

## List of Publications by Citations

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658  
papers

23,242  
citations

67  
h-index

118  
g-index

696  
ext. papers

27,551  
ext. citations

5  
avg, IF

2.83  
L-index

| #   | Paper   | IF  | Citations |
|-----|---|-----|-----------|
| 658 | The ATLAS Simulation Infrastructure. <i>European Physical Journal C</i> , <b>2010</b> , 70, 823-874   | 4.2 | 817       |
| 657 | Observation of $J/\psi$ Resonances Consistent with Pentaquark States in $\Lambda_b^0 \rightarrow \Lambda^0 \bar{K}^0 p$ Decays. <i>Physical Review Letters</i> , <b>2015</b> , 115, 072001  | 7.4 | 580       |
| 656 | Test of lepton universality using $b \rightarrow s \ell \ell$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 113, 151601  | 7.4 | 542       |
| 655 | Measurement of the ratio of branching fractions $B(B \rightarrow D^{*+} \mu^-) / B(B \rightarrow D^{*+} e^-)$ . <i>Physical Review Letters</i> , <b>2015</b> , 115, 111803  | 7.4 | 316       |
| 654 | Test of lepton universality with $B^0 \rightarrow \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 298       |
| 653 | Improved luminosity determination in collisions at [Formula: see text] using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2518   | 4.2 | 276       |
| 652 | Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , <b>2017</b> , 77, 317   | 4.2 | 272       |
| 651 | Muon reconstruction performance of the ATLAS detector in proton-proton collision data at [Formula: see text]=13 TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 292   | 4.2 | 263       |
| 650 | Observation of the Doubly Charmed Baryon $\Lambda_{cc}^{++}$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 112001   | 7.4 | 257       |
| 649 | Observation of the resonant character of the $Z(4430)^-$ state. <i>Physical Review Letters</i> , <b>2014</b> , 112, 222002  | 7.4 | 234       |
| 648 | Angular analysis of the $B^0 \rightarrow \mu^+ \mu^-$ decay using 3 fb of integrated luminosity. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 232       |
| 647 | Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 232       |
| 646 | Performance of missing transverse momentum reconstruction in proton-proton collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ) with ATLAS. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1                                      | 4.2 | 217       |
| 645 | Jet energy measurement with the ATLAS detector in proton-proton collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1  | 4.2 | 209       |
| 644 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 299 | 4.2 | 202       |
| 643 | Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 199       |
| 642 | Jet energy measurement and its systematic uncertainty in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 17                                   | 4.2 | 194       |

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| 641 | Luminosity determination in collisions at [Formula: see text] = 8 TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2016</b> , 76, 653  | 4.2 | 188 |
| 640 | Measurements of the Higgs boson production and decay rates and coupling strengths using collision data at [Formula: see text] and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , <b>2016</b> , 76, 6                    | 4.2 | 185 |
| 639 | Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , <b>2017</b> , 77, 490   | 4.2 | 177 |
| 638 | Luminosity determination in pp collisions at ( $\sqrt{s} = 7$ ) TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2 | 167 |
| 637 | Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3130   | 4.2 | 166 |
| 636 | Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2941                                      | 4.2 | 160 |
| 635 | Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1  | 4.2 | 160 |
| 634 | Observation of Five New Narrow $\chi_{c0}$ States Decaying to $\chi_{c1} K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 182001   | 7.4 | 154 |
| 633 | Jet energy resolution in proton-proton collisions at [Formula: see text] recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2306   | 4.2 | 153 |
| 632 | Search for an additional, heavy Higgs boson in the [Formula: see text] decay channel at [Formula: see text] in [Formula: see text] collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 45         | 4.2 | 152 |
| 631 | Performance of pile-up mitigation techniques for jets in [Formula: see text] collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 581                                      | 4.2 | 148 |
| 630 | Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at ( $\sqrt{s_{NN}}$ ) = 2.76 TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1                | 5.4 | 143 |
| 629 | Angular analysis and differential branching fraction of the decay $B^0 \rightarrow \pi^+ \pi^- \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 138 |
| 628 | Measurement of the top quark-pair production cross section with ATLAS in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 138 |
| 627 | Search for Lepton-Universality Violation in $B^+ \rightarrow K^+ \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191801   | 7.4 | 137 |
| 626 | Measurement of the $e^+e^- \rightarrow \mu^+\mu^-$ cross section between 600 and 900 MeV using initial state radiation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 753, 629-638 | 4.2 | 129 |
| 625 | Measurement of the Ratio of the $B^0 \rightarrow D^{*-} \mu^+ \mu^-$ and $B^0 \rightarrow D^{*-} \mu^+ \mu^-$ Branching Fractions Using Three-Prong Lepton Decays. <i>Physical Review Letters</i> , <b>2018</b> , 120, 171802                | 7.4 | 126 |
| 624 | Search for new high-mass phenomena in the dilepton final state using 36 fb <sup>-1</sup> of proton-proton collision data at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1     | 5.4 | 126 |

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| 623 | Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 124 |
| 622 | Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at ( $\sqrt{s}$ ) = 8TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                                   | 5.4 | 120 |
| 621 | Search for charged Higgs bosons decaying via $H \rightarrow t\bar{t}$ events using pp collision data at ( $\sqrt{s}$ ) = 7;TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 112 |
| 620 | ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. <i>European Physical Journal C</i> , <b>2015</b> , 75, 510  | 4.2 | 109 |
| 619 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using ( $\sqrt{s}$ )=8) TeV proton-proton collision data. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 108 |
| 618 | Measurement of the $[Formula: see text]$ production cross-section using $[Formula: see text]$ events with $[Formula: see text]$ -tagged jets in $[Formula: see text]$ collisions at $[Formula: see text]$ and 8TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3109 | 4.2 | 107 |
| 617 | Measurement of the $B_{s^0} \rightarrow B^+ \mu^-$ Branching Fraction and Effective Lifetime and Search for $B^0 \rightarrow B^+ \mu^-$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 191801  | 7.4 | 106 |
| 616 | Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 476   | 4.2 | 104 |
| 615 | Search for doubly charged Higgs bosons in like-sign dilepton final states at ( $\sqrt{s}$ ) = 7 $\text{TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 104 |
| 614 | Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2 | 103 |
| 613 | Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 101 |
| 612 | Observation of $J/\psi$ Structures Consistent with Exotic States from Amplitude Analysis of $B^+ \rightarrow J/\psi K^+$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 022003   | 7.4 | 98  |
| 611 | Future Physics Programme of BESIII. <i>Chinese Physics C</i> , <b>2020</b> , 44, 040001   | 2.2 | 96  |
| 610 | Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $[Formula: see text]$ in $[Formula: see text]$ collisions at $[Formula: see text]$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 349                              | 4.2 | 94  |
| 609 | Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in ( $\sqrt{s}$ )=8) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 92  |
| 608 | Evidence for Exotic Hadron Contributions to $[b^0 \rightarrow \bar{p} p^-]$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 082003  | 7.4 | 91  |
| 607 | Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 91  |
| 606 | Model-Independent Evidence for $J/\psi$ Contributions to $[b^0 \rightarrow \bar{p} K^+]$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 082002   | 7.4 | 85  |

