

John Baines

List of Publications by Year in descending order

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605
papers

40,544
citations

4658

85
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4432

172
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634
all docs

634
docs citations

634
times ranked

12620
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 1-29. | 4.1 | 6,386 |
| 2 | The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003. | 1.2 | 1,752 |
| 3 | The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874. | 3.9 | 1,187 |
| 4 | Combined Measurement of the Higgs Boson Mass in $\text{Collisions at } \sqrt{s} = 7 \text{ and } 8 \text{ TeV with the ATLAS and CMS Experiments. Physical Review Letters, 2015, 114, 191803.}$ | 7.8 | 1,062 |
| 5 | Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317. | 3.9 | 489 |
| 6 | 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. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 473 |
| 7 | 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 |
| 8 | 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 |
| 9 | Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490. | 3.9 | 325 |
| 10 | Evidence for the spin-0 nature of the Higgs boson using ATLAS data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 120-144. | 4.1 | 307 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1. | 3.9 | 259 |
| 16 | Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. European Physical Journal C, 2012, 72, 1. | 3.9 | 248 |
| 17 | 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 |
| 18 | | | |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 318, 1. | 4.1 | 231 |
| 20 | Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s} = 7$ TeV with ATLAS. European Physical Journal C, 2012, 72, 1. | 3.9 | 230 |
| 21 | Observation of Long-Range Elliptic Anisotropy in $\sqrt{s_{NN}} = 2.76$ TeV collisions with the ATLAS Detector. Physical Review Letters, 2016, 116, 172301. | 7.8 | 228 |
| 22 | Measurement of the W-boson mass in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 110. | 3.9 | 218 |
| 23 | Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. European Physical Journal C, 2014, 74, 3130. | 3.9 | 213 |
| 24 | Jet energy resolution in proton-proton collisions at $\sqrt{s} = 7$ TeV recorded in 2010 with the ATLAS detector. European Physical Journal C, 2013, 73, 2306. | 3.9 | 209 |
| 25 | Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. European Physical Journal C, 2014, 74, 2941. | 3.9 | 204 |
| 26 | Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 318, 1. | 4.1 | 195 |
| 27 | Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s} = 7$ TeV with the ATLAS Detector at the LHC. Physical Review Letters, 2016, 117, 182002. | 7.8 | 185 |
| 28 | Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 903. | 3.9 | 181 |
| 29 | Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 175 |
| 30 | Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. European Physical Journal C, 2015, 75, 476. | 3.9 | 174 |
| 31 | Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1. | 3.9 | 172 |
| 32 | 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. | 4.1 | 169 |
| 33 | Search for Scalar Diphoton Resonances in the Mass Range 650-600 GeV with the ATLAS Detector using Collision Data at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 118, 171801. | 7.8 | 168 |
| 34 | Search for new high-mass phenomena in the dilepton final state using 36 fb ⁻¹ of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 168 |
| 35 | Measurement of the transverse momentum and p_T 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 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s} = 8\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 145 |
| 38 | Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466. | 3.9 | 145 |
| 39 | Precision measurement and interpretation of inclusive W^+W^- , W^+W^0 . European Physical Journal C, 2017, 77, 367. | 3.9 | 145 |
| 40 | Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s} = 8\text{TeV}$ with the ATLAS Detector. Physical Review Letters, 2018, 121, 211801. | 7.8 | 145 |
| 41 | Measurement of the $t\bar{t}$ production cross-section using b -tagged jets in pp collisions at $\sqrt{s} = 7$ and 8TeV with the ATLAS detector. Observation of $H \rightarrow b\bar{b}$ decays and VH production with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 347, 1302. | 3.9 | 143 |
| 42 | 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. | 4.1 | 138 |
| 43 | 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. | 4.7 | 137 |
| 44 | Measurements of the Nuclear Modification Factor for jets in pp collisions at $\sqrt{s} = 7$ and 8TeV with the ATLAS Detector. Physical Review Letters, 2015, 114, 072302. | 4.7 | 136 |
| 45 | Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801. | 7.8 | 135 |
| 46 | Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2018, 78, 199. | 7.8 | 133 |
| 47 | Measurement of the $Z/\gamma^* \rightarrow b\bar{b}$ boson transverse momentum distribution in pp collisions at $\sqrt{s} = 7$ and 8TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 3.9 | 132 |
| 48 | Search for Invisible Decays of a Higgs Boson Produced in Association with a $Z/\gamma^* \rightarrow b\bar{b}$ Boson in ATLAS. Physical Review Letters, 2014, 112, . | 4.7 | 131 |
| 49 | ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2019, 79, 1. | 7.8 | 130 |
| 50 | Search for Dark Matter in Events with a Hadronically Decaying W Boson and Missing Transverse Momentum in pp Collisions at $\sqrt{s} = 8\text{TeV}$ with the ATLAS Detector. Physical Review Letters, 2014, 112, 041802. | 3.9 | 130 |
| 51 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s} = 8\text{TeV}$ proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 128 |
| 52 | Search for charged Higgs bosons decaying via $H \rightarrow \tau^+\tau^-$ in $t\bar{t}$ events using pp collision data at $\sqrt{s} = 7\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 126 |
| 53 | Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s} = 13\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 995. | 3.9 | 125 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Search for heavy ZZ resonances in the $\ell\ell^+\ell\ell^-$ $\ell\ell^+\ell\ell^-$ $\ell\ell^+\ell\ell^-$ $\ell\ell^+\ell\ell^-$ final states using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293. | 3.9 | 101 |
| 74 | Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1. | 3.9 | 100 |
| 75 | Search for Higgs Boson Pair Production in the $b\bar{b}$ Final State Using pp Collision Data at $\sqrt{s} = 8$ TeV from the ATLAS Detector. Physical Review Letters, 2015, 114, 081802. | 7.8 | 98 |
| 76 | Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Collisions at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle$ TeV from the ATLAS Detector. Physical Review Letters, 2020, 125, 051801. | 7.8 | 97 |
| 77 | 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 |
| 78 | 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 |
| 79 | Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1. | 3.9 | 93 |
| 80 | 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 |
| 81 | 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 |
| 82 | Search for the $b\bar{b}\overline{b}$ 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. | 4.7 | 89 |
| 83 | Jet mass and substructure of inclusive jets in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS experiment. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 88 |
| 84 | 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 |
| 85 | Measurement of W 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, 758, 601-621. | 4.7 | 88 |
| 86 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195. | 3.9 | 87 |
