in the ditau decay channel with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 658 | 4.2 | 26 |
| 362 | Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , 2019 , 14, P03017-P03017 | 1 | 25 |
| 361 | Measurement of the ZZ Production Cross Section in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2016 , 116, 101801 | 7.4 | 25 |
| 360 | 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> , 2013 , 73, 2362 | 4.2 | 25 |
| 359 | Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$ Using 36 fb ⁻¹ of pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2017 , 119, 181804 | 7.4 | 25 |
| 358 | Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 25 |

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| 357 | 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> , 2015 , 75, 165 | 4.2 | 25 |
| 356 | 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> , 2014 , 112, 091804 | 7.4 | 25 |
| 355 | 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> , 2016 , 76, 547 | 4.2 | 25 |
| 354 | 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 |
| 353 | Measurement of the top quark mass in the ($t\bar{t}\rightarrow$) lepton+jets channel from ($\sqrt{s}=8$) TeV ATLAS data and combination with previous results. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 24 |
| 352 | 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> , 2016 , 2016, 1 | 5.4 | 24 |
| 351 | 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> , 2014 , 2014, 1 | 5.4 | 24 |
| 350 | Measurement of the production cross section of prompt J/ψ 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> , 2014 , 2014, 1 | 5.4 | 24 |
| 349 | 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> , 2013 , 2013, 1 | 5.4 | 24 |
| 348 | 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> , 2012 , 72, 1 | 4.2 | 24 |
| 347 | 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> , 2016 , 76, 442 | 4.2 | 24 |
| 346 | Measurement of the Soft-Drop Jet Mass in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 121, 092001 | 7.4 | 24 |
| 345 | 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> , 2018 , 78, 154 | 4.2 | 23 |
| 344 | 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> , 2018 , 2018, 1 | 5.4 | 23 |
| 343 | Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 23 |
| 342 | 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> , 2018 , 78, 401 | 4.2 | 23 |
| 341 | Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b}\rightarrow H\rightarrow H$ Decay Channel in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 121, 191801 | 7.4 | 23 |
| 340 | Search for Higgs boson pair production in the ($gg\rightarrow gg\rightarrow b\bar{b}$) final state with 13 TeV pp collision data collected by the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 23 |

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| 339 | 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 |
| 338 | A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 -collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 26 | 4.2 | 22 |
| 337 | 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> , 2017 , 2017, 1 | 5.4 | 22 |
| 336 | Observation of electroweak $W\Xi Z$ boson pair production in association with two jets in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 793, 469-492 | 4.2 | 22 |
| 335 | Search for heavy long-lived multi-charged particles in collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 362 | 4.2 | 22 |
| 334 | Search for $W W/W Z$ resonance production in $\bar{q}q$ 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 | 22 |
| 333 | A search for prompt lepton-jets in pp collisions at ($\sqrt{\text{mathrm{s}}}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 22 |
| 332 | Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb $^{-1}$ of ($\sqrt{s}=13$) TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 22 |
| 331 | A search for high-mass resonances decaying to $\Xi\Xi$ in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 22 |
| 330 | 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> , 2015 , 2015, 1 | 5.4 | 22 |
| 329 | 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> , 2018 , 2018, 1 | 5.4 | 22 |
| 328 | Search for invisible Higgs boson decays in vector boson fusion at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 793, 499-519 | 4.2 | 21 |
| 327 | 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> , 2019 , 2019, 1 | 5.4 | 21 |
| 326 | Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 79 | 4.2 | 21 |
| 325 | Measurements of fiducial cross-sections for [Formula: see text] production with one or two additional -jets in collisions at [Formula: see text]=8 TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 11 | 4.2 | 21 |
| 324 | Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3195 | 4.2 | 21 |
| 323 | 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> , 2016 , 2016, 1 | 5.4 | 21 |
| 322 | Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 21 |

