

Sarka Todorova

List of Publications by Year in descending order

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346
papers

18,984
citations

12330

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117
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363
all docs

363
docs citations

363
times ranked

9050
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874. | 3.9 | 1,187 |
| 2 | Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317. | 3.9 | 489 |
| 3 | Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 292. | 3.9 | 453 |
| 4 | Improved luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 2518. | 3.9 | 362 |
| 5 | Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490. | 3.9 | 325 |
| 6 | Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 581. | 3.9 | 298 |
| 7 | Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653. | 3.9 | 279 |
| 8 | 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. European Physical Journal C, 2016, 76, 6. | 3.9 | 274 |
| 9 | Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 17. | 3.9 | 268 |
| 10 | Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1. | 3.9 | 259 |
| 11 | 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. European Physical Journal C, 2015, 75, 299. | 3.9 | 238 |

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1. | 3.9 | 172 |
| 20 | Measurement of the transverse momentum and ϕ^*_{η} distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 291. | 3.9 | 154 |
| 21 | 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. | 3.9 | 146 |
| 22 | 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. | 4.7 | 145 |
| 23 | Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466. | 3.9 | 145 |
| 24 | Precision measurement and interpretation of inclusive W^+W^+ , W^-W^- . European Physical Journal C, 2017, 77, 367. | 3.9 | 145 |
| 25 | Measurement of the $t\bar{t}$ production cross-section using e^+e^- events with b -tagged jets in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109. | 3.9 | 143 |
| 26 | 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. | 4.7 | 137 |
| 27 | Measurement of the Z/γ^* boson transverse momentum distribution in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 131 |
| 28 | ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1. | 3.9 | 130 |
| 29 | 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. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 128 |
| 30 | Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349. | 3.9 | 123 |
| 31 | Search for a light charged Higgs boson in the decay channel $H^+ \rightarrow c\bar{s}$ in $t\bar{t}$ events using pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2013, 73, 2465. | 3.9 | 119 |
| 32 | Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 116 |
| 33 | Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=8, 7$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 538. | 3.9 | 115 |
| 34 | | | |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Measurement of the inclusive jet cross-section in pp collisions at $\sqrt{s}=2.76$ TeV and comparison to the inclusive jet cross-section at $\sqrt{s}=7$ TeV using the ATLAS detector. European Physical Journal C, 2013, 73, 2509. | 3.9 | 105 |
| 38 | 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. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 102 |
| 39 | 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. | 3.9 | 95 |
| 40 | 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. | 3.9 | 95 |
| 41 | Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1. | 3.9 | 93 |
| 42 | Measurements of the W production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82. | 3.9 | 92 |
| 43 | 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. | 3.9 | 90 |
| 44 | Search for the $b\bar{b}\hat{H}$ 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. | 4.7 | 89 |
| 45 | 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. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 88 |
| 46 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195. | 3.9 | 87 |
| 47 | 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. | 4.7 | 84 |
| 48 | Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 82 |
| 49 | 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. | 3.9 | 82 |
| 50 | ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 81 |
| 51 | Measurement of the prompt J/ψ pair production cross-section in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76. | 3.9 | 81 |
| 52 | 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. | 3.9 | 80 |
| 53 | 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. | 3.9 | 79 |
| 54 | Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. European Physical Journal C, 2017, 77, 70. | 3.9 | 79 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-39. | 4.7 | 78 |
| 56 | Light-quark and gluon jet discrimination in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3023. | 3.9 | 77 |
| 57 | 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. | 3.9 | 77 |
| 58 | 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. | 3.9 | 77 |
| 59 | Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673. | 3.9 | 75 |
| 60 | Search for resonant diboson production in the pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69. | 3.9 | 74 |