| 87 | Measurement of multi-particle azimuthal correlations in pp, $p\bar{p}$ and low-multiplicity $Pb\bar{Pb}$ collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428. | 3.9 | 86 |
| 88 | 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 |
| 89 | 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 |
| 90 | Observation of an Excited B_c State with the ATLAS Detector. Physical Review Letters, 2014, 113, 212004. | 4.7 | 82 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | 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 |
| 92 | 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 |
| 93 | 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 |
| 94 | 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 |
| 95 | 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 |
| 96 | 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 |
| 97 | Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 565. | 3.9 | 79 |
| 98 | 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. | 4.7 | 78 |
| 99 | 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 |
| 100 | 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 |
| 101 | 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 |
| 102 | Angular analysis of $B_0 \rightarrow K^* \ell^+ \ell^-$ decays in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 76 |
| 103 | Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673. | 3.9 | 75 |
| 104 | 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. | 3.9 | 75 |
| 105 | Observation of Light-by-Light Scattering in Ultraperipheral Pb-Pb Collisions with the ATLAS Detector. Physical Review Letters, 2019, 123, 052001. | 7.8 | 75 |
| 106 | Search for resonant diboson production in the $\ell\ell \rightarrow q\bar{q} \gamma^* \gamma^* \rightarrow q\bar{q} \ell\ell$ final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69. | 3.9 | 74 |
| 107 | Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. Physical Review Letters, 2017, 119, 191803. | 7.8 | 74 |
| 108 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | 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 |
| 110 | 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 |
| 111 | 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 |
| 112 | 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 |
| 113 | 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 |
| 114 | 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. | 4.7 | 71 |
| 115 | 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. | 4.7 | 71 |
| 116 | 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 |
| 117 | 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 |
| 118 | Search for resonances in diphoton events at $s=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 70 |
| 119 | Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b}$ Decay Channel in $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 191801. | 7.8 | 70 |
| 120 | Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \bar{\nu}_\tau$, $H \rightarrow \tau^\pm \nu_\tau$ 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. | 4.7 | 69 |
| 121 | Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3157. | 3.9 | 68 |
| 122 | ATLAS data quality operations and performance for 2015-2018 data-taking. Journal of Instrumentation, 2020, 15, P04003-P04003. | 1.2 | 68 |
| 123 | Search for new resonances in mass distributions of jet pairs using 139 fb ⁻¹ of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 68 |
| 124 | Measurement of charged-particle spectra in Pb+Pb collisions at $s_{NN}=2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 67 |
| 125 | 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. | 3.9 | 67 |
| 126 | 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. | 4.7 | 67 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | 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 |
| 146 | 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 |
| 147 | Prompt and non-prompt J/ψ and $\psi(2S)$ suppression at high transverse momentum in $\sqrt{s} = 5.02$ TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762. | 3.9 | 61 |
| 148 | Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58. | 3.9 | 61 |
| 149 | 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. | 4.1 | 61 |
| 150 | Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. European Physical Journal C, 2011, 71, 1. | 3.9 | 60 |
| 151 | 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 |
| 152 | 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 |
| 153 | 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 |
| 154 | Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-proton collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 199. | 3.9 | 60 |
| 155 | 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. | 3.9 | 60 |
| 156 | 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 |
| 157 | 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 |
| 158 | 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 |
| 159 | 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 |
| 160 | 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. | 3.9 | 59 |
| 161 | Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \tau^-$, $H \rightarrow \tau^+ \tau^- \nu_\tau$, in the $\tau^+ \tau^- + \text{jets}$ and $\tau^+ \tau^- + \text{lepton}$ final states with 36 fb ⁻¹ of pp collision data recorded at $\sqrt{s} = 13$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 59 |
| 162 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Measurement of the W boson polarization in top quark decays with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 57 |
| 164 | Measurement of Top Quark Polarization in Top-Antitop Events from Proton-Proton Collisions at $\sqrt{s}=8$ TeV. Physical Review Letters, 2013, 111, 232002. | 7.8 | 57 |
| 165 | Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1. | 3.9 | 56 |
| 166 | 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 |
| 167 | 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 |
| 168 | Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 56 |
| 169 | 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 |
| 170 | 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 |
| 171 | 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. | 4.7 | 55 |
| 172 | Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 54 |
| 173 | Search for high-mass resonances decaying to dilepton final states in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 54 |
| 174 | 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 |
| 175 | Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb^{-1} of $\sqrt{s}=7$ TeV proton-proton collisions. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 53 |
| 176 | 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 |
| 177 | Search for Higgs boson pair production in the $\gamma\gamma WW$ channel using pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 1007. | 3.9 | 53 |
| 178 | Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. Physical Review Letters, 2018, 120, 211802. | 7.8 | 53 |
| 179 | Production of a Same-Sign W^+W^- Boson Pair in Association with Two Jets in pp Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 120, 211802. | 7.8 | 53 |
| 180 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | 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 |
| 182 | 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 |
| 183 | Measurement of the top quark mass in the $t \rightarrow \tau \tau \bar{t}$ lepton+jets and $t \rightarrow \tau \tau \bar{t}$ dilepton channels using $\sqrt{s}=7$ TeV ATLAS data. European Physical Journal C, 2015, 75, 330. | 3.9 | 52 |
| 184 | Measurement of the top quark mass in the $t \rightarrow \tau \tau \bar{t}$ dilepton channel from $t \bar{t}$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 330. | 4.1 | 52 |