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| 605 | Measurement of [Formula: see text] production with a veto on additional central jet activity in collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2043                           | 4.2 | 82 |
| 604 | Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb <sup>-1</sup> of pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 81 |
| 603 | Measurement of the Z/ $\tau$ boson transverse momentum distribution in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 79 |
| 602 | Measurement of the charge asymmetry in top quark pair production in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2039   | 4.2 | 78 |
| 601 | Search for heavy neutrinos and right-handed bosons in events with two leptons and jets in collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2056                                      | 4.2 | 78 |
| 600 | Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in ( $\sqrt{s}$ ) = 8 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1 | 5.4 | 76 |
| 599 | Search for a light charged Higgs boson in the decay channel [Formula: see text] in [Formula: see text] events using collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2465            | 4.2 | 76 |
| 598 | Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 74 |
| 597 | Search for production of [Formula: see text] resonances decaying to a lepton, neutrino and jets in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 209      | 4.2 | 73 |
| 596 | ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 72 |
| 595 | Measurement of the inclusive jet cross-section in collisions at [Formula: see text] and comparison to the inclusive jet cross-section at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2509    | 4.2 | 71 |
| 594 | Rapidity gap cross sections measured with the ATLAS detector in pp collisions at ( $\sqrt{s} = 7$ mbox{~TeV}). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 70 |
| 593 | Searches for scalar leptoquarks in collisions at [Formula: see text] = 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 5  | 4.2 | 68 |
| 592 | Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 67 |
| 591 | Jet mass and substructure of inclusive jets in ( $\sqrt{s} = 7$ ; {text{TeV}}) pp collisions with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 67 |
| 590 | Search for Higgs boson pair production in the [Formula: see text] final state from collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 412  | 4.2 | 66 |
| 589 | Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-39  | 5.4 | 66 |
| 588 | Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 903   | 4.2 | 66 |

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| 587 | Measurements of prompt charm production cross-sections in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 65 |
| 586 | Search for Hidden-Sector Bosons in $B(0) \rightarrow K^{*0} \ell^{+} \ell^{-}$ Decays. <i>Physical Review Letters</i> , <b>2015</b> , 115, 161802   | 7.4 | 65 |
| 585 | Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 65 |
| 584 | 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> , <b>2015</b> , 2015, 1  | 5.4 | 64 |
| 583 | Search for Structure in the $B_{s}^{0} \rightarrow \mu^{+} \mu^{-}$ Invariant Mass Spectrum. <i>Physical Review Letters</i> , <b>2016</b> , 117, 152003   | 7.4 | 64 |
| 582 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at ( $\sqrt{s}=8$ ) TeV proton-proton collisions using the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1               | 5.4 | 64 |
| 581 | Measurement of the transverse momentum and [Formula: see text] distributions of Drell-Yan lepton pairs in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 291               | 4.2 | 63 |
| 580 | Search for resonant diboson production in the [Formula: see text] final state in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 69                                   | 4.2 | 62 |
| 579 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2017</b> , 77, 195  | 4.2 | 61 |
| 578 | Observation of overlapping spin-1 and spin-3 D0K- resonances at mass 2.86 GeV/c <sup>2</sup> . <i>Physical Review Letters</i> , <b>2014</b> , 113, 162001   | 7.4 | 61 |
| 577 | Search for dark matter in events with heavy quarks and missing transverse momentum in [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 92   | 4.2 | 60 |
| 576 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using ( $\sqrt{s} = 7$ TeV) pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1                         | 5.4 | 60 |
| 575 | Measurement of the $\tau$ -boson mass in pp collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 110   | 4.2 | 59 |
| 574 | Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 59 |
| 573 | Measurement of the W and Z/ $\tau$ production cross sections in proton-proton collisions at ( $\sqrt{s} = 7$ ; {text{TeV}}) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1  | 5.4 | 58 |
| 572 | 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> , <b>2015</b> , 2015, 1   | 5.4 | 57 |
| 571 | Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ in fully hadronic final states using pp collision data at ( $\sqrt{s} = 8$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1 | 5.4 | 56 |
| 570 | Constraints on the off-shell Higgs boson signal strength in the high-mass and final states with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 335  | 4.2 | 56 |

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| 569 | Precision measurement and interpretation of inclusive $t\bar{t}$ and production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 367   | 4.2 | 56 |
| 568 | 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. <i>European Physical Journal C</i> , <b>2018</b> , 78, 199                          | 4.2 | 55 |
| 567 | Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 55 |
| 566 | Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1  | 4.2 | 55 |
| 565 | Summary of the searches for squarks and gluinos using $\sqrt{s}=8$ TeV pp collisions with the ATLAS experiment at the LHC. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 55 |
| 564 | Measurements of the $t\bar{t}$ production cross sections in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 82   | 4.2 | 54 |
| 563 | Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1        | 5.4 | 54 |
| 562 | Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1 | 5.4 | 54 |
| 561 | Measurement of $W\bar{t}Z$ production in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 54 |
| 560 | Precision measurement of CP violation in $B(S)(0)\rightarrow\bar{B}+K^-$ decays. <i>Physical Review Letters</i> , <b>2015</b> , 114, 041801  | 7.4 | 53 |
| 559 | Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 392  | 4.2 | 53 |
| 558 | Search for new phenomena in events with at least three photons collected in collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 210   | 4.2 | 53 |
| 557 | Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 53 |
| 556 | 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> , <b>2011</b> , 71, 1   | 4.2 | 53 |
| 555 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. <i>European Physical Journal C</i> , <b>2016</b> , 76, 666   | 4.2 | 53 |
| 554 | Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                                      | 5.4 | 52 |
| 553 | Search for lepton-flavour-violating decays of the Higgs and bosons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 70  | 4.2 | 52 |
| 552 | Search for dark matter at $\sqrt{s}=13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 393                           | 4.2 | 52 |

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| 551 | Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3157  | 4.2 | 52 |
| 550 | Measurement of the W boson polarization in top quark decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 52 |
| 549 | Performance of the ATLAS muon trigger in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 120  | 4.2 | 51 |
| 548 | Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 51 |
| 547 | Measurement of the production cross section of jets in association with a Z boson in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 50 |
| 546 | Evidence for the ( $H \rightarrow b\bar{b}$ ) decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 50 |
| 545 | Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in [Formula: see text] TeV [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 208                         | 4.2 | 50 |
| 544 | 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> , <b>2020</b> , 80, 1 | 4.2 | 50 |
| 543 | Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 303   | 4.2 | 49 |
| 542 | Measurement of charged-particle spectra in Pb+Pb collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ ) TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 49 |
| 541 | Search for high-mass resonances decaying to dilepton final states in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 49 |
| 540 | Search for resonances in diphoton events at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 49 |
| 539 | Search for electroweak production of supersymmetric particles in final states with two or three leptons at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 995   | 4.2 | 49 |
| 538 | Measurements of top-quark pair differential cross-sections in the lepton+jets channel in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 538  | 4.2 | 48 |
| 537 | Search for supersymmetry at [Formula: see text] TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 259   | 4.2 | 48 |
| 536 | Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 428   | 4.2 | 48 |
| 535 | Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb of ( $\sqrt{s} = 7$ ;TeV) proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 48 |
| 534 | Measurements of the S-wave fraction in $B^0 \rightarrow \pi^+ \pi^- \pi^0$ decays and the $B^0 \rightarrow \pi^+ \pi^- \pi^0$ differential branching fraction. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 48 |



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| 533 | Search for long-lived charginos based on a disappearing-track signature in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5-4 | 48 |
| 532 | Measurement of the prompt $W$ pair production cross-section in collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 76   | 4-2 | 47 |
| 531 | Search for heavy resonances decaying into in the final state in collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 24  | 4-2 | 47 |
| 530 | Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 47 |
| 529 | Measurement of forward $J/\psi$ production cross-sections in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 47 |
| 528 | Search for a new resonance decaying to a $W$ or $Z$ boson and a Higgs boson in the $WZ$ final states with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 263  | 4-2 | 46 |
| 527 | Light-quark and gluon jet discrimination in $W$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3023  | 4-2 | 46 |
| 526 | Measurement of the Absolute Branching Fraction for $B^0 \rightarrow \mu^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2015</b> , 115, 221805   | 7-4 | 46 |
| 525 | Search for lepton-flavour-violating $H \rightarrow \mu\tau$ decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 46 |
| 524 | Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with ( $\sqrt{s}=8$ ) TeV pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1            | 5-4 | 45 |
| 523 | Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5-4 | 45 |
| 522 | Measurement of ZZ production in pp collisions at ( $\sqrt{s}=7$ ) TeV and limits on anomalous ZZZ and ZZ couplings with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 45 |
| 521 | Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s}=7$ TeV in 2010. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3034   | 4-2 | 45 |
| 520 | Search for pair production of massive particles decaying into three quarks with the ATLAS detector in ( $\sqrt{s}=7$ ; $\text{TeV}$ ) pp collisions at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                             | 5-4 | 45 |
| 519 | Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=13$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 318 | 4-2 | 44 |
| 518 | Identification of boosted, hadronically decaying bosons and comparisons with ATLAS data taken at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 154  | 4-2 | 44 |
| 517 | Measurement of isolated-photon pair production in pp collisions at ( $\sqrt{s}=7$ ; $\text{TeV}$ ) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 44 |
| 516 | Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at ( $\sqrt{s} = 7$ $\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1                               | 4-2 | 44 |