| | | | |
|-----|--|-----|----|
| 321 | A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021 , 812, 135980 | 4.2 | 21 |
| 320 | 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> , 2018 , 78, 1007 | 4.2 | 21 |
| 319 | Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 21 |
| 318 | 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> , 2018 , 78, 997 | 4.2 | 21 |
| 317 | Search for doubly charged scalar bosons decaying into same-sign boson pairs with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 58 | 4.2 | 20 |
| 316 | Search for Scalar Charm Quark Pair Production in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 114, 161801 | 7.4 | 20 |
| 315 | 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> , 2016 , 2016, 1 | 5.4 | 20 |
| 314 | 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 |
| 313 | Measurement of ($W^{\pm}Z$) production cross sections and gauge boson polarisation in pp collisions at ($\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 20 |
| 312 | 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> , 2017 , 2017, 1 | 5.4 | 20 |
| 311 | Evidence of $W\gamma$ Production in pp Collisions at $\sqrt{s}=8$ TeV and Limits on Anomalous Quartic Gauge Couplings with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 115, 031802 | 7.4 | 20 |
| 310 | Search for new resonances in mass distributions of jet pairs using 139 fb $^{-1}$ of pp collisions at ($\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 20 |
| 309 | Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at [$\sqrt{s} = 13$ TeV] with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 565 | 4.2 | 20 |
| 308 | Measurement of the boson polarisation in [$W^{\pm}Z$] events from collisions at [$\sqrt{s} = 8$ TeV] in the lepton+jet channel with ATLAS. <i>European Physical Journal C</i> , 2017 , 77, 264 | 4.2 | 19 |
| 307 | Performance of top-quark and (W)-boson tagging with ATLAS in Run 2 of the LHC. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 19 |
| 306 | Search for direct top squark pair production in final states with two leptons in TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 898 | 4.2 | 19 |
| 305 | Study of the material of the ATLAS inner detector for Run 2 of the LHC. <i>Journal of Instrumentation</i> , 2017 , 12, P12009-P12009 | 1 | 19 |
| 304 | 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> , 2017 , 77, 872 | 4.2 | 19 |

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|-----|---|-----|----|
| 303 | 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 |
| 302 | 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 |
| 301 | Search for High-Mass Resonances Decaying to $\mu\mu$ in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 120, 161802 | 7.4 | 18 |
| 300 | Search for long-lived neutral particles in pp collisions at ($\sqrt{s} = 13$ ~{text { TeV}}) that decay into displaced hadronic jets in the ATLAS calorimeter. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 18 |
| 299 | Searches for third-generation scalar leptoquarks in ($\sqrt{s} = 13$ TeV) pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 18 |
| 298 | 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 |
| 297 | 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 |
| 296 | 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> , 2014 , 2014, 1 | 5.4 | 18 |
| 295 | 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 |
| 294 | Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at $\sqrt{s}=8$ TeV Measured with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 114, 221802 | 7.4 | 18 |
| 293 | Search for a Heavy Neutral Particle Decaying to $e\bar{e}$ or $\mu\mu$ in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 115, 031801 | 7.4 | 18 |
| 292 | 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> , 2015 , 2015, 1 | 5.4 | 18 |
| 291 | 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> , 2015 , 2015, 1-65 | 5.4 | 18 |
| 290 | 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 |
| 289 | 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> , 2012 , 72, 1 | 4.2 | 18 |
| 288 | 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> , 2011 , 71, 1 | 4.2 | 18 |
| 287 | 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 |
| 286 | Observation of Centrality-Dependent Acoplanarity for Muon Pairs Produced via Two-Photon Scattering in Pb+Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 121, 212301 | 7.4 | 18 |

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|-----|--|-----|----|
| 285 | Searches for heavy ZZ and ZW resonances in the $b\bar{q}$ and $\bar{b}q$ 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 |
| 284 | 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 |
| 283 | Measurement of polarization in τ -decays with the ATLAS detector in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2062 | 4.2 | 17 |
| 282 | 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 |
| 281 | 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 |
| 280 | 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 |
| 279 | 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 |
| 278 | ATLAS data quality operations and performance for 2015–2018 data-taking. <i>Journal of Instrumentation</i> , 2020 , 15, P04003-P04003 | 1 | 16 |
| 277 | 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 |
| 276 | Search for the Standard Model Higgs boson decaying into ($b\bar{b}$) produced in association with top quarks decaying hadronically in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 16 |
| 275 | 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 |
| 274 | 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 |
| 273 | 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 |
| 272 | 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> , 2015 , 2015, 1 | 5.4 | 16 |
| 271 | 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 |
| 270 | 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 |
| 269 | Measurement of the production cross-section of ($\tau\tau$) $\rightarrow J/\psi + \tau\tau$ in pp collisions at ($\sqrt{s}=7$) TeV at ATLAS. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 16 |
| 268 | Search for anomalous production of prompt like-sign lepton pairs at ($\sqrt{s}=7$; TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 16 |