| 185 | Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 154. | 3.9 | 52 |
| 186 | Measurement of the top quark mass with the template method in the $t \rightarrow \tau \tau \bar{t}$ channel using ATLAS data. European Physical Journal C, 2012, 72, 2046. | 3.9 | 51 |
| 187 | Search for resonant production of $Z \rightarrow \tau \tau$ in $t \bar{t}$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 2046. | 7.8 | 51 |
| 188 | Search for minimal supersymmetric standard model Higgs Bosons H/A and for a $Z \rightarrow \tau \tau$ boson in the $\tau \tau \bar{t} t$, 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 |
| 189 | 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 |
| 190 | Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. European Physical Journal C, 2017, 77, 379. | 3.9 | 51 |
| 191 | Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{NN}}=5.02$ TeV Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 997. | 3.9 | 51 |
| 192 | Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295. | 3.9 | 50 |
| 193 | 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 |
| 194 | Search for High-Mass Resonances Decaying to $t \bar{t}$ in $t \bar{t}$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 2046. | 7.8 | 50 |
| 195 | Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb ⁻¹ of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 401. | 3.9 | 50 |
| 196 | Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 50 |
| 197 | Two Photons in $t \bar{t}$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 2046. | 7.8 | 49 |
| 198 | Search for Higgs and $Z \rightarrow \tau \tau$ boson decays in $t \bar{t}$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 2046. | | |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | 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 |
| 200 | Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$. Using $b\bar{b}$ production in association with a Higgs boson decaying to $b\bar{b}$. Physical Review Letters, 2017, 119, 181804. | 7.8 | 49 |
| 201 | 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 |
| 202 | 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 |
| 203 | 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, 2016, 76, 658. | 3.9 | 48 |
| 204 | Measurements of the Total and Differential Higgs Boson Production Cross Sections Combining the $H \rightarrow b\bar{b}$ and $H \rightarrow \tau\tau$ Channels. Journal of High Energy Physics, 2018, 2018, 1. | 7.8 | 48 |
| 205 | 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 |
| 206 | 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 |
| 207 | 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 |
| 208 | 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 |
| 209 | Measurement of the top quark mass in the $t\bar{t} \rightarrow t\bar{t} \gamma$ channel. European Physical Journal C, 2019, 79, 1. | 3.9 | 47 |
| 210 | 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 |
| 211 | 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 |
| 212 | Measurement of the Higgs boson coupling properties in the $H \rightarrow Z\gamma^* \rightarrow 4\ell$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 46 |
| 213 | 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 |
| 214 | Measurements of gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow \tau\tau$ 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. | 4.1 | 46 |
| 215 | 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 |
| 216 | Measurement of the cross section for top-quark pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector using final states with two high-p _T leptons. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 45 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 217 | Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s} = 7$ TeV in dilepton final states with ATLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 459-477. | 3.9 | 45 |
| 218 | 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 |
| 219 | 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 |
| 220 | Measurement of the $t\bar{t}$ production cross section in the tau + jets channel using the ATLAS detector. European Physical Journal C, 2013, 73, 2328. | 3.9 | 45 |
| 221 | 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 |
| 222 | 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 |
| 223 | 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 |
| 224 | 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 |
| 225 | Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 45 |
| 226 | 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 |
| 227 | Search for the Standard Model Higgs boson in the $H \rightarrow \tau^+ \tau^-$ decay mode in $\sqrt{s} = 7$ TeV pp collisions with ATLAS. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 43 |
| 228 | 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 |
| 229 | 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 |
| 230 | 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 |
| 231 | Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \rightarrow 4\ell$ and $ZZ \rightarrow 2\ell 2\gamma$ final states with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 223-244. | 4.1 | 43 |
| 232 | 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 |
| 233 | 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 |
| 234 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 253 | Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- \gamma \gamma$ final states using 139 fb^{-1} of proton-proton collisions at $\sqrt{s} = 13, \text{TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 40 |
| 254 | Search for massive colored scalars in four-jet final states in $\sqrt{s}=7\text{-mbox{TeV}}$ proton-proton collisions with the ATLAS detector. European Physical Journal C, 2011, 71, 1. | 3.9 | 39 |
| 255 | Search for invisible decays of the Higgs boson produced in association with a hadronically decaying vector boson in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 337. | 3.9 | 39 |
| 256 | Search for flavour-changing neutral current top-quark decays to $\bar{q} Z$ in pp collision data collected with the ATLAS detector at $\sqrt{s}=8 \text{ TeV}$. European Physical Journal C, 2016, 76, 12. | 3.9 | 39 |
| 257 | Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s}=8, \text{TeV}$ $s = 8 \text{ TeV}$. European Physical Journal C, 2016, 76, 87. | 3.9 | 39 |
| 258 | Search for a Structure in the $B \rightarrow \mu^+ \mu^-$ Invariant Mass Spectrum with the ATLAS Experiment. Physical Review Letters, 2018, 120, 202007. | 3.9 | 39 |
| 259 | Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 39 |
| 260 | Search for strong production of supersymmetric particles in final states with missing transverse momentum and at least three b-jets at $\sqrt{s} = 8 \text{ TeV}$ proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 38 |
| 261 | Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 38 |
| 262 | Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 38 |
| 263 | Search for Higgs boson pair production in the $\gamma \gamma$ final state with 13 TeV pp collision data collected by the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 38 |
| 264 | Observation of electroweak W^+Z boson pair production in association with two jets in pp collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 469-497. | 4.1 | 38 |
| 265 | Measurements of WH and ZH production in the $H \rightarrow b \bar{b}$ decay channel in pp collisions at $\sqrt{s}=13, \text{TeV}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 38 |
| 266 | Search for second generation scalar leptoquarks in pp collisions at $\sqrt{s}=7\text{-mbox{TeV}}$ with the ATLAS detector. European Physical Journal C, 2012, 72, 1. | 3.9 | 37 |