| 61 | Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1. | 3.9 | 73 |
| 62 | 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. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 73 |
| 63 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. European Physical Journal C, 2016, 76, 666. | 3.9 | 73 |
| 64 | 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. | 3.9 | 73 |
| 65 | 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. | 3.9 | 72 |
| 66 | 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. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 71 |
| 67 | 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. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 71 |
| 68 | 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. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 71 |
| 69 | Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. European Physical Journal C, 2017, 77, 332. | 3.9 | 71 |
| 70 | 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. | 3.9 | 70 |
| 71 | Search for resonances in diphoton events at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 70 |
| 72 | Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \tau^-$, $H \rightarrow b\bar{b}$ 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. | 4.7 | 69 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3157. | 3.9 | 68 |
| 74 | Measurement of charged-particle spectra in Pb+Pb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 67 |
| 75 | Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s}=8$ TeV $\bar{p}p$ collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208. | 3.9 | 67 |
| 76 | 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. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 66 |
| 77 | A search for $t\bar{t}$ 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. | 4.7 | 66 |
| 78 | 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. | 4.7 | 64 |
| 79 | Observation and measurements of the production of prompt and non-prompt J/ψ 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. | 3.9 | 64 |
| 80 | Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 64 |
| 81 | 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. | 3.9 | 64 |
| 82 | Measurement of the differential cross-sections of prompt and non-prompt production of J/ψ and $\psi(2S)$ ($2S$) in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283. | 3.9 | 63 |
| 83 | Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 120. | 3.9 | 62 |
| 84 | 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. | 3.9 | 62 |
| 85 | Measurement of ZZ production in pp collisions at $\sqrt{s}=7$ TeV and limits on anomalous ZZZ and $ZZ\tilde{\chi}^0$ couplings with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 61 |
| 86 | 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. | 3.9 | 61 |
| 87 | 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. | 3.9 | 61 |
| 88 | Prompt and non-prompt J/ψ and $\psi(2S)$ ($2S$) suppression at high transverse momentum in 5.02 TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762. | 3.9 | 61 |
| 89 | 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. | 4.7 | 60 |
| 90 | 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. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 60 |

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|-----|--|-----|-----------|
| 91 | Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $u\bar{u} + b\bar{b}$ final states with the ATLAS detector. European Physical Journal C, 2015, 75, 263. | 3.9 | 60 |
| 92 | Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-proton collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 199. | 3.9 | 60 |
| 93 | Measurement of $W \pm Z$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 1. | 3.9 | 59 |
| 94 | Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 59 |
| 95 | 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. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 59 |
| 96 | 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. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 59 |
| 97 | Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s} = 7$ TeV in 2010. European Physical Journal C, 2014, 74, 3034. | 3.9 | 58 |
| 98 | 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. | 3.9 | 56 |
| 99 | 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. | 3.9 | 56 |
| 100 | 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. | 3.9 | 55 |
| 101 | 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. | 4.7 | 55 |
| 102 | Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 55 |
| 103 | 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. | 3.9 | 54 |
| 104 | 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. | 4.7 | 53 |
| 105 | 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. | 4.7 | 52 |
| 106 | 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. | 4.7 | 52 |
| 107 | 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. | 4.7 | 52 |
| 108 | Measurement of the top quark mass in the $t \rightarrow \text{lepton} + \text{jets}$ and $t \rightarrow \text{dilepton}$ channels using $\sqrt{s} = 7$ TeV ATLAS data. European Physical Journal C, 2015, 75, 330. | 3.9 | 52 |

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|-----|---|-----|-----------|
