

# Kathrin Becker

## List of Publications by Year in descending order

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Version: 2024-02-01

411  
papers

20,716  
citations

10956

71  
h-index

18075

120  
g-index

433  
all docs

433  
docs citations

433  
times ranked

9825  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Combined Measurement of the Higgs Boson Mass in $pp$ Collisions at $\sqrt{s}=7$ and $8$ TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015, 114, 191803.   | 2.9 | 1,062     |
| 2  | Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , 2017, 77, 317.  | 1.4 | 489       |
| 3  | Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC $pp$ collision data at $\sqrt{s}=7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 1.6 | 473       |
| 4  | Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2016, 76, 292.   | 1.4 | 453       |
| 5  | Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , 2017, 77, 490.   | 1.4 | 325       |
| 6  | Evidence for the spin-0 nature of the Higgs boson using ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 120-144.   | 1.5 | 307       |
| 7  | Performance of pile-up mitigation techniques for jets in $pp$ collisions at $\sqrt{s}=8$ . <i>European Physical Journal C</i> , 2016, 76, 581.  | 1.4 | 298       |
| 8  | Luminosity determination in $pp$ collisions at $\sqrt{s}=8$ TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016, 76, 653.  | 1.4 | 279       |
| 9  | Measurements of the Higgs boson production and decay rates and coupling strengths using $pp$ collision data at $\sqrt{s}=7$ and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , 2016, 76, 6.                                    | 1.4 | 274       |
| 10 | Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 17.   | 1.4 | 268       |
| 11 | Combined measurements of Higgs boson production and decay using up to $\sqrt{s}=13$ TeV of proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2020, 101, 112002.                                 | 2.9 | 241       |
| 12 | 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. <i>European Physical Journal C</i> , 2015, 75, 299.                            | 1.4 | 238       |
| 13 | Combined measurements of Higgs boson production and decay using up to $\sqrt{s}=13$ TeV of proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2016, 116, 172301.                           | 2.9 | 228       |
| 14 | Measurement of the W-boson mass in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 110.   | 1.4 | 218       |
| 15 | Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014, 74, 3130.   | 1.4 | 213       |
| 16 | Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC. <i>Physical Review Letters</i> , 2016, 117, 182002.   | 2.9 | 185       |
| 17 | Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 903.  | 1.4 | 181       |
| 18 | Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 476.  | 1.4 | 174       |

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|----|--|-----|-----------|
| 19 | Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 173-191. | 1.5 | 169       |
| 20 | Search for new high-mass phenomena in the dilepton final state using 36 fb <sup>-1</sup> of proton-proton collision data at s = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.       | 1.6 | 168       |
| 21 | Measurements of Higgs boson production and couplings in the four-lepton channel in proton-proton collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, .        | 1.6 | 158       |
| 22 | Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at s = 13 TeV with the ATLAS detector. Physical Review D, 2017, 96, .   | 1.6 | 157       |
| 23 | Measurement of the transverse momentum and $\phi_{\tau\tau}$ distributions of Drell-Yan lepton pairs in proton-proton collisions at s = 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 291.   | 1.4 | 154       |
| 24 | Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.  | 1.4 | 145       |
| 25 | Precision measurement and interpretation of inclusive $W^+W^-$ production. European Physical Journal C, 2017, 77, 367.   | 1.4 | 145       |
| 26 | Observation of $H \rightarrow \tau\tau$ decays and $VH$ production with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 77, 367.                         | 1.5 | 138       |
| 27 | Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.                        | 1.6 | 136       |
| 28 | Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801.  | 2.9 | 133       |
| 29 | Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at s = 13 TeV. European Physical Journal C, 2018, 78, 199.                      | 1.4 | 132       |
| 30 | Measurement of the $Z/\gamma^* \rightarrow b\bar{b}$ boson transverse momentum distribution in pp collisions at s = 7 TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.                    | 1.6 | 131       |
| 31 | 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       |
| 32 | ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at s = 13 TeV. European Physical Journal C, 2019, 79, 1.   | 1.4 | 130       |
| 33 | Search for electroweak production of supersymmetric particles in final states with two or three leptons at s = 13 TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995.                           | 1.4 | 125       |
| 34 | Electron and photon performance measurements with the ATLAS detector using the 2015-2017 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P12006-P12006.                                      | 0.5 | 124       |
| 35 | Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in $pp$ collisions at s = 8 TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349.  | 1.4 | 123       |
| 36 | Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.  | 1.6 | 116       |