| 267 | Search for bottom squark pair production in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 547. | 3.9 | 37 |
| 268 | Measurement of the W boson polarisation in $t \bar{t}$ events from pp collisions at $\sqrt{s} = 8 \text{ TeV}$ in the lepton+jets channel with ATLAS. European Physical Journal C, 2017, 77, 264. | 3.9 | 37 |
| 269 | Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 37 |
| 270 | Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017. | 1.2 | 37 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 271 | 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. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 37 |
| 272 | ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1. | 3.9 | 36 |
| 273 | Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 36 |
| 274 | Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment. European Physical Journal C, 2012, 72, 1. | 3.9 | 36 |
| 275 | Measurement of dijet cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 36 |
| 276 | Search for heavy lepton resonances decaying to a Z boson and a lepton in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 36 |
| 277 | 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 |
| 278 | Search for the Dimuon Decay of the Higgs Boson in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2017, 119, 051802. | 7.8 | 36 |
| 279 | Search for pair production of heavy vector-like quarks decaying to high-p T W bosons and b quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 36 |
| 280 | Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and lead-proton collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 36 |
| 281 | 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 |
| 282 | 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 |
| 283 | Search for Scalar Charm Quark Pair Production in $pp \rightarrow p \bar{p} + \text{lepton} + \text{jet} + \text{lepton} + \text{jet}$ Final States Using $\sqrt{s} = 13$ TeV pp Collisions with the ATLAS Detector. Physical Review Letters, 2015, 114, 161801. | 7.8 | 35 |
| 284 | 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 |
| 285 | 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 |
| 286 | Search for $W \rightarrow tb \rightarrow qqbb$ decays in $pp \rightarrow p p$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 165. | 3.9 | 35 |
| 287 | Search for Scalar Charm Quark Pair Production in $pp \rightarrow p \bar{p} + \text{lepton} + \text{jet} + \text{lepton} + \text{jet}$ Final States Using $\sqrt{s} = 13$ TeV pp Collisions with the ATLAS Detector. Physical Review Letters, 2015, 114, 161801. | 7.8 | 35 |
| 288 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 289 | Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector. European Physical Journal C, 2017, 77, 580. | 3.9 | 35 |
| 290 | A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at $\sqrt{s}=7\text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 34 |
| 291 | Multi-channel search for squarks and gluinos in $\sqrt{s}=7\text{TeV}$ pp collisions with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 2362. | 3.9 | 34 |
| 292 | Measurements of top-quark pair differential and double-differential cross-sections in the $t\bar{t}+b\bar{b}$ channel with pp collisions at $\sqrt{s}=13\text{TeV}$ using the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 34 |
| 293 | 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 $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 34 |
| 294 | Inclusive search for same-sign dilepton signatures in pp collisions at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 33 |
| 295 | Measurement of jet shapes in top-quark pair events at $\sqrt{s}=7\text{TeV}$ using the ATLAS detector. European Physical Journal C, 2013, 73, 2676. | 3.9 | 33 |
| 296 | Analysis of events with b-jets and a pair of leptons of the same charge in pp collisions at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 33 |
| 297 | Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at $\sqrt{s}=8\text{TeV}$. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 33 |
| 298 | Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 33 |
| 299 | Measurements of $\tilde{\chi}(2S)$ and $\tilde{\chi}(3872) \rightarrow \tilde{\chi} + \tilde{\chi}$ production in pp collisions at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 33 |
| 300 | Measurement of the Soft-Drop Jet Mass in pp collisions at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. Physical Review Letters, 2018, 121, 092001. | 7.8 | 33 |
| 301 | Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 33 |
| 302 | Search for invisible Higgs boson decays in vector boson fusion at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 499-519. | 3.9 | 33 |
| 303 | Search for third generation scalar leptoquarks in pp collisions at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 32 |
| 304 | Measurement of $\tilde{\chi}_1^0$ and $\tilde{\chi}_2^0$ production with $\sqrt{s}=7\text{TeV}$ pp collisions at ATLAS. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 32 |
| 305 | Determination of the strong coupling constant α_s from transverse energy correlations in multijet events at $\sqrt{s}=8\text{TeV}$. European Physical Journal C, 2017, 77, 872. | 3.9 | 32 |
| 306 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $t\bar{t}+b\bar{b}$ decay channel at $\sqrt{s}=13\text{TeV}$. European Physical Journal C, 2020, 80, 1. | 3.9 | 32 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 307 | Measurements of underlying-event properties using neutral and charged particles in pp collisions at $\sqrt{s}=900$ GeV and $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1. | 3.9 | 31 |
| 308 | Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in $\sqrt{s}=7$ TeV proton-proton collisions. European Physical Journal C, 2012, 72, 1. | 3.9 | 31 |
| 309 | Measurement of the differential cross-section of B + meson production in pp collisions at $\sqrt{s}=7$ TeV at ATLAS. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 31 |
| 310 | Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 565. | 3.9 | 31 |
| 311 | Measurement of the Z Production Cross Section in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 7.8 | 31 |
| 312 | A search for prompt lepton-jets in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 31 |
| 313 | Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\mu$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 31 |
| 314 | Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb ⁻¹ of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 31 |
| 315 | Search for W production in $\mu\mu$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 31 |
| 316 | Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 31 |
| 317 | Evidence of W Production in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 7.8 | 30 |
| 318 | Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 79. | 3.9 | 30 |
| 319 | 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 |
| 320 | Study of hard double-parton scattering in four-jet events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 30 |
| 321 | Charged-particle distributions in pp interactions at $\sqrt{s}=8$ TeV measured with the ATLAS detector. European Physical Journal C, 2016, 76, 403. | 3.9 | 30 |
| 322 | Searches for the $Z\bar{Z}$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 30 |
| 323 | Study of $WW\gamma$ and $WZ\gamma$ production in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 646. | 3.9 | 30 |
| 324 | Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 30 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 325 | Searches for third-generation scalar leptoquarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 30 |
| 326 | Evidence for $t\bar{t}$ production in the multilepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 30 |