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| 514 | Angular analysis of $B^0 \rightarrow D^{*\mp} \pi^{\pm}$ decays in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 44 |
| 513 | Performance of jet substructure techniques for large-R jets in proton-proton collisions at $(\sqrt{s}=7)$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 43 |
| 512 | 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> , <b>2012</b> , 2012, 1   | 5.4 | 43 |
| 511 | ATLAS b-jet identification performance and efficiency measurement with $(t\bar{t})$ events in pp collisions at $(\sqrt{s}=13)$ TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 43 |
| 510 | Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 466  | 4.2 | 42 |
| 509 | 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> , <b>2016</b> , 76, 283   | 4.2 | 42 |
| 508 | Measurement of CP asymmetry in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 42 |
| 507 | 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> , <b>2012</b> , 72, 2046  | 4.2 | 42 |
| 506 | Measurement of the exclusive $\bar{t}$ production cross-section in pp collisions at $(\sqrt{s}=7)$ TeV and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 42 |
| 505 | Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 interpreted in the phenomenological MSSM. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 42 |
| 504 | Measurement of the $[ \text{Formula: see text} ]$ production cross-section in proton-proton collisions via the decay $[ \text{Formula: see text} ]$ . <i>European Physical Journal C</i> , <b>2015</b> , 75, 311  | 4.2 | 41 |
| 503 | Search for heavy resonances in the $\bar{t}t$ and final states using proton-proton collisions at $\sqrt{s}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 293   | 4.2 | 41 |
| 502 | 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> , <b>2014</b> , 74, 2883 | 4.2 | 41 |
| 501 | Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1  | 4.2 | 41 |
| 500 | Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in $(\sqrt{s}=7\text{--}8\text{ TeV})$ proton-proton collisions with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 41 |
| 499 | Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 40 |
| 498 | Search for the Decays $B_{s^0} \rightarrow B^+ \pi^-$ and $B^0 \rightarrow B^+ \pi^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 251802  | 7.4 | 40 |

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| 497 | 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> , <b>2016</b> , 76, 199   | 4.2 | 39 |
| 496 | Search for supersymmetry at ( $\sqrt{s}$ ) = 8 TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 39 |
| 495 | 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> , <b>2012</b> , 2012, 1   | 5.4 | 39 |
| 494 | Search for charged Higgs bosons decaying into top and bottom quarks at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 39 |
| 493 | 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> , <b>2017</b> , 77, 241  | 4.2 | 38 |
| 492 | 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> , <b>2015</b> , 75, 229 | 4.2 | 38 |
| 491 | Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 38 |
| 490 | Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at ( $\sqrt{s}$ ) = 13 (text {TeV}). <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 37 |
| 489 | Measurement of the production of a W boson in association with a charm quark in pp collisions at ( $\sqrt{s}$ ) = 7 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 37 |
| 488 | Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 37 |
| 487 | 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> , <b>2012</b> , 2012, 1   | 5.4 | 37 |
| 486 | Limits on the production of the standard model Higgs boson in pp collisions at ( $\sqrt{s}$ ) = 7 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 37 |
| 485 | Search for massive colored scalars in four-jet final states in ( $\sqrt{s}$ ) = 7 TeV proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2 | 37 |
| 484 | Charged-particle distributions at low transverse momentum in [Formula: see text] TeV interactions measured with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2016</b> , 76, 502   | 4.2 | 37 |
| 483 | Measurement of the b-Quark Production Cross Section in 7 and 13 TeV pp Collisions. <i>Physical Review Letters</i> , <b>2017</b> , 118, 052002   | 7.4 | 36 |
| 482 | Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 36 |
| 481 | Search for direct pair production of the top squark in all-hadronic final states in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 36 |
| 480 | Search for massive long-lived particles decaying semileptonically in the LHCb detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 224  | 4.2 | 35 |

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| 479 | Measurement of $B_c^+$ Production in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2015</b> , 114, 132001  | 7-4 | 35 |
| 478 | Measurement of longitudinal flow decorrelations in Pb+Pb collisions at and 5.02 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 142  | 4-2 | 35 |
| 477 | Measurement of quarkonium production in proton-lead and proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 171  | 4-2 | 35 |
| 476 | Measurement of the charged-particle multiplicity inside jets from [Formula: see text][Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 322  | 4-2 | 35 |
| 475 | Measurement of jet fragmentation in Pb+Pb and collisions at TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2017</b> , 77, 379   | 4-2 | 35 |
| 474 | Observation of two new $(b)(-)$ baryon resonances. <i>Physical Review Letters</i> , <b>2015</b> , 114, 062004  | 7-4 | 35 |
| 473 | Search for second generation scalar leptoquarks in pp collisions at $(\sqrt{s}=7\sim\text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4-2 | 35 |
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| 471 | ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4-2 | 34 |
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| 469 | Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 565  | 4-2 | 34 |
| 468 | Study of the $D^0 p$ amplitude in $D^0 b \rightarrow D^0 p$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5-4 | 33 |
| 467 | Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. <i>European Physical Journal C</i> , <b>2017</b> , 77, 673  | 4-2 | 33 |
| 466 | Search for charged Higgs bosons in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at $(\sqrt{s}=8)$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5-4 | 33 |
| 465 | 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> , <b>2018</b> , 2018, 1                   | 5-4 | 33 |
| 464 | Search for charged Higgs bosons decaying via $H \rightarrow b\bar{b}$ in the $b$ jets and $b$ 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> , <b>2018</b> , 2018, 1 | 5-4 | 33 |
| 463 | Measurement of the top quark mass in the [Formula: see text] and [Formula: see text] channels using [Formula: see text][Formula: see text] ATLAS data. <i>European Physical Journal C</i> , <b>2015</b> , 75, 330  | 4-2 | 32 |
| 462 | Search for dark matter produced in association with bottom or top quarks in TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 18  | 4-2 | 32 |