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|----|---|-----|-----------|
| 37 | 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. Journal of High Energy Physics, 2018, 2018, 1.         | 1.6 | 116       |
| 38 | Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 538.  | 1.4 | 115       |
| 39 | Measurement of Higgs boson properties in the diphoton decay channel with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.   | 1.6 | 115       |
| 40 | Observation and measurement of Higgs boson decays to WW in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2015, 92, 11.   | 1.6 | 110       |
| 41 | Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 5.   | 1.4 | 109       |
| 42 | Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.   | 1.6 | 108       |
| 43 | Search for heavy resonances decaying into WW in the $e^+e^- \mu^+\mu^-$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.   | 1.4 | 108       |
| 44 | Search for heavy ZZ resonances in the $e^+e^- \mu^+\mu^-$ final states using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293.   | 1.4 | 101       |
| 45 | Measurement of the Higgs boson production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review Letters, 2020, 125, 051801.  | 2.9 | 97        |
| 46 | Constraints on the off-shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector. European Physical Journal C, 2015, 75, 335.   | 1.4 | 95        |
| 47 | Search for new phenomena in events with at least three photons collected in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 210.  | 1.4 | 95        |
| 48 | Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.  | 1.4 | 93        |
| 49 | Search for Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state from pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412.  | 1.4 | 90        |
| 50 | Search for the $b\bar{b}\bar{b}$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.  | 1.6 | 89        |
| 51 | Measurement of WA <sup>±</sup> and Z-boson production cross sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 601-621. | 1.4 | 88        |
| 52 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.   | 1.4 | 87        |
| 53 | Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.   | 1.4 | 86        |
| 54 | Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.  | 1.6 | 84        |

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|----|---|-----|-----------|
| 55 | Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 1.   | 1.4 | 82        |
| 56 | Measurement of the prompt $J/\psi$ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76.   | 1.4 | 81        |
| 57 | 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. European Physical Journal C, 2017, 77, 393.               | 1.4 | 80        |
| 58 | 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. European Physical Journal C, 2015, 75, 209.                       | 1.4 | 79        |
| 59 | Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. European Physical Journal C, 2017, 77, 70.  | 1.4 | 79        |
| 60 | Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-39.                                | 1.6 | 78        |
| 61 | Search for dark matter in events with heavy quarks and missing transverse momentum in pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 92.   | 1.4 | 77        |
| 62 | Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.                       | 1.4 | 77        |
| 63 | Angular analysis of $B_0 \rightarrow \mu^+ \mu^- \gamma$ decays in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.  | 1.6 | 76        |
| 64 | Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.  | 1.4 | 75        |
| 65 | Measurement of quarkonium production in proton-lead and proton-proton collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.  | 1.4 | 75        |
| 66 | Search for Heavy Higgs Bosons $A/H$ Decaying to a Top Quark Pair in pp Collisions at $s=8$ TeV with the ATLAS Detector. Physical Review Letters, 2017, 119, 191803.   | 2.9 | 74        |
| 67 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. European Physical Journal C, 2016, 76, 666.   | 1.4 | 73        |
| 68 | Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 392.                                  | 1.4 | 73        |
| 69 | Search for supersymmetry at $\sqrt{s}=13$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. European Physical Journal C, 2016, 76, 259.                             | 1.4 | 72        |
| 70 | Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 71        |
| 71 | Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.   | 1.6 | 71        |
| 72 | Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. European Physical Journal C, 2017, 77, 332.  | 1.4 | 71        |