| 327 | Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 29 |
| 328 | 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 |
| 329 | Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 29 |
| 330 | Study of the material of the ATLAS inner detector for Run 2 of the LHC. Journal of Instrumentation, 2017, 12, P12009-P12009. | 1.2 | 29 |
| 331 | Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 29 |
| 332 | Searches for heavy ZZ and ZW resonances in the $\gamma\gamma$, γq and $\gamma\gamma$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 29 |
| 333 | Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 29 |
| 334 | Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at $s = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 28 |
| 335 | Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$. European Physical Journal C, 2017, 77, 804. | 3.9 | 28 |
| 336 | Measurement of $WW/WZ \rightarrow \ell u q^{\prime}$ production with the hadronically decaying boson reconstructed as one or two jets in pp collisions at $\sqrt{s}=8$ TeV with ATLAS, and constraints on anomalous gauge couplings. European Physical Journal C, 2017, 77, 563. | 3.9 | 28 |
| 337 | Measurement of the Drell-Yan triple-differential cross section in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 28 |
| 338 | Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow a a \rightarrow 4b$ channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 28 |
| 339 | Search for long-lived neutral particles in pp collisions at $\sqrt{s} = 13$ TeV that decay into displaced hadronic jets in the ATLAS calorimeter. European Physical Journal C, 2019, 79, 1. | 3.9 | 28 |
| 340 | In situ calibration of large-radius jet energy and mass in 13 TeV proton-proton collisions with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 28 |
| 341 | Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 28 |
| 342 | Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 28 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 343 | Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2020, 124, 222002. | 7.8 | 28 |
| 344 | Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 28 |
| 345 | Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2015, 114, 221802. | 7.8 | 27 |
| 346 | Search for metastable heavy charged particles with large ionisation energy loss in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS experiment. <i>European Physical Journal C</i> , 2015, 75, 407. | 3.9 | 27 |
| 347 | Measurement of the $WW + WZ$ cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1. | 4.7 | 27 |
| 348 | Measurements of top-quark pair differential cross-sections in the e^+e^- channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 292. | 3.9 | 27 |
| 349 | Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 625. | 3.9 | 27 |
| 350 | Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 4.7 | 27 |
| 351 | Measurement of the top-quark mass in $t\bar{t} + 1$ -jet events collected with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 4.7 | 27 |
| 352 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a τ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1. | 4.7 | 27 |
| 353 | Measurements of electroweak W^+W^-jj production and constraints on anomalous gauge couplings with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 474. | 3.9 | 26 |
| 354 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $ell\bar{ell}bb$ and $ell\bar{ell}WW$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 26 |
| 355 | A search for $\rho(770)$ resonances with the ATLAS detector in 2.05 fb^{-1} of proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 2083. | 3.9 | 25 |
| 356 | Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with the ATLAS detector. <i>European Physical Journal C</i> , 2012, 72, 1. | 3.9 | 25 |
| 357 | Measurement of the low-mass Drell-Yan differential cross section at $\sqrt{s} = 7$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1. | 4.7 | 25 |
| 358 | Determination of the top-quark pole mass using $t\bar{t} + 1$ -jet events collected with the ATLAS experiment in 7 TeV pp collisions. <i>Journal of High Energy Physics</i> , 2015, 2015, 1. | 4.7 | 25 |
| 359 | Searches for heavy diboson resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 4.7 | 25 |
| 360 | Search for triboson $W^+W^-W^{\pm}$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 141. | 3.9 | 25 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 361 | Operation and performance of the ATLAS Tile Calorimeter in Run 1. <i>European Physical Journal C</i> , 2018, 78, 987. | 3.9 | 25 |
| 362 | A strategy for a general search for new phenomena using data-derived signal regions and its application within the ATLAS experiment. <i>European Physical Journal C</i> , 2019, 79, 1. | 3.9 | 25 |
| 363 | Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2020, 124, 031802. | 7.8 | 25 |
| 364 | 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. <i>European Physical Journal C</i> , 2016, 76, 605. | 3.9 | 24 |
| 365 | Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s} = 13 \text{ TeV}$ pp collisions. <i>European Physical Journal C</i> , 2016, 76, 517. | 3.9 | 24 |
| 366 | Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1. | 3.9 | 24 |
| 367 | Measurement of fiducial and differential W^+W^- production cross-sections at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1. | 3.9 | 24 |
| 368 | Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 4.7 | 24 |
| 369 | A measurement of the ratio of the production cross sections for W^+W^- and ZZ bosons in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , 2014, 74, 3168. | 3.9 | 23 |
| 370 | Measurement of the underlying event in jet events from 7 TeV proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2014, 74, 1. | 3.9 | 23 |
| 371 | Determination of the Ratio of b -Quark Fragmentation Fractions R_b and R_c in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>Physical Review Letters</i> , 2015, 115, 262001. | 7.8 | 23 |
| 372 | A search for high-mass resonances decaying to $\bar{l}l, \bar{l}l, \bar{l}l$ in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 1. | 4.7 | 23 |
| 373 | Measurement of three-jet production cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 228. | 3.9 | 23 |
| 374 | Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 541. | 3.9 | 23 |
| 375 | Measurement of the inclusive jet cross-sections in proton-proton collisions at $s = 8 \text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 4.7 | 23 |
| 376 | Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp collisions in ATLAS. <i>Physical Review Letters</i> , 2019, 123, 042001. | 7.8 | 23 |
| 377 | 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 $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2021, 2021, 1. | 4.7 | 23 |
| 378 | AtFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , 2022, 6, 1. | 2.9 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 379 | Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at $\sqrt{s}=7 \text{ TeV}$. European Physical Journal C, 2012, 72, 1. | 3.9 | 22 |
| 380 | Measurement of the centrality and pseudorapidity dependence of the integrated elliptic flow in lead-lead collisions at $\sqrt{s_{NN}}=2.76 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2014, 74, 2982. | 3.9 | 22 |
| 381 | 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 $\sqrt{s} = 8 \text{ TeV}$ using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 22 |
| 382 | Measurement of the $t\bar{t} \rightarrow WZ$ and $t\bar{t} \rightarrow Z$ production cross sections in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 22 |
| 383 | 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 |