| 109 | Search for minimal supersymmetric standard model Higgs Bosons $H_{\hat{A}/\hat{A}}$ and for a Z^{\prime} boson in the $\tau^+ \tau^- \ell^+ \ell^-$ final state produced in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 585. | 3.9 | 51 |
| 110 | Measurement of the charged-particle multiplicity inside jets from $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2016, 76, 322. | 3.9 | 51 |
| 111 | Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295. | 3.9 | 50 |
| 112 | Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898. | 3.9 | 50 |
| 113 | Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 49 |
| 114 | Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s} = 13$ TeV pp collision data collected by the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 49 |
| 115 | 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. | 4.7 | 48 |
| 116 | Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3134. | 3.9 | 48 |
| 117 | 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. | 3.9 | 48 |
| 118 | Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 48 |
| 119 | Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 47 |
| 120 | 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. | 3.9 | 47 |
| 121 | Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3195. | 3.9 | 46 |
| 122 | Study of the rare decays of $B^0 \rightarrow s \gamma$ and $B^0 \rightarrow \mu^+ \mu^-$ into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. European Physical Journal C, 2016, 76, 513. | 3.9 | 46 |
| 123 | Measurement of the Higgs boson coupling properties in the $H \rightarrow Z \gamma \gamma$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 46 |
| 124 | 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. | 3.9 | 46 |
| 125 | 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. | 4.7 | 46 |
| 126 | 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. | 3.9 | 45 |

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|-----|---|-----|-----------|
| 127 | Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 1. | 3.9 | 45 |
| 128 | Measurement of the τ production cross section in the tau + jets channel using the ATLAS detector. European Physical Journal C, 2013, 73, 2328. | 3.9 | 45 |
| 129 | Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at $\sqrt{s} = 8$ TeV with ATLAS. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 45 |
| 130 | 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. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 45 |
| 131 | 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. | 4.7 | 45 |
| 132 | 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. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 45 |
| 133 | Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 44 |
| 134 | Search for charged Higgs bosons in the $H \rightarrow \tau^+ \tau^-$ decay channel in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 43 |
| 135 | Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 442. | 3.9 | 43 |
| 136 | Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 55. | 3.9 | 43 |
| 137 | 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. | 4.7 | 42 |
| 138 | Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 42 |
| 139 | Two-particle Bose-Einstein correlations in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV measured with the ATLAS detector. European Physical Journal C, 2015, 75, 466. | 3.9 | 42 |
| 140 | Performance of top-quark and W -boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1. | 3.9 | 42 |
| 141 | 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. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 41 |
| 142 | Measurement of the production and lepton charge asymmetry of W bosons in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 23. | 3.9 | 41 |
| 143 | Measurement of the $\tau \rightarrow Z$ and $\tau \rightarrow W$ production cross sections in multilepton final states using 3.2 fb ⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 40. | 3.9 | 41 |
| 144 | Higgs boson production cross-section measurements and their EFT interpretation in the $h \rightarrow \tau\tau$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 41 |

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|-----|---|-----|-----------|
| 145 | Measurements of jet vetoes and azimuthal decorrelations in dijet events produced in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2014, 74, 3117. | 3.9 | 40 |
| 146 | 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 $s = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1. | 4.7 | 40 |
| 147 | Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at $s = 7$ TeV in the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1. | 4.7 | 40 |
| 148 | Study of the $B_c^+ \rightarrow J/\psi D_s^+ B_c + \hat{t}^* J/\psi D_s^+$ and $B_c^+ \rightarrow J/\psi D_s^+ \hat{t}^* J/\psi D_s^+$ decays with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 4. | 3.9 | 40 |
| 149 | Measurements of b-jet tagging efficiency with the ATLAS detector using $t\bar{t}$ events at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 40 |
| 150 | Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- u \bar{u}$ final states using 139 fb ⁻¹ of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 40 |