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| 461 | 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> , <b>2019</b> , 2019, 1                                   | 5.4 | 3 <sup>1</sup> |
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| 458 | Measurement of the forward Z boson production cross-section in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 3 <sup>1</sup> |
| 457 | Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at ( $\sqrt{s}=7$ ) TeV in the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1                      | 5.4 | 3 <sup>1</sup> |
| 456 | Measurement of the production and lepton charge asymmetry of [Formula: see text] bosons in Pb+Pb collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 23   | 4.2 | 3 <sup>1</sup> |
| 455 | Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3134   | 4.2 | 3 <sup>1</sup> |
| 454 | Search for strong production of supersymmetric particles in final states with missing transverse momentum and at least three b-jets at ( $\sqrt{s} = 8$ ) TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1 | 5.4 | 3 <sup>1</sup> |
| 453 | A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at ( $\sqrt{s}=7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 3 <sup>1</sup> |
| 452 | Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in ( $\sqrt{s}=7$ TeV) proton-proton collisions. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 3 <sup>1</sup> |
| 451 | Inclusive search for same-sign dilepton signatures in pp collisions at ( $\sqrt{s} = 7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1  | 5.4 | 3 <sup>1</sup> |
| 450 | Measurements of b-jet tagging efficiency with the ATLAS detector using ( $\overline{t}$ ) events at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 3 <sup>1</sup> |
| 449 | Search for third generation scalar leptoquarks in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 3 <sup>0</sup> |
| 448 | Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 3 <sup>0</sup> |
| 447 | Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at ( $\sqrt{s}=8$ ) TeV with ATLAS. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 3 <sup>0</sup> |
| 446 | Precision measurement of the mass and lifetime of the ( $\Lambda$ ) <sub>b</sub> (0) baryon. <i>Physical Review Letters</i> , <b>2014</b> , 113, 032001   | 7.4 | 3 <sup>0</sup> |
| 445 | Measurement of the [Formula: see text] production cross section in the tau + jets channel using the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2328   | 4.2 | 3 <sup>0</sup> |
| 444 | Measurements of underlying-event properties using neutral and charged particles in pp collisions at ( $\sqrt{s}=900$ ) GeV and ( $\sqrt{s}=7$ ) TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1                              | 4.2 | 3 <sup>0</sup> |

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| 443 | Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 30 |
| 442 | Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 29 |
| 441 | Search for the direct production of charginos, neutralinos and staus in final states with at least two hadronically decaying taus and missing transverse momentum in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1 | 5.4 | 29 |
| 440 | Observation of the $D^0 \rightarrow \tau^+ \nu_\tau$ decay. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 29 |
| 439 | Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. <i>European Physical Journal C</i> , <b>2017</b> , 77, 332   | 4.2 | 29 |
| 438 | Search for pair production of heavy vector-like quarks decaying to high- $p_T$ W bosons and b quarks in the lepton-plus-jets final state in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                         | 5.4 | 29 |
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| 436 | Ground-state properties of interacting two-component Bose gases in a one-dimensional harmonic trap. <i>European Physical Journal D</i> , <b>2009</b> , 51, 261-266  | 1.3 | 29 |
| 435 | Measurement of the absolute branching fraction for $B^0 \rightarrow \mu^+ \mu^-$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 767, 42-47   | 4.2 | 28 |
| 434 | Measurement of the semileptonic CP asymmetry in $B^0 \rightarrow B^0$ mixing. <i>Physical Review Letters</i> , <b>2015</b> , 114, 041601  | 7.4 | 28 |
| 433 | Two-particle Bose-Einstein correlations in collisions at [Formula: see text] 0.9 and 7 TeV measured with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 466   | 4.2 | 28 |
| 432 | A search for pair-produced resonances in four-jet final states at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 250   | 4.2 | 28 |
| 431 | Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2016</b> , 76, 295  | 4.2 | 28 |
| 430 | Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 55  | 4.2 | 28 |
| 429 | Search for minimal supersymmetric standard model Higgs Bosons $H^\pm$ and for a [Formula: see text] boson in the [Formula: see text] final state produced in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 585            | 4.2 | 28 |
| 428 | Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 28 |
| 427 | Fiducial, total and differential cross-section measurements of $\gamma$ -channel single top-quark production in collisions at 8 TeV using data collected by the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 531  | 4.2 | 27 |
| 426 | Study of prompt $D^0$ meson production in pPb collisions at ( $\sqrt{s_{\text{N};\text{N}}}=5$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 27 |

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| 425 | Measurement of the inclusive jet cross-section in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV using 4.5 fb <sup>-1</sup> of data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 27 |
| 424 | Measurement of Proton Electromagnetic Form Factors in $e^+e^- \rightarrow \text{pp}$ in the Energy Region 2.00-3.08 GeV. <i>Physical Review Letters</i> , <b>2020</b> , 124, 042001   | 7.4 | 27 |
| 423 | Study of ( $\text{varUpsilon}$ ) production and cold nuclear matter effects in pPb collisions at ( $\sqrt{s_{NN}}$ ) = 5 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 27 |
| 422 | Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in ( $\sqrt{s}=13$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                     | 5.4 | 27 |
| 421 | Study of the rare decays of [Formula: see text] and [Formula: see text] into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 513  | 4.2 | 27 |
| 420 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 26 |
| 419 | Search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , <b>2015</b> , 75, 152   | 4.2 | 26 |
| 418 | Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb <sup>-1</sup> of ( $\sqrt{s}=13$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1 | 5.4 | 26 |
| 417 | Measurement of $\tau_1$ and $\tau_2$ production with ( $\sqrt{s}$ ) = 7 TeV pp collisions at ATLAS. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 26 |
| 416 | Measurements of the production cross section of a [Formula: see text] boson in association with jets in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 361                                       | 4.2 | 26 |
| 415 | Precision measurement of the mass and lifetime of the $\Lambda_b^0$ baryon. <i>Physical Review Letters</i> , <b>2014</b> , 113, 242002  | 7.4 | 26 |
| 414 | Measurement of differential production cross-sections for a Z boson in association with b-jets in 7 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 26 |
| 413 | Test of CP invariance in vector-boson fusion production of the Higgs boson using the method in the ditau decay channel with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 658  | 4.2 | 26 |
| 412 | Measurement of the phase difference between short- and long-distance amplitudes in the [Formula: see text] decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 161  | 4.2 | 25 |
| 411 | Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P03017-P03017  | 1   | 25 |
| 410 | Measurement of the Difference of Time-Integrated CP Asymmetries in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 116, 191601   | 7.4 | 25 |
| 409 | Multi-channel search for squarks and gluinos in [Formula: see text] collisions with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2362  | 4.2 | 25 |
| 408 | Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                   | 5.4 | 25 |

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| 407 | Measurement of the $J/\psi$ pair production cross-section in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5-4 | 25 |
| 406 | Search for $[B_s]$ decays in $[B_s]$ collisions at $[B_s]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 165  | 4-2 | 25 |
| 405 | Search for bottom squark pair production in proton-proton collisions at $[B_s]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 547   | 4-2 | 25 |
| 404 | Production of associated $\Upsilon$ and open charm hadrons in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV via double parton scattering. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                                 | 5-4 | 25 |
| 403 | Measurement of the inclusive isolated prompt photon cross section in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                                     | 5-4 | 25 |
| 402 | Measurement of the top quark mass in the $(t\bar{t} \rightarrow \text{lepton+jets})$ channel from ( $\sqrt{s}=8$ ) TeV ATLAS data and combination with previous results. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1     | 4-2 | 24 |
| 401 | Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                              | 5-4 | 24 |
| 400 | Measurement of the top quark pair production charge asymmetry in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                             | 5-4 | 24 |
| 399 | Measurement of the production cross section of prompt $J/\psi$ mesons in association with a $W$ boson in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1 | 5-4 | 24 |
| 398 | Measurement of the differential cross-section of $B^+$ meson production in pp collisions at ( $\sqrt{s}=7$ ) TeV at ATLAS. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 24 |
| 397 | First observation of a baryonic $B_c^+$ decay. <i>Physical Review Letters</i> , <b>2014</b> , 113, 152003   | 7-4 | 24 |
| 396 | Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1              | 4-2 | 24 |
| 395 | Quantum dynamics of repulsively bound atom pairs in the Bose-Hubbard model. <i>European Physical Journal D</i> , <b>2008</b> , 48, 229-234  | 1-3 | 24 |
| 394 | Search for single production of vector-like quarks decaying into in collisions at $[B_s]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 442   | 4-2 | 24 |
| 393 | Search for the direct production of charginos and neutralinos in final states with tau leptons in collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 154                                      | 4-2 | 23 |
| 392 | Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                    | 5-4 | 23 |
| 391 | Updated search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , <b>2017</b> , 77, 812   | 4-2 | 23 |
| 390 | Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 23 |