| 384 | Search for pair production of heavy vector-like quarks decaying into high- p_T W bosons and top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 22 |
| 385 | Measurements of top-quark pair spin correlations in the $e\mu$ channel at $\sqrt{s} = 13 \text{ TeV}$ using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 22 |
| 386 | Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 22 |
| 387 | Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS. Physical Review Letters, 2020, 125, 261801. | 7.8 | 22 |
| 388 | Measurement of \tilde{I} , polarization in $W \rightarrow \tilde{I}, \tilde{I}^*/2$ decays with the ATLAS detector in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2012, 72, 2062. | 3.9 | 21 |
| 389 | Measurement of the production cross-section of $\tilde{I}(2S) \rightarrow \tilde{I}^*(\tilde{I}^*/4 + \tilde{I}^*/4) \rightarrow \tilde{I} + \tilde{I}^*$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ at ATLAS. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 21 |
| 390 | Determination of spin and parity of the Higgs boson in the $WW \rightarrow e\mu u \bar{u} WW \rightarrow \tilde{I}^* \tilde{I}^*/4 \tilde{I}^*/4$ decay channel with the ATLAS detector. European Physical Journal C, 2015, 75, 231. | 3.9 | 21 |
| 391 | The performance of the jet trigger for the ATLAS detector during 2011 data taking. European Physical Journal C, 2016, 76, 526. | 3.9 | 21 |
| 392 | Search for the Standard Model Higgs boson decaying into $b\bar{b}$ produced in association with top quarks decaying hadronically in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 21 |
| 393 | Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 21 |
| 394 | Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, . | 3.9 | 21 |
| 395 | Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ and decaying into collimated leptons or light hadrons with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 21 |
| 396 | Search for a Heavy Neutral Particle Decaying to $e\tilde{I}^*/4$ or $e\tilde{I}^*$, or $e\tilde{I}^*/4$ with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 7.8 | 20 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 397 | 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 |
| 398 | 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 |
| 399 | 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 |
| 400 | Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s} = 13$ TeV with ATLAS. European Physical Journal C, 2018, 78, 186. | 3.9 | 20 |
| 401 | Search for diboson resonances in hadronic final states in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 20 |
| 402 | Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector. Physical Review Letters, 2020, 125, 221802. | 7.8 | 20 |
| 403 | 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 |
| 404 | Measurement of k_T splitting scales in $W\bar{t}\bar{a}, \bar{t}\bar{t}$ events at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2013, 73, 2432. | 3.9 | 19 |
| 405 | Search for flavour-changing neutral current top quark decays $t \rightarrow Hq$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-65. | 4.7 | 19 |
| 406 | Addendum to "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, 2016, 76, 1. | 3.9 | 19 |
| 407 | Search for the production of single vector-like and excited quarks in the Wt final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 19 |
| 408 | Probing lepton flavour violation via neutrinoless $\nu\bar{\nu} \rightarrow 3\mu$, $\nu\bar{\nu} \rightarrow 3e$ decays with the ATLAS detector. European Physical Journal C, 2016, 76, 232. | 3.9 | 19 |
| 409 | Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ using the ATLAS detector. European Physical Journal C, 2017, 77, 765. | 3.9 | 19 |
| 410 | Measurement of the production cross-section of a single top quark in association with a Z boson in proton-proton collisions at 13 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 557-577. | 4.1 | 19 |
| 411 | Prompt and non-prompt J/ψ elliptic flow in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 784. | 3.9 | 19 |
| 412 | Search for top-quark decays $t \rightarrow Hq$ with 36 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 19 |
| 413 | 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 |
| 414 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 415 | Search for an excess of events with an identical flavour lepton pair and significant missing transverse momentum in $\sqrt{s}=7$ TeV proton-proton collisions with the ATLAS detector. European Physical Journal C, 2011, 71, 1. | 3.9 | 18 |
| 416 | Search for top quark decays $t \rightarrow qH$, with $H \rightarrow \tau\tau$, in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 18 |
| 417 | Measurements of inclusive and differential fiducial cross-sections of $t\bar{t}$ production with additional heavy-flavour jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 18 |
| 418 | Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 18 |
| 419 | Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 18 |
| 420 | Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 18 |
| 421 | Search for anomalous production of prompt like-sign lepton pairs at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 17 |
| 422 | Measurement of the top quark charge in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 17 |
| 423 | Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 17 |
| 424 | Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at $\sqrt{s}=7$ TeV. European Physical Journal C, 2015, 75, 158. | 3.9 | 17 |
| 425 | Identification of high transverse momentum top quarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 17 |
| 426 | Probing the Wtb vertex structure in t-channel single-top-quark production and decay in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 17 |
| 427 | Search for supersymmetry in events with b-tagged jets and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 17 |
| 428 | Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $\sqrt{s} = 13$ TeV with ATLAS. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 429 | Direct top-quark decay width measurement in the $t \rightarrow \tau \bar{\nu}_\tau$ lepton+jets channel at $\sqrt{s}=8$ TeV with the ATLAS experiment. European Physical Journal C, 2018, 78, 129. | 3.9 | 17 |
| 430 | Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 431 | Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 432 | Measurements of W and Z boson production in pp collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 433 | Measurement of W^{\pm} boson production in Pb+Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ -ext {TeV}ext {V} with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 17 |
| 434 | 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 |
| 435 | Search for the $HH \rightarrow \gamma\gamma$ 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 |
| 436 | Measurement of Azimuthal Anisotropy of Muons from Charm and Bottom Hadrons in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2020, 124, 082301. | 7.8 | 17 |
| 437 | Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s} = 13$, {ext {TeV}} with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 17 |
| 438 | Longitudinal Flow Decorrelations in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2021, 126, 022301. | 7.8 | 17 |
| 439 | Search for displaced top quarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review Letters, 2021, 127, 051802. | 7.8 | 17 |
| 440 | Search for a fermiophobic Higgs boson in the diphoton decay channel with the ATLAS detector. European Physical Journal C, 2012, 72, 1. | 3.9 | 16 |
| 441 | Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $s = 8$ TeV proton-proton collisions. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 16 |