| 151 | Search for flavour-changing neutral current top-quark decays to qZ in pp collision data collected with the ATLAS detector at $\sqrt{s}=8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 12. | 3.9 | 39 |
| 152 | Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s}=8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 87. | 3.9 | 39 |
| 153 | Search for strong production of supersymmetric particles in final states with missing transverse momentum and at least three b-jets at $s = 8$ TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1. | 4.7 | 38 |
| 154 | Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $s = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 4.7 | 38 |
| 155 | Measurements of WH and ZH production in the $H \rightarrow \bar{b}b$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 38 |
| 156 | Search for bottom squark pair production in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 547. | 3.9 | 37 |
| 157 | Measurement of the W boson polarisation in $t\bar{t} + \text{jets}$ events from pp collisions at $\sqrt{s}=8$ TeV in the lepton+jets channel with ATLAS. <i>European Physical Journal C</i> , 2017, 77, 264. | 3.9 | 37 |
| 158 | Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , 2019, 14, P03017-P03017. | 1.2 | 37 |
| 159 | Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb ⁻¹ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1. | 4.7 | 37 |
| 160 | ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1. | 3.9 | 36 |
| 161 | Measurement of dijet cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1. | 4.7 | 36 |
| 162 | Search for heavy lepton resonances decaying to a Z boson and a lepton in pp collisions at $s = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1. | 4.7 | 36 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Search for heavy long-lived multi-charged particles in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2015, 75, 362. | 3.9 | 36 |
| 164 | Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 36 |
| 165 | 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. European Physical Journal C, 2020, 80, 1. | 3.9 | 36 |
| 166 | Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 35 |
| 167 | Measurement of the production cross section of prompt J/ψ mesons in association with a W^{\pm} boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 35 |
| 168 | Search for $W' \rightarrow t\bar{t} \rightarrow q\bar{q}bb$ and $W \rightarrow t\bar{t} \rightarrow q\bar{q}bb$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 165. | 3.9 | 35 |
| 169 | Measurement of the inclusive jet cross-section in proton-proton collisions at $\sqrt{s} = 7$ TeV using 4.5 fb ⁻¹ of data with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 35 |
| 170 | Multi-channel search for squarks and gluinos in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 2362. | 3.9 | 34 |
| 171 | Measurements of top-quark pair differential and double-differential cross-sections in the $t\bar{t} + \text{jets}$ channel with pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 34 |
| 172 | Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 34 |
| 173 | Measurement of jet shapes in top-quark pair events at $\sqrt{s} = 7$ TeV using the ATLAS detector. European Physical Journal C, 2013, 73, 2676. | 3.9 | 33 |
| 174 | Analysis of events with b-jets and a pair of leptons of the same charge in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 33 |
| 175 | Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 33 |
| 176 | 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. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 33 |
| 177 | Measurements of $\Upsilon(2S)$ and $\chi(3872) \rightarrow J/\psi \Upsilon + \bar{\Upsilon} \rightarrow \gamma$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 33 |
| 178 | Search for third generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 32 |
| 179 | Measurement of $\Upsilon(1S)$ and $\Upsilon(2S)$ production with $\sqrt{s} = 7$ TeV pp collisions at ATLAS. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 32 |
| 180 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $H \rightarrow b\bar{b}$ decay channel at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1. | 3.9 | 32 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in $\sqrt{s}=7 \text{ TeV}$ proton-proton collisions. European Physical Journal C, 2012, 72, 1. | 3.9 | 31 |
| 182 | Measurement of the differential cross-section of B + meson production in pp collisions at $\sqrt{s}=7 \text{ TeV}$ at ATLAS. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 31 |
| 183 | Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 565. | 3.9 | 31 |
| 184 | A search for prompt lepton-jets in pp collisions at $\sqrt{s}=8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 31 |
| 185 | Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 31 |
| 186 | Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at $\sqrt{s}=8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 79. | 3.9 | 30 |
| 187 | Measurement of the $t\bar{t}$ production cross-section as a function of jet multiplicity and jet transverse momentum in 7 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 30 |
| 188 | Study of hard double-parton scattering in four-jet events in pp collisions at $\sqrt{s}=7 \text{ TeV}$ with the ATLAS experiment. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 30 |