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|-----|---|-----|----|
| 267 | Studies of the performance of the ATLAS detector using cosmic-ray muons. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 16 |
| 266 | 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 |
| 265 | Search for the Higgs boson produced in association with a boson and decaying to four q -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 |
| 264 | 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 |
| 263 | 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 |
| 262 | Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $(\sqrt{s_{NN}} = 5.02 \sim 8.76)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 16 |
| 261 | 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> , 2018 , 2018, 1 | 5.4 | 16 |
| 260 | 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 |
| 259 | Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 124, 031802 | 7.4 | 15 |
| 258 | 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 |
| 257 | 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 |
| 256 | Measurements of (ZS) and $X(3872) \rightarrow J/\psi \chi_{c0}$ production in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 15 |
| 255 | 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 |
| 254 | Determination of the Ratio of b-Quark Fragmentation Fractions $f(s)/f(d)$ in pp Collisions at $\sqrt{s}=7$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2015 , 115, 262001 | 7.4 | 15 |
| 253 | 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 |
| 252 | 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> , 2013 , 15, 043009 | 2.9 | 15 |
| 251 | 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> , 2011 , 71, 1 | 4.2 | 15 |
| 250 | Dijet Resonance Search with Weak Supervision Using $\sqrt{s}=13$ TeV pp Collisions in the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 125, 131801 | 7.4 | 15 |

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|-----|--|-----|----|
| 249 | CP Properties of Higgs Boson Interactions with Top Quarks in the $t\bar{t}H$ and tH Processes Using $H \rightarrow b\bar{b}$ with the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 125, 061802 | 7.4 | 15 |
| 248 | 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 |
| 247 | Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 625 | 4.2 | 15 |
| 246 | Measurement of the $\sigma(\text{lepton pair})$ and $\sigma(\text{lepton pair})$ production cross sections in multilepton final states using 3.2 fb $^{-1}$ of $\sqrt{s}=13$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 40 | 4.2 | 14 |
| 245 | Measurements of electroweak $\sigma(\text{lepton pair})$ production and constraints on anomalous gauge couplings with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 474 | 4.2 | 14 |
| 244 | 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 |
| 243 | Measurement of the $\sigma(\text{lepton pair})$ 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 |
| 242 | Measurement of the production cross-section of a single top quark in association with a Z boson in proton-proton collisions at 13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 780, 557-577 | 4.2 | 14 |
| 241 | 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 |
| 240 | 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 |
| 239 | 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 |
| 238 | Search for charged Higgs bosons through the violation of lepton universality in (lepton pair) 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 |
| 237 | 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 |
| 236 | A search for $\sigma(\text{lepton pair})$ resonances with the ATLAS detector in 2.05 fb of proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2012 , 72, 2083 | 4.2 | 14 |
| 235 | Performance of the ATLAS detector using first collision data. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1 | 5.4 | 14 |
| 234 | 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 |
| 233 | 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> , 2018 , 2018, 1 | 5.4 | 14 |
| 232 | Combined measurement of differential and total cross sections in the $H \rightarrow b\bar{b}$ and the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channels at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 786, 114-133 | 4.2 | 14 |