| 442 | Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 16 |
| 443 | Top-quark mass measurement in the all-hadronic $t \bar{t} \rightarrow \gamma\gamma$ decay channel at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 16 |
| 444 | Measurement of colour flow using jet-pull observables in $t \bar{t} \rightarrow \gamma\gamma$ events with the ATLAS experiment at $\sqrt{s} = 13$, {hbox {TeV}} $s = 13$ TeV. European Physical Journal C, 2018, 78, 847. | 3.9 | 16 |
| 445 | Probing the Quantum Interference between Singly and Doubly Resonant Top-Quark Production in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2018, 121, 152002. | 7.8 | 16 |
| 446 | Search for exclusive Higgs and Z boson decays to $\tilde{\chi}_1^0 \tilde{\chi}_1^0$ and $\tilde{\chi}_1^0 \tilde{\chi}_2^0$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 16 |
| 447 | Measurement of differential cross sections and W^+ / W^0 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 |
| 448 | Search for diphoton events with large missing transverse energy with 36 pb^{-1} of 7 TeV proton-proton collision data with the ATLAS detector. European Physical Journal C, 2011, 71, 1. | 3.9 | 15 |
| 449 | Measurements of the pseudorapidity dependence of the total transverse energy in proton-proton collisions at $\sqrt{s} = 7$ TeV with ATLAS. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 15 |
| 450 | Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector. European Physical Journal C, 2012, 72, 1. | 3.9 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 451 | Search for direct chargino production in anomaly-mediated supersymmetry breaking models based on a disappearing-track signature in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 4.7 | 15 |
| 452 | Measurement of the flavour composition of dijet events in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2013, 73, 1. | 3.9 | 15 |
| 453 | Search for W production with a light Higgs boson decaying to prompt electron-jets in proton-proton collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. <i>New Journal of Physics</i> , 2013, 15, 043009. | 2.9 | 15 |
| 454 | Measurement of event-shape observables in $Z \rightarrow e^+e^- \gamma$ events in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016, 76, 375. | 3.9 | 15 |
| 455 | 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 $s = 8\text{ TeV}$. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 4.7 | 15 |
| 456 | Search for strong gravity in multijet final states produced in pp collisions at $s = 13\text{ TeV}$ using the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 4.7 | 15 |
| 457 | Measurement of the cross-section for electroweak production of dijets in association with a Z boson in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 775, 206-220. | 4.7 | 15 |
| 458 | Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 15 |
| 459 | Search for scalar resonances decaying into $\tau^+\tau^-$ in events with and without b-tagged jets produced in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 4.7 | 15 |
| 460 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 15 |
| 461 | Test of the universality of \tilde{g} , and $\tilde{g}/4$ lepton couplings in W-boson decays with the ATLAS detector. <i>Nature Physics</i> , 2021, 17, 813-818. | 16.7 | 15 |
| 462 | Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8\text{ TeV}$ using the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1. | 3.9 | 15 |
| 463 | Search for a heavy neutral particle decaying into an electron and a muon using 1 fb ⁻¹ of ATLAS data. <i>European Physical Journal C</i> , 2011, 71, 1. | 3.9 | 14 |
| 464 | A search for top squarks with R-parity-violating decays to all-hadronic final states with the ATLAS detector in $s = 8\text{ TeV}$ proton-proton collisions. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 4.7 | 14 |
| 465 | Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 4.7 | 14 |
| 466 | Measurement of charged-particle distributions sensitive to the underlying event in $s = 13\text{ TeV}$ proton-proton collisions with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 4.7 | 14 |
| 467 | Studies of $Z\tilde{\chi}^0_1$ production in association with a high-mass dijet system in pp collisions at $s = 8\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 4.7 | 14 |
| 468 | Measurement of $VH, \mathbb{H} \rightarrow \mathbb{H} \overline{\mathbb{H}}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 4.7 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 469 | Measurements of inclusive and differential fiducial cross-sections of γ production in leptonic final states at $\sqrt{s}=13\text{-ext}\{\text{TeV}\}$ in ATLAS. European Physical Journal C, 2019, 79, 1. | 3.9 | 14 |
| 470 | Search for bottom-quark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 14 |
| 471 | Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 14 |
| 472 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s}=13\text{,ext}\{\text{TeV}\}$. European Physical Journal C, 2021, 81, 1. | 3.9 | 14 |
| 473 | Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at $s=13\hat{\epsilon}\%{\hat{\epsilon}}\%{\text{TeV}}$ Using the ATLAS Detector. Physical Review Letters, 2021, 127, 141801. | 7.8 | 14 |
| 474 | Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $\sqrt{\text{mathrm}\{s\}} = 13\text{ TeV}$ using the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 14 |
| 475 | Search for \overline{t} resonances in fully hadronic final states in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 14 |
| 476 | Measurement of the c-jet mistagging efficiency in t events using pp collision data at $\sqrt{s}=13\text{ext}\{\text{TeV}\}$ collected with the ATLAS detector. European Physical Journal C, 2022, 82, . | 3.9 | 14 |
| 477 | Search for R-parity-violating supersymmetry in events with four or more leptons in $\sqrt{s}=7\text{,mathrm}\{\text{TeV}\}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 13 |
| 478 | Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at $\sqrt{s} = 7\text{-mathrm}\{\text{TeV}\}$. European Physical Journal C, 2012, 72, 1. | 3.9 | 13 |
| 479 | 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 |
| 480 | Search for lepton flavour violation in the $e\gamma$ continuum with the ATLAS detector in $\sqrt{s} = 7\text{-mbox}\{\text{TeV}\}$ pp collisions at the LHC. European Physical Journal C, 2012, 72, 2040. | 3.9 | 13 |
| 481 | The differential production cross section of the $\phi(1020)$ meson in $\sqrt{s} = 7\hat{\text{A}}\text{TeV}$ pp collisions measured with the ATLAS detector. European Physical Journal C, 2014, 74, 2895. | 3.9 | 13 |
| 482 | Search for Higgs and Z Boson Decays to $\tilde{\chi}$ with the ATLAS Detector. Physical Review Letters, 2016, 117, 111802. | 7.8 | 13 |
| 483 | Measurement of the CP-violating phase $\arg(\tilde{\kappa}_s)$ 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 |
| 484 | Search for new phenomena with photon+jet events in proton-proton collisions at $s = 13\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 13 |
| 485 | 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 |
| 486 | Measurements of top-quark pair to Z-boson cross-section ratios at $s = 13\sqrt{s} = 13, 8, 7\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 487 | Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at \sqrt{s} s. European Physical Journal C, 2018, 78, 102. | 3.9 | 13 |
| 488 | Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 13 |
| 489 | Measurement of the CP-violating phase ϕ_s in $B_{s^0} \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV. European Physical Journal C, 2021, 81, . | 3.9 | 13 |
| 490 | 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 |
| 491 | Search for long-lived charginos based on a disappearing-track signature using 136 fb ⁻¹ of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, . | 3.9 | 13 |