| 189 | Charged-particle distributions in pp interactions at $\sqrt{s}=8 \text{ TeV}$ measured with the ATLAS detector. European Physical Journal C, 2016, 76, 403. | 3.9 | 30 |
| 190 | Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 30 |
| 191 | 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. European Physical Journal C, 2020, 80, 1. | 3.9 | 30 |
| 192 | A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 pp-collision data with the ATLAS detector. European Physical Journal C, 2017, 77, 26. | 3.9 | 29 |
| 193 | Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 29 |
| 194 | Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 29 |
| 195 | Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at $\sqrt{s}=7 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 28 |
| 196 | Measurement of the Drell-Yan triple-differential cross section in pp collisions at $\sqrt{s}=8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 28 |
| 197 | Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s}=13 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 28 |
| 198 | Search for metastable heavy charged particles with large ionisation energy loss in pp collisions at $\sqrt{s}=8 \text{ TeV}$ using the ATLAS experiment. European Physical Journal C, 2015, 75, 407. | 3.9 | 27 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | 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. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 27 |
| 200 | Measurements of top-quark pair differential cross-sections in the $e e^{-1/4}$ channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. European Physical Journal C, 2017, 77, 292. | 3.9 | 27 |
| 201 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\bar{l}, -l$ lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 27 |
| 202 | Measurements of electroweak $W W_{jj}$ production and constraints on anomalous gauge couplings with the ATLAS detector. European Physical Journal C, 2017, 77, 474. | 3.9 | 26 |
| 203 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $e e^{-1/4}$ and $e e^{-1/4} W W$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 26 |
| 204 | Measurement of the low-mass Drell-Yan differential cross section at $\sqrt{s} = 7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 25 |
| 205 | Determination of the top-quark pole mass using $t \bar{t} + 1$ -jet events collected with the ATLAS experiment in 7 TeV pp collisions. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 25 |
| 206 | Searches for heavy diboson resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 25 |
| 207 | Search for triboson $W^{\pm} W^{\pm} W^{\mp}$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 141. | 3.9 | 25 |
| 208 | Search for the Higgs boson produced in association with a W boson and decaying to four b-quarks via two spin-zero particles in pp collisions at 13 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 605. | 3.9 | 24 |
| 209 | Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2016, 76, 517. | 3.9 | 24 |
| 210 | Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 24 |
| 211 | Measurement of fiducial and differential $W^{+} W^{-}$ production cross-sections at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 24 |
| 212 | Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 24 |
| 213 | A measurement of the ratio of the production cross sections for $W W$ and $Z Z$ bosons in association with jets with the ATLAS detector. European Physical Journal C, 2014, 74, 3168. | 3.9 | 23 |
| 214 | Measurement of the underlying event in jet events from 7 TeV proton-proton collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 1. | 3.9 | 23 |
| 215 | A search for high-mass resonances decaying to $\bar{l}, +l, \bar{\nu}$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 23 |
| 216 | Measurement of three-jet production cross-sections in pp collisions at $\sqrt{s} = 7$ TeV centre-of-mass energy using the ATLAS detector. European Physical Journal C, 2015, 75, 228. | 3.9 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 217 | Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 541. | 3.9 | 23 |
| 218 | Measurement of the inclusive jet cross-sections in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 23 |
| 219 | Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 23 |
| 220 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1. | 2.9 | 23 |
| 221 | Measurement of the centrality and pseudorapidity dependence of the integrated elliptic flow in lead-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 2982. | 3.9 | 22 |
| 222 | Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 22 |
| 223 | Measurement of the $t\bar{t}W$ and $t\bar{t}Z$ production cross sections in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 22 |
| 224 | Study of (W/Z)H production and Higgs boson couplings using $H\rightarrow WW$ decays with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 22 |
| 225 | Measurements of top-quark pair spin correlations in the $t\bar{t}$ channel at $\sqrt{s}=13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 22 |
| 226 | 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. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 22 |