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| 231 | 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 |
| 230 | 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 |
| 229 | Search for top-quark decays $t \rightarrow Hq$ with 36 fb ⁻¹ 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 |
| 228 | 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> , 2016 , 2016, 1 | 5.4 | 13 |
| 227 | 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 |
| 226 | 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 |
| 225 | 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 $[European Physical Journal C$, 2016 , 76, 1 | 4.2 | 13 |
| 224 | 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 |
| 223 | 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 |
| 222 | Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at $(\sqrt{s} = 7\text{~TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 13 |
| 221 | 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 |
| 220 | Search for a heavy neutral particle decaying into an electron and a muon using 1 fb ⁻¹ of ATLAS data. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 13 |
| 219 | Fluctuations of anisotropic flow in Pb+Pb collisions at $(\sqrt{\langle s \rangle_{NN}}) = 5.02$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 13 |
| 218 | Performance of the ATLAS muon triggers in Run 2. <i>Journal of Instrumentation</i> , 2020 , 15, P09015-P09015 ₁ | | 13 |
| 217 | 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 |
| 216 | 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 |
| 215 | 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 |
| 214 | Operation and performance of the ATLAS Tile Calorimeter in Run ₁ . <i>European Physical Journal C</i> , 2018 , 78, 987 | 4.2 | 13 |

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| 213 | 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 |
| 212 | 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 |
| 211 | 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 |
| 210 | 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 |
| 209 | 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 |
| 208 | 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 |
| 207 | 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 |
| 206 | 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 |
| 205 | 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 |
| 204 | Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp and Pb+Pb Collisions in ATLAS. <i>Physical Review Letters</i> , 2019 , 123, 042001 | 7.4 | 12 |
| 203 | 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 |
| 202 | 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 |
| 201 | Measurement of the cross-section for electroweak production of dijets in association with a Z boson in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 775, 206-228 | 4.2 | 12 |
| 200 | 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 |
| 199 | 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 |
| 198 | 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 |
| 197 | Measurements of top quark spin observables in (\overline{t}) events using dilepton final states in ($\sqrt{s}=8$) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 12 |
| 196 | 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 |

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| 195 | Measurement of the top-quark mass in $(\overline{t}) + 1$ -jet events collected with the ATLAS detector in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 12 |
| 194 | Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $(\sqrt{s}=8\text{ TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 11 |
| 193 | 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 |
| 192 | Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $13\sqrt{\text{TeV}}$. <i>European Physical Journal C</i> , 2019 , 79, | 4.2 | 11 |
| 191 | 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 |
| 190 | Probing the W tb vertex structure in t-channel single-top-quark production and decay in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 11 |
| 189 | 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 |
| 188 | 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 |
| 187 | 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 |
| 186 | Measurement of W and Z production in proton-proton collisions at $(\sqrt{s} = 7)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 11 |
| 185 | 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 |
| 184 | . <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 10 |
| 183 | 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 |
| 182 | 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> , 2016 , 2016, 1 | 5.4 | 10 |
| 181 | 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 |
| 180 | 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 |
| 179 | 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 |
| 178 | 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 |

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| 177 | 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 |
| 176 | . <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 9 |
| 175 | Measurement of the ZZ production cross section in proton-proton collisions at ($\sqrt{s}=8$) TeV using the ZZ $\rightarrow \mu\mu$ and (ZZ to $\{\ell\}^{\{-\}}\{\ell\}^{\{+\}}\nu$ overline $\{\nu\}$) decay channels with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 9 |
| 174 | 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 |
| 173 | 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 |
| 172 | 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 |
| 171 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4(ℓ) decay channel at (\sqrt{s}) = 13 TeV. <i>European Physical Journal C</i> , 2020 , 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> , 2018 , 2018, 1 | 5.4 | 9 |
| 169 | Probing the Quantum Interference between Singly and Doubly Resonant Top-Quark Production in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 121, 152002 | 7.4 | 9 |
| 168 | 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 |
| 167 | Measurement of VH, ($\mathrm{H}\rightarrow\mathrm{b}\overline{\mathrm{b}}$) 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> , 2019 , 2019, 1 | 5.4 | 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> , 2020 , 2020, 1 | 5.4 | 8 |
| 165 | Measurement of Azimuthal Anisotropy of Muons from Charm and Bottom Hadrons in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 124, 082301 | 7.4 | 8 |
| 164 | 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 |
| 163 | Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period. <i>Journal of Instrumentation</i> , 2016 , 11, P05013-P05013 | 1 | 8 |
| 162 | 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 |
| 161 | Measurement of splitting scales in τ -events at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2432 | 4.2 | 8 |
| 160 | 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 |