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| 389 | Measurement of the CKM angle $\Gamma$ from a combination of LHCb results. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 23 |
| 388 | Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb of collisions at $\sqrt{s}$ TeV with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 401    | 4.2 | 23 |
| 387 | Search for Higgs boson pair production in the $(\gamma\gamma b\bar{b})$ final state with 13 TeV pp collision data collected by the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                    | 5.4 | 23 |
| 386 | Prompt and non-prompt and suppression at high transverse momentum in Pb+Pb collisions with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 762   | 4.2 | 23 |
| 385 | A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 26   | 4.2 | 22 |
| 384 | Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1 | 5.4 | 22 |
| 383 | Search for the lepton flavour violating decay $\mu \rightarrow e \gamma$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 22 |
| 382 | Search for heavy long-lived multi-charged particles in collisions at $\sqrt{s}$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 362  | 4.2 | 22 |
| 381 | Search for W W/W Z resonance production in $b\bar{q}q$ final states in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                                    | 5.4 | 22 |
| 380 | Search for Violations of Lorentz Invariance and CPT Symmetry in $B_{(s)}$ Mixing. <i>Physical Review Letters</i> , <b>2016</b> , 116, 241601  | 7.4 | 22 |
| 379 | A search for prompt lepton-jets in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 22 |
| 378 | Observation of the Decays $B^0 \rightarrow c1 pK^-$ and $B^0 \rightarrow c2 pK^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 062001  | 7.4 | 22 |
| 377 | Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb of $(\sqrt{s}=13)$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1     | 5.4 | 22 |
| 376 | Measurement of CP Violation in $B^0 \rightarrow S^0$ Decays. <i>Physical Review Letters</i> , <b>2015</b> , 115, 031601   | 7.4 | 22 |
| 375 | A search for high-mass resonances decaying to $\mu\mu$ in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 22 |
| 374 | Measurement of the forward-backward asymmetry in $Z/\gamma \rightarrow \mu\mu$ decays and determination of the effective weak mixing angle. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1                             | 5.4 | 22 |
| 373 | Search for heavy lepton resonances decaying to a Z boson and a lepton in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1                                   | 5.4 | 22 |
| 372 | Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                           | 5.4 | 22 |

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| 371 | Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 21 |
| 370 | Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 79                                 | 4.2 | 21 |
| 369 | Measurements of fiducial cross-sections for [Formula: see text] production with one or two additional $\gamma$ -jets in collisions at [Formula: see text]=8 TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 11 | 4.2 | 21 |
| 368 | Forward production of $\Lambda$ mesons in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 21 |
| 367 | Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3195    | 4.2 | 21 |
| 366 | Study of hard double-parton scattering in four-jet events in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 21 |
| 365 | Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1                                | 5.4 | 21 |
| 364 | Search for Higgs boson pair production in the channel using collision data recorded at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1007   | 4.2 | 21 |
| 363 | Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 21 |
| 362 | Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s}=5.02$ TeV Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 997   | 4.2 | 21 |
| 361 | Search for doubly charged scalar bosons decaying into same-sign boson pairs with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 58  | 4.2 | 20 |
| 360 | Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                              | 5.4 | 20 |
| 359 | Searches for heavy diboson resonances in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 20 |
| 358 | Measurement of ( $W^{\pm}Z$ ) production cross sections and gauge boson polarisation in pp collisions at ( $\sqrt{s}=13$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1                                     | 4.2 | 20 |
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| 356 | Searches for the $Z\gamma$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                          | 5.4 | 20 |
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| 354 | Search for new resonances in mass distributions of jet pairs using 139 fb $^{-1}$ of pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1                                  | 5.4 | 20 |

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| 353 | Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at [Formula: see text] = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 565                      | 4.2 | 20 |
| 352 | Measurement of the boson polarisation in [Formula: see text] events from collisions at [Formula: see text] = 8 TeV in the lepton+jet channel with ATLAS. <i>European Physical Journal C</i> , <b>2017</b> , 77, 264                 | 4.2 | 19 |
| 351 | Performance of top-quark and (varvec{W})-boson tagging with ATLAS in Run 2 of the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 19 |
| 350 | Determination of the Pseudoscalar Decay Constant $f_{D_{s}^{+}}$ via $D_{s}^{+} \rightarrow B^{+} \pi^0$ . <i>Physical Review Letters</i> , <b>2019</b> , 122, 071802   | 7.4 | 19 |
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| 347 | Search for direct top squark pair production in final states with two leptons in TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 898   | 4.2 | 19 |
| 346 | Determination of the strong coupling constant from transverse energy-energy correlations in multijet events at using the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 872                                 | 4.2 | 19 |
| 345 | Measurement of the CKM angle $\arg(B_{\mu} \rightarrow DK)$ with $D \rightarrow K^0 S^{\pm} \pi^{\mp} K^0 S^{\pm} K^{\pm} K^{\mp}$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                            | 5.4 | 19 |
| 344 | Search for a light exotic particle in J/radiative decays. <i>Physical Review D</i> , <b>2012</b> , 85,  | 4.9 | 19 |
| 343 | Charged-particle distributions in interactions at [Formula: see text] measured with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 403  | 4.2 | 19 |
| 342 | Observation of the Annihilation Decay Mode $B^{0} \rightarrow K^{+} K^{-}$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 081801   | 7.4 | 18 |
| 341 | Measurement of three-jet production cross-sections in [Formula: see text] collisions at 7 [Formula: see text] centre-of-mass energy using the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 228            | 4.2 | 18 |
| 340 | Measurement of the CP Asymmetry in $B_{s}^{0} \rightarrow B_{s}^{0}$ Mixing. <i>Physical Review Letters</i> , <b>2016</b> , 117, 061803   | 7.4 | 18 |
| 339 | Search for long-lived neutral particles in pp collisions at ( $\sqrt{s}$ ) = 13 TeV that decay into displaced hadronic jets in the ATLAS calorimeter. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1                      | 4.2 | 18 |
| 338 | Searches for third-generation scalar leptoquarks in ( $\sqrt{s}$ ) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 18 |
| 337 | Measurement of the underlying event in jet events from 7 (TeV) proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1   | 4.2 | 18 |
| 336 | Measurement of the centrality and pseudorapidity dependence of the integrated elliptic flow in lead-lead collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2982 | 4.2 | 18 |

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| 335 | Measurement of the low-mass Drell-Yan differential cross section at $(\sqrt{s}) = 7$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 18 |
| 334 | Measurement of jet shapes in top-quark pair events at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2676   | 4.2 | 18 |
| 333 | Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at $(\sqrt{s}=7)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 18 |
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| 331 | Search for metastable heavy charged particles with large ionisation energy loss in collisions at [Formula: see text] TeV using the ATLAS experiment. <i>European Physical Journal C</i> , <b>2015</b> , 75, 407   | 4.2 | 18 |
| 330 | Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at $(\sqrt{\mathbf{s}}=7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 18 |
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| 328 | Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in collision data at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 87  | 4.2 | 18 |
| 327 | Searches for heavy ZZ and ZW resonances in the $\bar{t}q$ and $t\bar{q}$ final states in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 17 |
| 326 | Measurement of dijet cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 17 |
| 325 | Measurement of polarization in $\tau$ -decays with the ATLAS detector in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2062   | 4.2 | 17 |
| 324 | Measurement of forward Z $\rightarrow e\bar{e}$ production at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 17 |
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| 321 | Measurement of the $\Upsilon(3P)$ mass and of the relative rate of $\Upsilon(1P)$ and $\Upsilon(2P)$ production. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 17 |
| 320 | Search for a scalar partner of the top quark in the all-hadronic $(t\bar{t})$ plus missing transverse momentum final state at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 17 |
| 319 | Observations of $\Upsilon \rightarrow b\bar{b} + \Upsilon$ and $\Upsilon \rightarrow b\bar{b} + K \Upsilon$ decays and searches for other $\Upsilon \rightarrow b\bar{b}$ and $\Upsilon \rightarrow b\bar{b} + h$ final states. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1 | 5.4 | 17 |
| 318 | Search for supersymmetry in a final state containing two photons and missing transverse momentum in [Formula: see text] $\sqrt{s}=3$ TeV [Formula: see text] collisions at the LHC using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 517                       | 4.2 | 17 |

