

# Ammara Ahmad

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1743196/publications.pdf>

Version: 2024-02-01

600  
papers

25,165  
citations

11608

70  
h-index

13727

129  
g-index

623  
all docs

623  
docs citations

623  
times ranked

10007  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.   | 0.5 | 1,752     |
| 2  | The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.  | 1.4 | 1,187     |
| 3  | Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 $\sqrt{s}$ TeV. European Physical Journal C, 2015, 75, 212. | 1.4 | 541       |
| 4  | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.   | 1.4 | 499       |
| 5  | Improved luminosity determination in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 2518.  | 1.4 | 362       |
| 6  | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2019, 79, 421.   | 1.4 | 355       |
| 7  | Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.  | 1.4 | 342       |
| 8  | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 235.   | 1.4 | 320       |
| 9  | Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 17.   | 1.4 | 268       |
| 10 | Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.  | 1.4 | 259       |
| 11 | Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. European Physical Journal C, 2012, 72, 1.  | 1.4 | 248       |
| 12 | Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at $8 \text{ TeV}$ . European Physical Journal C, 2014, 74, 3036.                       | 1.4 | 241       |

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| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 220-241. | 1.5 | 195       |
| 20 | Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 542.  | 1.4 | 191       |
| 21 | Luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.   | 1.4 | 179       |
| 22 | Search for heavy neutrinos and $W$ bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3149.  | 1.4 | 179       |
| 23 | 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. Journal of High Energy Physics, 2013, 2013, 1.   | 1.6 | 175       |
| 24 | Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. European Physical Journal C, 2014, 74, 2980.  | 1.4 | 171       |
| 25 | Measurement of the top quark-pair production cross section with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.  | 1.4 | 146       |
| 26 | Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.                                | 1.6 | 145       |
| 27 | Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.  | 1.6 | 137       |
| 28 | Search for Invisible Decays of a Higgs Boson Produced in Association with a $Z$ Boson in ATLAS. Physical Review Letters, 2014, 112, .  | 2.9 | 130       |
| 29 | Search for Dark Matter in Events with a Hadronically Decaying $Z$ Boson and Missing Transverse Momentum in pp Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector. Physical Review Letters, 2014, 112, 041802.  | 2.9 | 129       |
| 30 | Search for charged Higgs bosons decaying via $H \rightarrow t\bar{t}$ in $t\bar{t}$ events using pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.   | 1.6 | 126       |
| 31 | Evidence for the 125 GeV Higgs boson decaying to a pair of $\tau$ , leptons. Journal of High Energy Physics, 2014, 2014, 1.  | 1.6 | 123       |
| 32 | Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.   | 1.4 | 123       |
| 33 | Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physical Review D, 2011, 83, .   | 1.6 | 121       |
| 34 |  |     |           |

| # | ARTICLE | IF | CITATIONS |
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| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s} = 5.02$ TeV $\text{PbPb}$ collisions at $\sqrt{s} = 5.02$ TeV. <i>European Physical Journal C</i> , 2018, 78, 509.  | 1.4 | 83        |
| 56 | Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in $\text{PbPb}$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>European Physical Journal C</i> , 2017, 77, 252.   | 1.4 | 82        |
| 57 | Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.                      | 1.6 | 82        |
| 58 | Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 1.   | 1.4 | 82        |
| 59 | ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.  | 1.6 | 81        |
| 60 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.   | 1.6 | 81        |
| 61 | Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.   | 1.6 | 81        |
| 62 | Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.   | 1.6 | 78        |
| 63 | Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2020, 80, 75.  | 1.4 | 78        |
| 64 | Light-quark and gluon jet discrimination in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014, 74, 3023.   | 1.4 | 77        |
| 65 | Measurement of the $W^+W^-$ cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , 2016, 76, 401.   | 1.4 | 74        |
| 66 | Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2011, 71, 1.   | 1.4 | 73        |
| 67 | Measurement of the production cross section of jets in association with a Z boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.                                      | 1.6 | 73        |
| 68 | Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. <i>European Physical Journal C</i> , 2015, 75, 251.  | 1.4 | 73        |
| 69 | Search for additional neutral MSSM Higgs bosons in the $\tilde{l}, \tilde{l}^*$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.  | 1.6 | 73        |
| 70 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.      | 1.6 | 71        |
| 71 | Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.                                | 1.6 | 70        |
| 72 | Searches for physics beyond the standard model with the $M_{T2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2020, 80, 3. | 1.4 | 70        |