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| 159 | 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 |
| 158 | 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 |
| 157 | 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 |
| 156 | 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 |
| 155 | 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 |
| 154 | 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 |
| 153 | Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 8 |
| 152 | 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 |
| 151 | Search for charged Higgs bosons decaying into a top quark and a bottom quark at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 8 |
| 150 | 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 |
| 149 | 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 |
| 148 | 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 |
| 147 | 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 |
| 146 | Measurements of inclusive and differential fiducial cross-sections of $(t\bar{t})\gamma$ production in leptonic final states at $(\sqrt{s}=13\text{-}\mathrm{TeV})$ in ATLAS. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 7 |
| 145 | A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeVpp collisions. <i>Journal of Instrumentation</i> , 2016 , 11, P11020-P11020 | 1 | 7 |
| 144 | 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 |
| 143 | Transverse momentum and process dependent azimuthal anisotropies in $(\sqrt{s}_{\mathrm{NN}})=8.16)$ TeV p+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 7 |
| 142 | Search for new phenomena in high-mass final states with a photon and a jet from collisions at $= 13\text{-}\mathrm{TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 102 | 4.2 | 7 |

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| 141 | 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> , 2016 , 76, 683 | 4.2 | 7 |
| 140 | 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 |
| 139 | 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 |
| 138 | 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 |
| 137 | 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 |
| 136 | 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 |
| 135 | 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 |
| 134 | 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 |
| 133 | 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 |
| 132 | Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties. <i>Journal of Instrumentation</i> , 2017 , 12, P05002-P05002 | 1 | 7 |
| 131 | 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 |
| 130 | Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $(\sqrt{s} = 13, \text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 7 |
| 129 | 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 |
| 128 | Measurement of the $[\text{Formula: see text}]$ dijet cross section in collisions at $[\text{Formula: see text}]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 670 | 4.2 | 7 |
| 127 | Search for new phenomena in different-flavour high-mass dilepton final states in collisions at $[\text{Formula: see text}]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 541 | 4.2 | 7 |
| 126 | Search for direct top squark pair production in final states with two tau leptons in collisions at $[\text{Formula: see text}]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 81 | 4.2 | 7 |
| 125 | Measurement of $(W^{\pm} p\bar{p})$ boson production in Pb+Pb collisions at $(\sqrt{s_{\text{NN}}}) = 5.02\text{--}8.16$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 7 |
| 124 | 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 |

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| 123 | Measurements of WH and ZH production in the (H \rightarrow $\bar{b}b$) decay channel in pp collisions at (13, \sqrt{s}) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 7 |
| 122 | Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 125, 221802 | 7.4 | 6 |
| 121 | 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 |
| 120 | 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 |
| 119 | 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 |
| 118 | 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> , 2017 , 2017, 1 | 5.4 | 6 |
| 117 | Search for ($t\bar{t}$) resonances in fully hadronic final states in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 6 |
| 116 | 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 |
| 115 | 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 |
| 114 | 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 |
| 113 | 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 |
| 112 | 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 |
| 111 | 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> , 2017 , 77, 220 | 4.2 | 5 |
| 110 | Combinations of single-top-quark production cross-section measurements and $ f_{LVVtb} $ determinations at (\sqrt{s}) = 7 and 8 TeV with the ATLAS and CMS experiments. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 5 |
| 109 | Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at \sqrt{s} = 13 TeV. <i>Physical Review Letters</i> , 2019 , 122, 151801 | 7.4 | 5 |
| 108 | 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 |
| 107 | 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 |
| 106 | Search for Higgs and Z Boson Decays to $\tau\nu$ with the ATLAS Detector. <i>Physical Review Letters</i> , 2016 , 117, 111802 | 7.4 | 5 |