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| 317 | Measurement of the Branching Fraction For the Semileptonic Decay $D^{*0(+)} \rightarrow \ell^+ \pi^0 \ell^+ \pi^0$ and Test of Lepton Flavor Universality. <i>Physical Review Letters</i> , <b>2018</b> , 121, 171803   | 7.4 | 17 |
| 316 | First Experimental Study of Photon Polarization in Radiative $B_{s^0}$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 021801   | 7.4 | 16 |
| 315 | In situ calibration of large-radius jet energy and mass in 13 TeV proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 16 |
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| 237 | Measurement of the W W + W Z cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at ( $\sqrt{s}$ )=7 TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1 | 5.4 | 12 |
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| 201 | Search for lepton flavour violation in the continuum with the ATLAS detector in [Formula: see text] collisions at the LHC. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2040  | 4.2 | 10 |
| 200 | Measurement of $B_{s^0}$ and $D_{s^*}$ Meson Lifetimes. <i>Physical Review Letters</i> , <b>2017</b> , 119, 101801  | 7.4 | 10 |
| 199 | Observation of the suppressed decay $B^0 \rightarrow \rho^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 10 |
| 198 | Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 765 | 4.2 | 10 |
| 197 | First Observation of a Baryonic $B_{s^0}$ Decay. <i>Physical Review Letters</i> , <b>2017</b> , 119, 041802   | 7.4 | 10 |
| 196 | Search for the decay $(B_{s^0} \rightarrow \overline{D}^0 f_0(980))$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 10 |
| 195 | Measurement of the $B_{s^0}$ meson lifetime in $Ds^+ \rightarrow B_{s^0} \mu^+$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 113, 172001  | 7.4 | 10 |
| 194 | Measurement of CP asymmetry in $B^0_s \rightarrow D^+ K^-$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 10 |
| 193 | Measurement of inclusive two-particle angular correlations in $pp$ collisions with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 10 |
| 192 | Search for $\Lambda$ and $\Sigma$ invisible decays in $J/\psi$ and $\psi'$ . <i>Physical Review D</i> , <b>2013</b> , 87,   | 4.9 | 10 |

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| 191 | Measurement of the ZZ production cross section in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV using the ZZ $\rightarrow \mu\mu$ and ( $ZZ \rightarrow \ell\ell \gamma \ell\ell$ ) decay channels with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1      | 5.4 | 9 |
| 190 | Measurement of charged-particle distributions sensitive to the underlying event in ( $\sqrt{s}=13$ ) TeV proton-proton collisions with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 9 |
| 189 | Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb <sup>-1</sup> of ( $\sqrt{s}$ ) = 8 TeV proton-proton collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                 | 5.4 | 9 |
| 188 | Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 9 |
| 187 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $4\ell$ decay channel at ( $\sqrt{s}$ ) = 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 9 |
| 186 | Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 9 |
| 185 | Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 8 |
| 184 | Measurement of VH, ( $\text{H} \rightarrow \text{b}\overline{\text{b}}$ ) production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 8 |
| 183 | Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in ( $\sqrt{s}$ ) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 8 |
| 182 | Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb <sup>-1</sup> of data collected with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 8 |
| 181 | Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P05013-P05013  | 1   | 8 |
| 180 | Search for scalar resonances decaying into $\mu\mu$ events with and without b-tagged jets produced in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 8 |
| 179 | Measurement of splitting scales in $\rightarrow$ events at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2432   | 4.2 | 8 |
| 178 | Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [Formula: see text][Formula: see text][Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 144 | 4.2 | 8 |
| 177 | Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 8 |
| 176 | Measurement of the $B \rightarrow s \gamma$ branching fraction and search for the decay $B \rightarrow \mu\mu$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 8 |
| 175 | Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 158  | 4.2 | 8 |
| 174 | Search for long-lived heavy charged particles using a ring imaging Cherenkov technique at LHCb. <i>European Physical Journal C</i> , <b>2015</b> , 75, 595  | 4.2 | 8 |

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| 173 | Search for CP violation in $D^0 \rightarrow K^0 K^0$ and $D^0 \rightarrow K^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 8 |
| 172 | Evidence for $(t\bar{t})$ production in the multilepton final state in proton-proton collisions at $(\sqrt{s}=13)$ (text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 8 |
| 171 | Search for light long-lived neutral particles produced in pp collisions at $(\sqrt{s} = 13\text{-}\mathrm{TeV})$ and decaying into collimated leptons or light hadrons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 8 |
| 170 | Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 8 |
| 169 | Measurements of top-quark pair spin correlations in the $(\mu\mu)$ channel at $(\sqrt{s} = 13)$ TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 8 |
| 168 | Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 8 |
| 167 | Search for heavy resonances decaying into a pair of Z bosons in the $(\ell\ell^+\ell\ell^-)$ and $(\ell\ell^+\ell\ell^-\nu\bar{\nu})$ final states using 139 (mathrm {fb}^{-1}) of proton-proton collisions at $(\sqrt{s} = 13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1 | 4.2 | 8 |
| 166 | Search for charged Higgs bosons decaying into a top quark and a bottom quark at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 8 |
| 165 | Measurement of forward W and Z boson production in association with jets in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 8 |
| 164 | Measurement of forward W and Z production in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 8 |
| 163 | Observation of the Leptonic Decay $D^0 \rightarrow \mu^+ \mu^- \pi^0$ . <i>Physical Review Letters</i> , <b>2019</b> , 123, 211802   | 7.4 | 8 |
| 162 | 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> , <b>2021</b> , 2021, 1  | 5.4 | 8 |
| 161 | Prompt and non-prompt elliptic flow in Pb+Pb collisions at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 784   | 4.2 | 8 |
| 160 | Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 8 |
| 159 | Observation of the Decay $B^0 \rightarrow \rho^0 K^0$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 071801   | 7.4 | 7 |
| 158 | Improved limit on the branching fraction of the rare decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 678   | 4.2 | 7 |
| 157 | Measurements of inclusive and differential fiducial cross-sections of $(t\bar{t})$ production in leptonic final states at $(\sqrt{s}=13\text{-}\mathrm{TeV})$ in ATLAS. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 7 |
| 156 | Measurement of the Z+b-jet cross-section in pp collisions at $(\sqrt{s}) = 7$ TeV in the forward region. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 7 |