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|----|--|-----|-----------|
| 73 | Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.  | 1.6 | 69        |
| 74 | Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.      | 1.4 | 68        |
| 75 | Measurement of the $\overline{t}t$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.                           | 1.4 | 68        |
| 76 | Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.   | 1.6 | 66        |
| 77 | 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. Journal of High Energy Physics, 2011, 2011, 1.              | 1.6 | 65        |
| 78 | Measurement of the $W \rightarrow \tau \nu_\tau$ and $Z \rightarrow \tau \tau$ production cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1. | 1.6 | 64        |
| 79 | Measurement of isolated-photon pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.  | 1.6 | 64        |
| 80 | Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439.  | 1.4 | 64        |
| 81 | Search for new phenomena in events with an energetic jet and missing transverse momentum in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2021, 103, 1.                                       | 1.6 | 64        |
| 82 | Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.   | 1.4 | 64        |
| 83 | The silicon microstrip sensors of the ATLAS semiconductor tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 98-118.             | 0.7 | 63        |
| 84 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                      | 1.6 | 63        |
| 85 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 13.   | 1.4 | 62        |
| 86 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 1.6 | 62        |
| 87 | Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 1.6 | 62        |
| 88 | Performance of the ATLAS muon triggers in Run 2. Journal of Instrumentation, 2020, 15, P09015-P09015.  | 0.5 | 62        |
| 89 | Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.  | 1.6 | 62        |
| 90 | Measurement of ZZ production in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous ZZZ and ZZ $\gamma$ couplings with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.                                  | 1.6 | 61        |

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|-----|--|-----|-----------|
| 91  | Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2013, 73, 1.  | 1.4 | 61        |
| 92  | Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.   | 1.6 | 61        |
| 93  | Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. European Physical Journal C, 2011, 71, 1.  | 1.4 | 60        |
| 94  | Measurement of $W \pm Z$ production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2012, 72, 1.   | 1.4 | 59        |
| 95  | Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.   | 1.6 | 59        |
| 96  | Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.                                  | 1.6 | 59        |
| 97  | Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.                                 | 1.6 | 59        |
| 98  | Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ in 2010. European Physical Journal C, 2014, 74, 3034.                                       | 1.4 | 58        |
| 99  | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $p\bar{p}$ collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2018, 78, 701.                                   | 1.4 | 58        |
| 100 | Measurement of the W boson polarization in top quark decays with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.  | 1.6 | 57        |
| 101 | Measurement of Top Quark Polarization in Top-Antitop Events from Proton-Proton Collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS Detector. Physical Review Letters, 2013, 111, 232002.   | 2.9 | 57        |
| 102 | Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 578. | 1.4 | 57        |
| 103 | Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.  | 1.6 | 57        |
| 104 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.   | 1.6 | 57        |
| 105 | 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. European Physical Journal C, 2011, 71, 1.                              | 1.4 | 56        |
| 106 | Search for direct top squark pair production in events with a Z boson, b-jets and missing transverse momentum in $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 2883.      | 1.4 | 55        |
| 107 | Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2016, 76, 451.  | 1.4 | 55        |
| 108 | Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.   | 1.6 | 54        |

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|-----|--|-----|-----------|
| 109 | Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288.                                 | 1.4 | 54        |
| 110 | Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $s = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 1.6 | 54        |
| 111 | Search for charged Higgs bosons in the $H_{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.  | 1.6 | 54        |
| 112 | Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.   | 1.6 | 54        |
| 113 | Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.  | 1.6 | 54        |
| 114 | Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in $4.7 \text{ fb}^{-1}$ of $\sqrt{s} = 7$ TeV proton-proton collisions. Journal of High Energy Physics, 2012, 2012, 1.                             | 1.6 | 53        |
| 115 | Measurement of the cross-section for W boson production in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.  | 1.6 | 53        |
| 116 | Measurement of prompt and nonprompt $J/\psi$ production in pp and pp collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.  | 1.4 | 53        |
| 117 | Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.  | 1.6 | 52        |
| 118 | Performance of jet substructure techniques for large-R jets in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.   | 1.6 | 52        |
| 119 | Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.                                      | 1.4 | 52        |
| 120 | Measurements of the $\text{pp} \rightarrow \text{Z} \text{pp}$ production cross section and the $\text{Z} \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165. | 1.4 | 52        |
| 121 | Measurement of the top quark mass with the template method in the $\text{lepton} + \text{jets}$ channel using ATLAS data. European Physical Journal C, 2012, 72, 2417.   | 1.4 | 51        |
| 122 | Measurements of Four-Lepton Production at the $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 2417.   | 2.9 | 51        |
| 123 | Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.  | 1.6 | 51        |
| 124 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 564.  | 1.4 | 50        |
| 125 | Search for pair production of massive particles decaying into three quarks with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC. Journal of High Energy Physics, 2012, 2012, 1.  | 1.6 | 48        |
| 126 | Observation of $Y(1S)$ pair production in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 1.6 | 48        |