| 227 | Measurement of the production cross-section of $J/\psi(\psi(2S))\rightarrow\psi(1S)\psi(1S)$ in pp collisions at $\sqrt{s}=7$ TeV at ATLAS. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 21 |
| 228 | Determination of spin and parity of the Higgs boson in the $WW\rightarrow e\mu u\bar{u}$ decay channel with the ATLAS detector. European Physical Journal C, 2015, 75, 231. | 3.9 | 21 |
| 229 | The performance of the jet trigger for the ATLAS detector during 2011 data taking. European Physical Journal C, 2016, 76, 526. | 3.9 | 21 |
| 230 | Search for the Standard Model Higgs boson decaying into $b\bar{b}$ produced in association with top quarks decaying hadronically in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 21 |
| 231 | Search for new phenomena in events with three or more charged leptons in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 20 |
| 232 | Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 20 |
| 233 | Measurements of top quark spin observables in $t\bar{t}$ events using dilepton final states in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 20 |
| 234 | Search for charged Higgs bosons through the violation of lepton universality in $t\bar{t}$ events using pp collision data at $\sqrt{s}=7$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 235 | Measurement of k_T splitting scales in $W\hat{t}\hat{a}, \hat{t}\hat{t}^{1/2}$ events at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2013, 73, 2432. | 3.9 | 19 |
| 236 | Search for flavour-changing neutral current top quark decays $t \hat{t}^* H_q$ in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-65. | 4.7 | 19 |
| 237 | Addendum to "Measurement of the $t\bar{t}$ production cross-section using $e\bar{e} \hat{t}^{1/4}$ events with b-tagged jets in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector". European Physical Journal C, 2016, 76, 1. | 3.9 | 19 |
| 238 | Search for the production of single vector-like and excited quarks in the Wt final state in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 19 |
| 239 | Probing lepton flavour violation via neutrinoless $\nu\bar{\nu} \rightarrow 3\mu, \nu\bar{\nu} \rightarrow 3\hat{t}^{1/4}$ decays with the ATLAS detector. European Physical Journal C, 2016, 76, 232. | 3.9 | 19 |
| 240 | Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb^{-1} of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 19 |
| 241 | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb^{-1} of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 19 |
| 242 | Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 18 |
| 243 | Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 18 |
| 244 | Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 18 |
| 245 | Search for anomalous production of prompt like-sign lepton pairs at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 17 |
| 246 | Measurement of the top quark charge in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 17 |
| 247 | Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 17 |
| 248 | Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2015, 75, 158. | 3.9 | 17 |
| 249 | Identification of high transverse momentum top quarks in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 17 |
| 250 | Probing the Wtb vertex structure in t-channel single-top-quark production and decay in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 17 |
| 251 | Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with ATLAS. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 252 | Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 253 | Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 17 |
| 254 | Search for the $HH \rightarrow b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 17 |
| 255 | Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 17 |
| 256 | Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $\sqrt{s} = 8$ TeV proton-proton collisions. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 16 |
| 257 | Top-quark mass measurement in the all-hadronic $t \rightarrow b\bar{b}$ decay channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 16 |
| 258 | Measurement of differential cross sections and W^+/\bar{W}^+ cross-section ratios for W boson production in association with jets at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 16 |
| 259 | Search for direct chargino production in anomaly-mediated supersymmetry breaking models based on a disappearing-track signature in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 15 |
| 260 | Measurement of the flavour composition of dijet events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2013, 73, 1. | 3.9 | 15 |
| 261 | Search for WH production with a light Higgs boson decaying to prompt electron-jets in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. New Journal of Physics, 2013, 15, 043009. | 2.9 | 15 |
| 262 | Measurement of event-shape observables in $Z \rightarrow e^+e^- \gamma$ events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 375. | 3.9 | 15 |
| 263 | Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW \rightarrow e^+e^- \mu^+\mu^-$ with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 15 |
| 264 | Search for strong gravity in multijet final states produced in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 15 |
| 265 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1. | 3.9 | 15 |