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| 155 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $(\sqrt{s}) = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1          | 5-4 | 7 |
| 154 | First Observation of $D^{*+} \rightarrow \pi^+ \pi^0$ and Measurement of Its Decay Dynamics. <i>Physical Review Letters</i> , <b>2020</b> , 124, 231801   | 7-4 | 7 |
| 153 | Transverse momentum and process dependent azimuthal anisotropies in $(\sqrt{s_{\text{NN}}}) = 8.16$ TeV p+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4-2 | 7 |
| 152 | Search for new phenomena in high-mass final states with a photon and a jet from collisions at $= 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 102  | 4-2 | 7 |
| 151 | Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at [Formula: see text] TeV recorded with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 683 | 4-2 | 7 |
| 150 | Study of $D^{*+} \rightarrow \pi^+ \pi^0$ mesons decaying to $D^{*+} \rightarrow K^0 \pi^+$ and $D^{*0} \rightarrow K^+ \pi^0$ final states. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5-4 | 7 |
| 149 | Observation of the $B^0 \rightarrow \pi^+ \pi^-$ decay. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5-4 | 7 |
| 148 | Measurement of differential cross sections and $W^+/W^-$ cross-section ratios for W boson production in association with jets at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                              | 5-4 | 7 |
| 147 | Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5-4 | 7 |
| 146 | Measurement of the $(\overline{t} \gamma)$ production cross section in proton-proton collisions at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5-4 | 7 |
| 145 | Measurements of top-quark pair to Z-boson cross-section ratios at $(\sqrt{s}) = 13, 8, 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5-4 | 7 |
| 144 | Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in $(\sqrt{s}) = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                             | 5-4 | 7 |
| 143 | Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $(\sqrt{s}) = 13$ TeV proton-proton collision data. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 7 |
| 142 | Studies of $Z \gamma$ production in association with a high-mass dijet system in pp collisions at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 7 |
| 141 | Search for decays of neutral beauty mesons into four muons. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 7 |
| 140 | Analysis of the $Wtb$ vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the t-channel at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                | 5-4 | 7 |
| 139 | Observation of the $B(s) \rightarrow \mu^+ \mu^-$ Decay. <i>Physical Review Letters</i> , <b>2015</b> , 115, 051801   | 7-4 | 7 |
| 138 | First observations of the rare decays $B^+ \rightarrow \mu^+ \pi^0 \pi^+$ and $B^+ \rightarrow \mu^+ K^+ \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5-4 | 7 |



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| 119 | Search for new phenomena in final states with b-jets and missing transverse momentum in ( $\sqrt{s}$ ) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 6 |
| 118 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a lepton in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                           | 5.4 | 6 |
| 117 | A precise measurement of the [Formula: see text] meson oscillation frequency. <i>European Physical Journal C</i> , <b>2016</b> , 76, 412  | 4.2 | 6 |
| 116 | Measurement of CP Violation in $B^0 \rightarrow D^+ D^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 261801   | 7.4 | 6 |
| 115 | Model-independent measurement of the CKM angle $\beta$ using $B^0 \rightarrow D K^0$ decays with $D \rightarrow K^0 \pi^+ \pi^-$ and $K^0 \rightarrow K^+ K^-$ . <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 6 |
| 114 | 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> , <b>2018</b> , 2018, 1 | 5.4 | 6 |
| 113 | Search for exclusive Higgs and Z boson decays to $\tau^+ \tau^-$ and $\mu^+ \mu^-$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 6 |
| 112 | Measurement of jet activity produced in top-quark events with an electron, a muon and two -tagged jets in the final state in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 220                | 4.2 | 5 |
| 111 | Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at ( $\sqrt{s}$ ) = 13 and 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 5 |
| 110 | Measurement of differential cross-sections of a single top quark produced in association with a boson at with ATLAS. <i>European Physical Journal C</i> , <b>2018</b> , 78, 186   | 4.2 | 5 |
| 109 | Observation of $B_{s1}^0 \rightarrow D^+ K_{S1}^-$ and Evidence for $B_{s1}^0 \rightarrow D^+ K_{S1}^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 116, 161802  | 7.4 | 5 |
| 108 | Observation of the $B^0 \rightarrow \mu^+ \mu^-$ decay. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 5 |
| 107 | Study of ( $\overline{b}b$ ) correlations in high energy proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 5 |
| 106 | Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 5 |
| 105 | Measurement of four-jet differential cross sections in ( $\sqrt{s}$ ) = 8 TeV proton-proton collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-76   | 5.4 | 5 |
| 104 | Determination of the branching fractions of $B^0 \rightarrow D^+ K^-$ and $B^0 \rightarrow D^+ K^+$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 5 |
| 103 | Analytical solutions for two heteronuclear atoms in a ring trap. <i>European Physical Journal D</i> , <b>2011</b> , 64, 459-464   | 1.3 | 5 |
| 102 | Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1                                   | 5.4 | 5 |



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| 101 | 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> , <b>2020</b> , 2020, 1                          | 5-4 | 5 |
| 100 | Observation of the associated production of a top quark and a Z boson in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5-4 | 5 |
| 99  | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5-4 | 5 |
| 98  | Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1         | 4-2 | 5 |
| 97  | Measurement of event-shape observables in [Formula: see text] events in collisions at [Formula: see text] with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2016</b> , 76, 375   | 4-2 | 5 |
| 96  | Measurement of the ratio of branching fractions $(\text{BR}(\overline{B} \rightarrow \overline{c}l^+ \nu_l) / \text{BR}(\overline{B} \rightarrow \overline{u}l^+ \nu_l))$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1 | 5-4 | 5 |
| 95  | Measurement of the relative width difference of the $(\overline{B}^0 \text{--} B^0)$ system with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 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> , <b>2021</b> , 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> , <b>2021</b> , 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> , <b>2018</b> , 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> , <b>2018</b> , 78, 487  | 4-2 | 5 |
| 90  | Observation of [Formula: see text] and [Formula: see text] decays. <i>European Physical Journal C</i> , <b>2017</b> , 77, 72   | 4-2 | 4 |
| 89  | Measurement of jet activity in top quark events using the $e^+e^-$ 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> , <b>2016</b> , 2016, 1                              | 5-4 | 4 |
| 88  | New algorithms for identifying the flavour of [Formula: see text] mesons using pions and protons. <i>European Physical Journal C</i> , <b>2017</b> , 77, 238   | 4-2 | 4 |
| 87  | Evidence for the two-body charmless baryonic decay $(\overline{B}^0 \rightarrow \overline{\Lambda}^0)$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 4 |
| 86  | First Observation of the Rare Purely Baryonic Decay $B^0 \rightarrow p\overline{p}$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 232001   | 7-4 | 4 |
| 85  | First observation and measurement of the branching fraction for the decay $B^0 \rightarrow D^+ s^- K^0$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 4 |
| 84  | Search for the lepton flavor violation process $J/\psi \rightarrow \tau^+ \tau^-$ at BESIII. <i>Physical Review D</i> , <b>2013</b> , 87,  | 4-9 | 4 |

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| 83 | Search for heavy diboson resonances in semileptonic final states in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 4 |
| 82 | Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 4 |
| 81 | Measurement of $J/\psi$ production in association with a $W$ boson with pp data at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 4 |
| 80 | Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1         | 4.2 | 4 |
| 79 | Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at ( $\sqrt{s}=13$ ) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1 | 5.4 | 4 |
| 78 | Search for dark matter produced in association with a single top quark in ( $\sqrt{s}=13$ ) TeV (pp) collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1                                   | 4.2 | 4 |
| 77 | Search for dijet resonances in events with an isolated charged lepton using ( $\sqrt{s}$ ) = 13 TeV proton-proton collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1     | 5.4 | 3 |
| 76 | Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at ( $\sqrt{s}=8$ ) and 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 3 |
| 75 | First observation of the decay $B^0 \rightarrow K^* \mu^+ \mu^-$ at LHCb. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 3 |
| 74 | Measurement of polarisation in decays in proton-proton collisions at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 163  | 4.2 | 3 |
| 73 | Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} \sim 13$ TeV with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79,                                     | 4.2 | 3 |
| 72 | Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 3 |
| 71 | Measurement of the $k_T$ splitting scales in Z events in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 3 |
| 70 | Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector <b>2015</b> , 75, 1   |     | 3 |
| 69 | ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider <b>2015</b> , 75, 1  |     | 3 |
| 68 | Measurement of the Absolute Branching Fraction of $D_{s1}^+ \rightarrow \pi^+ \pi^0$ via $\pi^+ e^+ e^-$ <i>Physical Review Letters</i> , <b>2021</b> , 127, 171801   | 7.4 | 3 |
| 67 | Measurement of $K_S^0$ and $\Lambda^0$ production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1                            | 4.2 | 3 |
| 66 | Determination of jet calibration and energy resolution in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1                                       | 4.2 | 3 |