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|-----|---|-----|-----------|
| 127 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ Te. European Physical Journal C, 2019, 79, 364.   | 1.4 | 48        |
| 128 | Search for disappearing tracks in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.   | 1.6 | 46        |
| 129 | Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ lepton at $\sqrt{s} = 13$ Te. European Physical Journal C, 2018, 78, 707.   | 1.4 | 46        |
| 130 | Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.   | 1.6 | 46        |
| 131 | Measurement of the cross section for top-quark pair production in pp collisions at $\sqrt{s} = 7, 8$ TeV with the ATLAS detector using final states with two high- $p_T$ leptons. Journal of High Energy Physics, 2012, 2012, 1.                | 1.6 | 45        |
| 132 | Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s} = 7, 8$ TeV in dilepton final states with ATLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 459-477. | 1.6 | 45        |
| 133 | Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.   | 1.4 | 45        |
| 134 | Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 1.   | 1.4 | 45        |
| 135 | Measurement of the $t\bar{t}$ production cross section in the tau + jets channel using the ATLAS detector. European Physical Journal C, 2013, 73, 2328.   | 1.4 | 45        |
| 136 | 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. Journal of High Energy Physics, 2014, 2014, 1.   | 1.6 | 45        |
| 137 | Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37.  | 1.6 | 44        |
| 138 | Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 151.   | 1.4 | 44        |
| 139 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140.   | 1.4 | 44        |
| 140 | Search for the Standard Model Higgs boson in the $H \rightarrow \tau^+\tau^-$ decay mode in $\sqrt{s} = 7$ TeV pp collisions with ATLAS. Journal of High Energy Physics, 2012, 2012, 1.   | 1.6 | 43        |
| 141 | Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060.  | 1.4 | 43        |
| 142 | Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.   | 1.6 | 43        |
| 143 | Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 325.  | 1.4 | 43        |
| 144 | Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.   | 1.6 | 43        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 145 | Measurement of the top quark pair production charge asymmetry in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.  | 1.6 | 42        |
| 146 | Evidence for exclusive $\hat{t}\hat{t}^* W + W \hat{a}^{\sim}$ production and constraints on anomalous quartic gauge couplings in pp collisions at $s = 7$ TeV and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.  | 1.6 | 42        |
| 147 | Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 1.6 | 42        |
| 148 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 1.6 | 42        |
| 149 | Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in $\sqrt{s}=7$ TeV proton-proton collisions with the ATLAS experiment. European Physical Journal C, 2011, 71, 1.   | 1.4 | 41        |
| 150 | Measurement of the $t \bar{t} \hat{A}^{\sim}$ production cross section in the $e\hat{t}^{\sim}$ channel in proton-proton collisions at $s = 7$ TeV and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.  | 1.6 | 41        |
| 151 | Measurement of the $t \bar{t} \hat{A}^{\sim}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8$ TeV and $s = 8$ TeV. European Physical Journal C, 2016, 76, 128.  | 1.4 | 41        |
| 152 | Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 1.6 | 41        |
| 153 | Measurement of properties of $B_{(s)}^0 \hat{a}^{\sim} \hat{t}^{\sim}$ decays and search for $B \hat{a}^{\sim} \hat{t}^{\sim}$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.  | 1.6 | 41        |
| 154 | Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.   | 1.6 | 41        |
| 155 | Limits on the production of the standard model Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.  | 1.4 | 40        |
| 156 | A search for $\hat{t}$ resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.   | 1.6 | 40        |
| 157 | Measurement of the $t \bar{t} \hat{A}^{\sim}$ production cross section using events in the $e\hat{t}^{\sim}$ final state in pp collisions at $\sqrt{s}=13$ TeV and $s = 13$ TeV. European Physical Journal C, 2017, 77, 172.  | 1.4 | 40        |
| 158 | Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.  | 1.4 | 40        |
| 159 | Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.  | 1.4 | 40        |
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