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|----|--|-----|-----------|
| 73 | Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 303.   | 1.4 | 70        |
| 74 | Search for resonances in diphoton events at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.   | 1.6 | 70        |
| 75 | Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \tau^-$ in fully hadronic final states using pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.  | 1.6 | 69        |
| 76 | ATLAS data quality operations and performance for 2015–2018 data-taking. Journal of Instrumentation, 2020, 15, P04003-P04003.  | 0.5 | 68        |
| 77 | Measurement of charged-particle spectra in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1.   | 1.6 | 67        |
| 78 | Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.  | 1.4 | 67        |
| 79 | Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.  | 1.6 | 67        |
| 80 | Dijet Resonance Search with Weak Supervision Using $\sqrt{s} = 13$ TeV pp Collisions in the ATLAS Detector. Physical Review Letters, 2020, 125, 131801.  | 2.9 | 67        |
| 81 | A search for $t\bar{t}A$ resonances using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.  | 1.6 | 66        |
| 82 | A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 250.   | 1.4 | 66        |
| 83 | Measurement of Spin Correlation in Top-Antitop Quark Events and Search for Top Squark Pair Production in $\sqrt{s} = 13$ TeV pp Collisions in the ATLAS Detector. Physical Review Letters, 2020, 125, 131801.  | 2.9 | 64        |
| 84 | Observation and measurements of the production of prompt and non-prompt $\psi(2S)$ mesons in association with a Z boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 229.                                    | 1.4 | 64        |
| 85 | Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.  | 1.6 | 64        |
| 86 | Search for new phenomena in events with an energetic jet and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions at the ATLAS detector. Physical Review D, 2021, 103, .   | 1.6 | 64        |
| 87 | 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        |
| 88 | Measurement of the differential cross-sections of prompt and non-prompt production of $\psi(2S)$ and $\psi(1S)$ mesons in association with a Z boson in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283. | 1.4 | 63        |
| 89 | Measurement of the Higgs boson mass in the $H \rightarrow \tau^+ \tau^-$ channels with $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector. Physics Letters. Section B: Nuclear, Elementary Particle and Hadronic Physics, 2019, 880, 130501.                   | 1.6 | 63        |
| 90 | Cross-section measurements of the Higgs boson decaying into a pair of leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2019, 99, .   | 1.6 | 63        |

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| 91  | Identification of boosted, hadronically decaying $W$ bosons and comparisons with ATLAS data taken at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 154.   | 1.4 | 62        |
| 92  | Performance of the ATLAS muon triggers in Run 2. Journal of Instrumentation, 2020, 15, P09015-P09015.  | 0.5 | 62        |
| 93  | Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay $H \rightarrow \tau^+ \tau^-$ . European Physical Journal C, 2017, 77, 241.   | 1.4 | 61        |
| 94  | Charged-particle distributions at low transverse momentum in $\sqrt{s} = 13$ TeV $pp$ interactions measured with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 502.  | 1.4 | 61        |
| 95  | Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions in the ATLAS detector. European Physical Journal C, 2017, 77, 241.   | 1.4 | 61        |
| 96  | Prompt and non-prompt $J/\psi$ and $\psi(2S)$ suppression at high transverse momentum in $5.02$ TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.  | 1.4 | 61        |
| 97  | A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 135980.  | 1.5 | 61        |
| 98  | Summary of the searches for squarks and gluinos using $\sqrt{s} = 8$ TeV $pp$ collisions with the ATLAS experiment at the LHC. Journal of High Energy Physics, 2015, 2015, 1.  | 1.6 | 60        |
| 99  | Search for a new resonance decaying to a $W$ or $Z$ boson and a Higgs boson in the $u\bar{u} / d\bar{d} / s\bar{s} / c\bar{c} / b\bar{b}$ final states with the ATLAS detector. European Physical Journal C, 2015, 75, 263.                      | 1.4 | 60        |
| 100 | Search for dark matter produced in association with bottom or top quarks in $\sqrt{s} = 13$ TeV $pp$ collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 18.  | 1.4 | 60        |
| 101 | Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ and $5.0$ TeV. European Physical Journal C, 2018, 78, 142.   | 1.4 | 59        |
| 102 | Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s} = 8$ TeV $pp$ collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 318. | 1.4 | 56        |
| 103 | Fiducial, total and differential cross-section measurements of t-channel single top-quark production in $pp$ collisions at $8$ TeV using data collected by the ATLAS detector. European Physical Journal C, 2017, 77, 531.                       | 1.4 | 56        |
| 104 | Search for direct top squark pair production in events with a $Z$ boson, $b$ -jets and missing transverse momentum in $\sqrt{s} = 8$ TeV $pp$ collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 2883.                   | 1.4 | 55        |
| 105 | Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 interpreted in the phenomenological MSSM. Journal of High Energy Physics, 2015, 2015, 1.  | 1.6 | 55        |
| 106 | Search for pair production of Higgs bosons in the $b\bar{b}$ final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.   | 1.6 | 55        |
| 107 | Measurements of fiducial cross-sections for $t\bar{t}$ production with one or two additional $b$ -jets in $pp$ collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 11.                             | 1.4 | 54        |
| 108 | Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. Physical Review Letters, 2018, 120, 211802.   | 2.9 | 53        |