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| 65 | Measurement of the inclusive jet cross-section in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV using 4.5 fb <sup>-1</sup> of data with the ATLAS detector <b>2015</b> , 2015, 1  |     | 3 |
| 64 | Reconstruction and identification of boosted di- $\tau$ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5-4 | 3 |
| 63 | Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at ( $\sqrt{\text{mathrm{s}}}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1 | 5-4 | 3 |
| 62 | Measurement of hadronic event shapes in high- $p_T$ multijet final states at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5-4 | 3 |
| 61 | Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4-2 | 2 |
| 60 | Measurement of the Z( $\rightarrow\tau\tau$ ) production cross-section in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5-4 | 2 |
| 59 | Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B \rightarrow \tau/\mu/\nu\tau$ and $B \rightarrow \tau/\mu/\nu\mu$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5-4 | 2 |
| 58 | Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5-4 | 2 |
| 57 | Correlation properties of anisotropic XY model with a sudden quench. <i>European Physical Journal B</i> , <b>2011</b> , 79, 503-507  | 1-2 | 2 |
| 56 | Phase separation in the trapped spinor gases with anisotropic spin-spin interaction. <i>European Physical Journal D</i> , <b>2007</b> , 44, 541-545  | 1-3 | 2 |
| 55 | Measurement of the ( $\overline{t}$ ) production cross-section using ( $\mu$ ) events with ( $b$ )-tagged jets in (pp) collisions at ( $\sqrt{s}=7$ ) and 8 TeV with the ATLAS detector <b>2014</b> , 74, 1  |     | 2 |
| 54 | 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 <b>2015</b> , 75, 1  |     | 2 |
| 53 | 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> , <b>2021</b> , 81, 1                                | 4-2 | 2 |
| 52 | Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                           | 5-4 | 2 |
| 51 | Measurements of prompt charm production cross-sections in pp collisions at ( $\sqrt{s}=13$ ) TeV <b>2016</b> , 2016, 1   |     | 2 |
| 50 | Measurement of the inclusive isolated-photon cross section in pp collisions at ( $\sqrt{s}$ ) = 13 TeV using 36 fb <sup>-1</sup> of ATLAS data. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5-4 | 2 |
| 49 | Measurements of the S-wave fraction in $B^0 \rightarrow \mu^+ \mu^- \tau^+ \tau^-$ decays and the $B^0 \rightarrow \mu^+ \mu^- (892)^0 \tau^+ \tau^-$ differential branching fraction <b>2016</b> , 2016, 1  |     | 2 |
| 48 | Measurements of inclusive and differential cross-sections of combined ( $\overline{t}$ ) $\gamma$ and $t\overline{W}$ production in the $e\tau$ channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1                   | 5-4 | 2 |

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| 47 | Measurement of isolated-photon plus two-jet production in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 2 |
| 46 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 2 |
| 45 | Search for supersymmetry in events with four or more charged leptons in 139 fb <sup>-1</sup> of $(\sqrt{s}) = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                  | 5.4 | 2 |
| 44 | 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> , <b>2019</b> , 2019, 1  | 5.4 | 2 |
| 43 | Measurement of $(W^{\pm})$ -boson and Z-boson production cross-sections in pp collisions at $(\sqrt{s}=2.76)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 2 |
| 42 | Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $(\sqrt{s}) = 13$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1 | 5.4 | 2 |
| 41 | Radiation Damage Effects and Operation of the LHCb Vertex Locator. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 1127-1132  | 1.7 | 1 |
| 40 | 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> , <b>2016</b> , 18, 073021   | 2.9 | 1 |
| 39 | Search for the $B_s \rightarrow \mu^+ \mu^-$ decay. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 1 |
| 38 | Search for Baryon-Number Violating $[b]^0$ Oscillations. <i>Physical Review Letters</i> , <b>2017</b> , 119, 181807   | 7.4 | 1 |
| 37 | Fermi super-Tonks-Girardeau state for attractive Fermi gases in an optical lattice. <i>European Physical Journal D</i> , <b>2012</b> , 66, 1  | 1.3 | 1 |
| 36 | Band effects on the conductivity for a two-band Hubbard model. <i>European Physical Journal B</i> , <b>2008</b> , 66, 477-481   | 1.2 | 1 |
| 35 | Search for production of $(WW/WZ)$ resonances decaying to a lepton, neutrino and jets in (pp) collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector <b>2015</b> , 75, 1  |     | 1 |
| 34 | Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $(\sqrt{s}=8, \text{TeV})$ with the ATLAS detector <b>2016</b> , 76, 1   |     | 1 |
| 33 | Measurement of the W-boson mass in pp collisions at $(\sqrt{s}=7, \text{TeV})$ with the ATLAS detector <b>2018</b> , 78, 1  |     | 1 |
| 32 | Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $(\sqrt{s}=13, \text{TeV})$ <b>2018</b> , 78, 1   |     | 1 |
| 31 | Search for top squarks in events with a Higgs or Z boson using 139 fb <sup>-1</sup> of pp collision data at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1                           | 4.2 | 1 |
| 30 | Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb <sup>-1</sup> of $(\sqrt{s}=13)$ TeV pp collisions with the ATLAS detector <b>2018</b> , 2018, 1                |     | 1 |

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| 29 | Measurement of differential cross sections for single diffractive dissociation in $(\sqrt{s}) = 8$ TeV pp collisions using the ATLAS ALFA spectrometer. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4  | 1 |
| 28 | Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1                                    | 5.4  | 1 |
| 27 | Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4  | 1 |
| 26 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W$ and $Z$ boson production in association with jets. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4  | 1 |
| 25 | A search for the decays of stopped long-lived particles at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4  | 1 |
| 24 | Measurement of single top-quark production in association with a $W$ boson in the single-lepton channel at $(\sqrt{s} = 8, \text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1  | 4.2  | 1 |
| 23 | Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a $Z$ boson at $(\sqrt{s} = 13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1  | 4.2  | 1 |
| 22 | Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2  | 1 |
| 21 | Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2  | 1 |
| 20 | Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2  | 1 |
| 19 | Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and $13$ TeV. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1   | 4.2  | 1 |
| 18 | Performance of the ATLAS Level-1 topological trigger in Run 2. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1  | 4.2  | 0 |
| 17 | Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1   | 5.4  | 0 |
| 16 | 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 $13 \leq \sqrt{s} \leq 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1 | 4.2  | 0 |
| 15 | Measurement of the $t\bar{t}$ production cross section in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4  | 0 |
| 14 | New physics searches at the BESIII experiment.. <i>National Science Review</i> , <b>2021</b> , 8, nwab189  | 10.8 | 0 |
| 13 | Measurements of $W+W$ jet production cross-sections in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4  | 0 |
| 12 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $(\sqrt{s}=13, \text{TeV})$ . <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2  | 0 |

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| 11 | Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | ○ |
| 10 | Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at ( $\sqrt{s}$ )=13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1                                     | 4.2 | ○ |
| 9  | Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb <sup>-1</sup> of pp collision data at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1 | 5.4 | ○ |
| 8  | AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , <b>2022</b> , 6, 1   | 6   | ○ |
| 7  | Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \tau^{\pm} \rightarrow \pi^{\pm} \nu_{\tau} \nu_{\tau}$ events in Run2 data. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1                  | 4.2 | ○ |
| 6  | Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                                   | 5.4 | ○ |
| 5  | Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | ○ |
| 4  | Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                             | 5.4 | ○ |
| 3  | Measurement of b-quark fragmentation properties in jets using the decay $B^{\pm} \rightarrow J/\psi B^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                   | 5.4 | ○ |
| 2  | Phase diagram of frustrated mixed-spin ladders in the strong-coupling limit. <i>European Physical Journal B</i> , <b>2007</b> , 57, 265-270   | 1.2 |   |
| 1  | The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1  | 4.2 |   |