| 266 | Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 15 |
| 267 | A search for top squarks with R-parity-violating decays to all-hadronic final states with the ATLAS detector in $\sqrt{s} = 8$ TeV proton-proton collisions. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 14 |
| 268 | Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 14 |
| 269 | Measurement of VH , $H \rightarrow b\bar{b}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 14 |
| 270 | Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 271 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 1. | 3.9 | 14 |
| 272 | 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. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 14 |
| 273 | Search for $\overline{t}t$ resonances in fully hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 14 |
| 274 | Measurement of the c-jet mistagging efficiency in $t\bar{t}$ events using pp collision data at $\sqrt{s}=13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, . | 3.9 | 14 |
| 275 | Search for R-parity-violating supersymmetry in events with four or more leptons in $\sqrt{s}=7$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 13 |
| 276 | Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 7 TeV proton-proton collision data with the ATLAS detector. European Physical Journal C, 2012, 72, 1. | 3.9 | 13 |
| 277 | The differential production cross section of the $\phi(1020)$ meson in $\sqrt{s} = 7$ TeV pp collisions measured with the ATLAS detector. European Physical Journal C, 2014, 74, 2895. | 3.9 | 13 |
| 278 | Measurement of the CP-violating phase γ_s and the B_s^0 meson decay width difference with $B_s^0 \rightarrow \tau^+ \tau^-$ decays in ATLAS. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 13 |
| 279 | Search for new phenomena with photon+jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 13 |
| 280 | Search for anomalous couplings in the Wtb vertex from the measurement of double differential angular decay rates of single top quarks produced in the t-channel with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1-46. | 4.7 | 13 |
| 281 | 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. European Physical Journal C, 2021, 81, 1. | 3.9 | 13 |
| 282 | Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb^{-1} of $\sqrt{s} = 8$ TeV proton-proton collision data with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 12 |
| 283 | Measurement of the $b\bar{b}$ dijet cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 670. | 3.9 | 12 |
| 284 | 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. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 12 |
| 285 | 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. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 12 |
| 286 | Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s} = 8.16$ TeV p+Pb collisions with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 12 |
| 287 | Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. European Physical Journal C, 2021, 81, 1. | 3.9 | 12 |
| 288 | Search for supersymmetry in events with four or more charged leptons in 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 289 | Measurements of the inclusive and differential production cross sections of a top-quark \bar{t} antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 12 |
| 290 | 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. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 12 |
| 291 | Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1. | 3.9 | 12 |
| 292 | Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and 13 TeV. European Physical Journal C, 2022, 82, 1. | 3.9 | 12 |
| 293 | Measurement of four-jet differential cross sections in $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-76. | 4.7 | 11 |
| 294 | Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period. Journal of Instrumentation, 2016, 11, P05013-P05013. | 1.2 | 11 |
| 295 | Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton \bar{p} collisions at $\sqrt{s} = 13$ TeV recorded with the ATLAS detector. European Physical Journal C, 2016, 76, 683. | 3.9 | 11 |
| 296 | Measurement of jet activity produced in top-quark events with an electron, a muon and two b-tagged jets in the final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 220. | 3.9 | 11 |
| 297 | 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. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 11 |
| 298 | Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 10 |
| 299 | Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 10 |
| 300 | Search for direct top squark pair production in final states with two tau leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 81. | 3.9 | 10 |
| 301 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential W^{\pm} and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 10 |
| 302 | Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 10 |
| 303 | Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 10 |
| 304 | 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. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 10 |
| 305 | A new method to distinguish hadronically decaying boosted Z bosons from W bosons using the ATLAS detector. European Physical Journal C, 2016, 76, 238. | 3.9 | 9 |