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|-----|---|-----|-----------|
| 109 | Measurement of the top quark mass in the $t \rightarrow \text{lepton} + \text{jets}$ and $t \rightarrow \text{dilepton}$ channels using $\sqrt{s} = 7 \text{ TeV}$ ATLAS data. European Physical Journal C, 2015, 75, 330.  | 2.9 | 53        |
| 110 | Performance of jet substructure techniques for large-R jets in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.  | 1.6 | 52        |
| 111 | Search for lepton-flavour-violating $H \rightarrow \tau \mu$ , decays of the Higgs boson with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.  | 1.6 | 52        |
| 112 | Measurement of the top quark mass in the $t \rightarrow \text{lepton} + \text{jets}$ and $t \rightarrow \text{dilepton}$ channels using $\sqrt{s} = 7 \text{ TeV}$ ATLAS data. European Physical Journal C, 2015, 75, 330.  | 1.4 | 52        |
| 113 | Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 154.  | 1.5 | 52        |
| 114 | Search for minimal supersymmetric standard model Higgs Bosons $H/A$ and for a $Z^{\prime}$ boson in the $\text{au} \rightarrow \tau \tau$ , final state produced in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 585. | 1.4 | 51        |
| 115 | Measurement of the charged-particle multiplicity inside jets from $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2016, 76, 322.   | 1.4 | 51        |
| 116 | Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$ . European Physical Journal C, 2017, 77, 379.  | 1.4 | 51        |
| 117 | Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector. Physical Review D, 2018, 97, .  | 1.6 | 51        |
| 118 | Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295.   | 1.4 | 50        |
| 119 | Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898.   | 1.4 | 50        |
| 120 | Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in $36 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2018, 78, 401.   | 1.4 | 50        |
| 121 | Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector. Physical Review Letters, 2015, 115, 171801.   | 2.9 | 49        |
| 122 | Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 154.  | 1.4 | 52        |
| 123 | Search for minimal supersymmetric standard model Higgs Bosons $H/A$ and for a $Z^{\prime}$ boson in the $\text{au} \rightarrow \tau \tau$ , final state produced in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 585. | 1.4 | 51        |



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|-----|--|-----|-----------|
| 127 | Measurements of the Total and Differential Higgs Boson Production Cross Sections Combining the $H \rightarrow ZZ \rightarrow 4\ell$ and $H \rightarrow ZZ \rightarrow 2\ell 2\nu$ Decay Channels in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. European Physical Journal C, 2016, 76, 658.                | 2.9 | 48        |
| 128 | Test of CP invariance in vector-boson fusion production of the Higgs boson using the Optimal Observable method in the ditau decay channel with the ATLAS detector. European Physical Journal C, 2016, 76, 658.   | 1.4 | 48        |
| 129 | Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb <sup>-1</sup> of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.  | 1.6 | 48        |
| 130 | Measurements of the production cross section of a $Z$ boson in association with jets in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 361.  | 1.4 | 47        |
| 131 | Study of the rare decays of $B^0 \rightarrow s\gamma B^0$ and $B^0 \rightarrow \mu^+\mu^- B^0$ into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. European Physical Journal C, 2016, 76, 513.   | 1.4 | 46        |
| 132 | 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. Journal of High Energy Physics, 2018, 2018, 1.  | 1.6 | 46        |
| 133 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. European Physical Journal C, 2019, 79, 1.   | 1.4 | 46        |
| 134 | Measurements of gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 508-529.  | 1.5 | 46        |
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