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| 105 | 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 |
| 104 | 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 |
| 103 | Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS. <i>Physical Review Letters</i> , 2020 , 125, 261801 | 7-4 | 5 |
| 102 | Evidence for electroweak production of two jets in association with a Z pair in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 803, 135341 | 4-2 | 5 |
| 101 | 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 |
| 100 | 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 |
| 99 | 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 |
| 98 | 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 |
| 97 | 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 |
| 96 | 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 |
| 95 | Measurement of the relative width difference of the (B^0 system) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 5 |
| 94 | 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 |
| 93 | 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 |
| 92 | 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 |
| 91 | 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 |
| 90 | Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 124, 222002 | 7-4 | 4 |
| 89 | Measurement of jet activity in top quark events using the e final state with two b-tagged jets in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 4 |
| 88 | Combination of inclusive and differential ($\overline{t}t$) charge asymmetry measurements using ATLAS and CMS data at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 4 |

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| 87 | 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 |
| 86 | Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 4 |
| 85 | 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 |
| 84 | Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. <i>Nature Physics</i> , 2021 , 17, 819-825 | 16.2 | 4 |
| 83 | 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 |
| 82 | 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 |
| 81 | 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 |
| 80 | 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 |
| 79 | 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 |
| 78 | 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 |
| 77 | Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} \sim 13$ TeV with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , 2019 , 79, | 4.2 | 3 |
| 76 | Measurement of the k_t splitting scales in $Z \rightarrow \mu\mu$ 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 |
| 75 | Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2020 , 125, 251802 | 7.4 | 3 |
| 74 | Testing Bell inequalities in Higgs boson decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022 , 825, 136866 | 4.2 | 3 |
| 73 | Measurement of K_S^0 and Λ^0 production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 3 |
| 72 | Determination of jet calibration and energy resolution in proton-proton collisions at ($\sqrt{s}=8$) TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 3 |
| 71 | 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 |
| 70 | 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 |

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| 69 | Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 3 |
| 68 | 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 |
| 67 | Medium-Induced Modification of Z-Tagged Charged Particle Yields in Pb+Pb Collisions at 5.02 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 126, 072301 | 7-4 | 3 |
| 66 | 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 |
| 65 | Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger. <i>Journal of Instrumentation</i> , 2020 , 15, P11016-P11016 | 1 | 2 |
| 64 | 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 |
| 63 | 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 |
| 62 | 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 |
| 61 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at ($\sqrt{s}=8$ -)TeV with the ATLAS detector 2015 , 75, 1 | | 2 |
| 60 | Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using ($\sqrt{s} = 13$ TeV) proton-proton collision data. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4-2 | 2 |
| 59 | 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 |
| 58 | 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 |
| 57 | Measurements of inclusive and differential cross-sections of combined $(\overline{t})\gamma$ and tW production in the e channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 2 |
| 56 | 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 |
| 55 | Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into $W^{\pm}W^{\pm}$ or ZZ in Fully Hadronic Final States from $\sqrt{s}=13$ TeV pp Collisions Recorded with the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 126, 121802 | 7-4 | 2 |
| 54 | Longitudinal Flow Decorrelations in Xe+Xe Collisions at $\sqrt{s_{NN}}=5.44$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 126, 122301 | 7-4 | 2 |
| 53 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4-2 | 2 |
| 52 | Search for Displaced Leptons in $\sqrt{s}=13$ TeV pp Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 127, 051802 | 7-4 | 2 |