| 306 | Measurements of charge and CP asymmetries in b-hadron decays using top-quark events collected by the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 307 | Measurement of the ZZ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ZZ $\rightarrow \tau^+ \tau^- \nu \nu$, $\tau^+ \tau^- \mu \mu$, $\tau^+ \tau^- e e$ and ZZ $\rightarrow \tau^+ \tau^- \mu \mu$, $\tau^+ \tau^- e e$, $\tau^+ \tau^- \nu \nu$ decay channels with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | | |
| 308 | 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. European Physical Journal C, 2019, 79, 1. | 3.9 | 9 |
| 309 | Search for dark matter produced in association with a single top quark in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 9 |
| 310 | Measurement of the relative width difference of the $B^0 \rightarrow B^+ B^-$ system with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 8 |
| 311 | 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. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 8 |
| 312 | Measurements of $W+W\bar{\nu} + \text{1 jet}$ production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 8 |
| 313 | Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 8 |
| 314 | Reconstruction and identification of boosted $di\bar{l}$ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 8 |
| 315 | Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at 13 TeV with the ATLAS detector. European Physical Journal C, 2022, 82, 1. | 3.9 | 8 |
| 316 | 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. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 7 |
| 317 | 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. European Physical Journal C, 2021, 81, 1. | 3.9 | 7 |
| 318 | Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1. | 3.9 | 7 |
| 319 | Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, 1. | 3.9 | 7 |
| 320 | 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. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 6 |
| 321 | 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. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 6 |
| 322 | Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1. | 3.9 | 6 |
| 323 | Quantization of the QCD string with a helical structure. Physical Review D, 2014, 89, 1. | 4.7 | 5 |
| 324 | A search for the decays of stopped long-lived particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 325 | Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. European Physical Journal C, 2021, 81, 1. | 3.9 | 5 |
| 326 | The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1. | 3.9 | 5 |
| 327 | Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 4 |
| 328 | 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. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 4 |
| 329 | Measurement of hadronic event shapes in high-pT multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 4 |
| 330 | Search for top squarks in events with a Higgs or Z boson using 139 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 4 |
| 331 | Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^+ \rightarrow e^+ \nu_e$ events in Run 2 data. European Physical Journal C, 2022, 82, 1. | 3.9 | 4 |
| 332 | Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 4 |
| 333 | 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. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 4 |
| 334 | Study of the helix structure of QCD string. Physical Review D, 2012, 86, . | 4.7 | 3 |
| 335 | Measurements of inclusive and differential cross-sections of combined $\overline{t}\gamma$ and tW^3 production in the e^+e^- channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 3 |
| 336 | Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8$, ext {TeV} with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 3 |
| 337 | Measurement of the inclusive jet cross-section in proton-proton collisions at ($\sqrt{s} = 7$) TeV using 4.5 fb ⁻¹ of data with the ATLAS detector. , 2015, 2015, 1. | | 3 |
| 338 | Measurement of b-quark fragmentation properties in jets using the decay $B^{\pm} \rightarrow \mu^{\pm} J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 3 |
| 339 | 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. New Journal of Physics, 2016, 18, 073021. | 2.9 | 2 |
| 340 | Measurement of the ($\overline{t}\gamma$) production cross-section using ($e\mu$) events with (b)-tagged jets in (pp) collisions at ($\sqrt{s} = 7$) and 8 TeV with the ATLAS detector. , 2014, 74, 1. | | 2 |
| 341 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at ($\sqrt{s} = 8$) TeV with the ATLAS detector. , 2015, 75, 1. | | 2 |
| 342 | Search for exotic decays of the Higgs boson into $b\overline{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 343 | Measurement of the energy asymmetry in $t\bar{t}$ production at $\sqrt{s}=13$ TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, . | 3.9 | 2 |
| 344 | Baryon production in the quantized fragmentation of helical QCD string. Physical Review D, 2021, 104, . | 4.7 | 1 |
| 345 | Search for production of (WW/WZ) resonances decaying to a lepton, neutrino and jets in (pp) collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. , 2015, 75, 1. | | 1 |
| 346 | Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s}=8$ TeV with the ATLAS detector. , 2016, 76, 1. | | 1 |