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| 51 | Two-particle azimuthal correlations in photonuclear ultraperipheral Pb+Pb collisions at 5.02 TeV with ATLAS. <i>Physical Review C</i> , 2021 , 104, | 2.7 | 2 |
| 50 | Search for supersymmetry in events with four or more charged leptons in 139 fb ⁻¹ of (\sqrt{s}) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 2 |
| 49 | Measurement of ZZ production in the final state with the ATLAS detector in pp collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 2 |
| 48 | 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> , 2019 , 79, 1 | 4.2 | 2 |
| 47 | Exclusive dimuon production in ultraperipheral Pb+Pb collisions at sNN=5.02TeV with ATLAS. <i>Physical Review C</i> , 2021 , 104, | 2.7 | 2 |
| 46 | Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at (\sqrt{s}) = 13 TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 2 |
| 45 | A search for an excited muon decaying to a muon and two jets in pp collisions at (\sqrt{s})=8 TeV with the ATLAS detector. <i>New Journal of Physics</i> , 2016 , 18, 073021 | 2.9 | 1 |
| 44 | Operation and performance of the ATLAS semiconductor tracker in LHC Run 2. <i>Journal of Instrumentation</i> , 2022 , 17, P01013 | 1 | 1 |
| 43 | 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 2015 , 75, 1 | | 1 |
| 42 | 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 TeV with the ATLAS detector 2016 , 76, 1 | | 1 |
| 41 | Measurement of the W-boson mass in pp collisions at (\sqrt{s})=7 TeV with the ATLAS detector 2018 , 78, 1 | | 1 |
| 40 | Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at (\sqrt{s})=13 TeV 2018 , 78, 1 | | 1 |
| 39 | Search for top squarks in events with a Higgs or Z boson using 139 fb ⁻¹ of pp collision data at (\sqrt{s})=13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 1 |
| 38 | 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 ⁻¹ of (\sqrt{s})=13 TeV pp collisions with the ATLAS detector 2018 , 2018, 1 | | 1 |
| 37 | Measurement of differential cross sections for single diffractive dissociation in (\sqrt{s}) = 8 TeV pp collisions using the ATLAS ALFA spectrometer. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 1 |
| 36 | Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 1 |
| 35 | Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 1 |
| 34 | Measurement of the CP-violating phase $\phi_{s\psi}$ in $B_s^0 \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV. <i>European Physical Journal C</i> , 2021 , 81, | 4.2 | 1 |

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|----|--|------|---|
| 33 | Test of the universality of κ and λ lepton couplings in W-boson decays with the ATLAS detector. <i>Nature Physics</i> , 2021 , 17, 813-818 | 16.2 | 1 |
| 32 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential W^\pm and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 1 |
| 31 | A search for the decays of stopped long-lived particles at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 1 |
| 30 | Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at $(\sqrt{s})=13$ TeV. <i>Journal of Instrumentation</i> , 2021 , 16, P07029 | 1 | 1 |
| 29 | Measurement of single top-quark production in association with a W boson in the single-lepton channel at $(\sqrt{s} = 8, \text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 1 |
| 28 | Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents. <i>Journal of Instrumentation</i> , 2021 , 16, P08025 | 1 | 1 |
| 27 | Measurements of the inclusive and differential production cross sections of a top-quark \bar{t} quark pair in association with a Z boson at $(\sqrt{s} = 13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 1 |
| 26 | Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at $\sqrt{s}=13$ TeV Using the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 127, 141801 | 7.4 | 1 |
| 25 | Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 1 |
| 24 | Search for chargino $\bar{\nu}$ 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> , 2021 , 81, 1 | 4.2 | 1 |
| 23 | Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 1 |
| 22 | 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> , 2022 , 82, 1 | 4.2 | 1 |
| 21 | Emulating the impact of additional proton \bar{p} interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. <i>Computing and Software for Big Science</i> , 2022 , 6, 1 | 6 | 0 |
| 20 | Performance of the ATLAS Level-1 topological trigger in Run 2. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | 0 |
| 19 | Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 18 | 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 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | 0 |
| 17 | Measurement of the $t(\bar{t})t(\bar{t})$ production cross section in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |
| 16 | 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> , 2021 , 2021, 1 | 5.4 | 0 |

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| 15 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at ($\sqrt{s}=13$,text {TeV}). <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | ○ |
| 14 | Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | ○ |
| 13 | Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | ○ |
| 12 | The ATLAS Fast Tracker system. <i>Journal of Instrumentation</i> , 2021 , 16, P07006 | 1 | ○ |
| 11 | Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | ○ |
| 10 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , 2022 , 6, 1 | 6 | ○ |
| 9 | 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 Run 2 data. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | ○ |
| 8 | Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022 , 137066 | 4.2 | ○ |
| 7 | Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | ○ |
| 6 | Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | ○ |
| 5 | Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | ○ |
| 4 | Search for Lepton-Flavor Violation in Z-Boson Decays with ℓ Leptons with the ATLAS Detector.. <i>Physical Review Letters</i> , 2021 , 127, 271801 | 7.4 | ○ |
| 3 | Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow J/\psi$ 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 | The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | |
| 1 | A search for an unexpected asymmetry in the production of e^+ and e^- pairs in proton-proton collisions recorded by the ATLAS detector at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022 , 137106 | 4.2 | |