| 492 | Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 12 |
| 493 | 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 |
| 494 | Measurement of the $b\bar{b}$ dijet cross section in pp collisions at $\sqrt{s} = 7$ s = 7 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 670. | 3.9 | 12 |
| 495 | Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=13$ s = 13 TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 144. | 3.9 | 12 |
| 496 | Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $\sqrt{s}=13$ TeV proton-proton collision data. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 12 |
| 497 | Measurement of the four-lepton invariant mass spectrum in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 12 |
| 498 | Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 7.8 122, 151801. | | 12 |
| 499 | 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 |
| 500 | 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 |
| 501 | Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s_{\text{NN}}}=8.16$ TeV $p+Pb$ collisions with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 12 |
| 502 | 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 |
| 503 | 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 |
| 504 | Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 505 | 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 |
| 506 | Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1. | 3.9 | 12 |
| 507 | 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 |
| 508 | Measurement of $W\bar{1}^3$ and $Z\bar{1}^3$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 11 |
| 509 | 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 |
| 510 | 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 |
| 511 | Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV recorded with the ATLAS detector. European Physical Journal C, 2016, 76, 683. | 3.9 | 11 |
| 512 | 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 |
| 513 | Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 11 |
| 514 | 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 |
| 515 | Two-particle azimuthal correlations in photonuclear ultraperipheral collisions at 5.02 TeV with ATLAS. Physical Review C, 2021, 104, . | 2.9 | 11 |
| 516 | Exclusive dimuon production in ultraperipheral collisions at $\sqrt{s} = 5.02$ TeV with ATLAS. Physical Review C, 2021, 104, . | 2.9 | 11 |
| 517 | 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 |
| 518 | A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeV pp collisions. Journal of Instrumentation, 2016, 11, P11020-P11020. | 1.2 | 10 |
| 519 | 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 |
| 520 | 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 |
| 521 | Measurement of the $Z\gamma \rightarrow u\bar{u}\gamma$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 10 |
| 522 | Measurement of the inclusive and fiducial $t\bar{t}\hat{A}$ production cross-sections in the. European Physical Journal C, 2018, 78, 487. | 3.9 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 523 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W\hat{\pm}$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 10 |
| 524 | Measurement of J/ψ production in association with a $W\hat{\pm}$ boson with pp data at 8 TeV. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 10 |
| 525 | Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties. Journal of Instrumentation, 2017, 12, P05002-P05002. | 1.2 | 10 |
| 526 | 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 |
| 527 | 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 |
| 528 | 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 |
| 529 | 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 |
| 530 | Measurement of the γ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 9 |
| 531 | 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 |
| 532 | Measurement of the ZZ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ZZ $\hat{+}$, $\hat{+}$, $\hat{+}$, $\hat{+}$ and ZZ $\hat{+}$, $\hat{+}$, $\hat{+}$, $\hat{+}$ $\hat{+}$ decay channels with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 9 |
| 533 | Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 9 |
| 534 | Combinations of single-top-quark production cross-section measurements and $ f_{LVtb} $ determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experiments. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 9 |
| 535 | 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 |
| 536 | Measurement of the $Z(\hat{+}, \hat{+})^3$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 9 |
| 537 | 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 |
| 538 | Evidence for electroweak production of two jets in association with a Z pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 2021, 1. | 4.1 | 9 |
| 539 | Measurement of the relative width difference of the $B^0 \hat{-} \hat{+}^0$ system with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 8 |
| 540 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 541 | Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 8 |
| 542 | Analysis of the Wtb vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the t-channel at $s = 8 \sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 8 |
| 543 | Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 8 |
| 544 | Measurement of W^{\pm} -boson and Z-boson production cross-sections in pp collisions at $\sqrt{s}=2.76$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 8 |
| 545 | Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 8 |
| 546 | Measurements of $W+W\bar{a}^{\sim} + \hat{a}\%{\text{¥}} 1$ 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 |
| 547 | Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. Nature Physics, 2021, 17, 819-825. | 16.7 | 8 |
| 548 | 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 |
| 549 | Reconstruction and identification of boosted $di\bar{l}_{\tau}$ 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 |
| 550 | 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 $13\sqrt{s}$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, 1. | 3.9 | 8 |
| 551 | Search for dark matter candidates at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 803, 277-281. | 4.1 | 8 |
| 552 | Search for Lepton-Flavor Violation in $Z \rightarrow \tau\tau$ Decays with the ATLAS Detector. Physical Review Letters, 2021, 127, 271801. | 7.8 | 8 |
| 553 | Measurement of σ_{au} , polarisation in $Z/\gamma \rightarrow \text{au au}$. European Physical Journal C, 2018, 78, 163. | 3.9 | 7 |
| 554 | Combination of inclusive and differential $\overline{\text{mathrm}}{\text{t}}$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 7 |
| 555 | 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 |
| 556 | Medium-Induced Modification of Z -Tagged Charged Particle Yields in $Pb\text{-}Pb$ Collisions at 5.02 TeV with the ATLAS Detector. Physical Review Letters, 2021, 126, 072301. | 7.8 | 7 |
| 557 | 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 |
| 558 | Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1. | 3.9 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 559 | 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, . | 3.9 | 7 |
| 560 | 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 |
| 561 | Measurement of ZZ production in the $e^+e^- \rightarrow \gamma^*/Z \rightarrow e^+e^-$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 6 |
| 562 | 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 |
| 563 | Search for Higgs boson production in association with a Dark Higgs Boson Decaying into W^+W^- or ZZ in Fully Hadronic Final States from $Z \rightarrow e^+e^-$. Physical Review Letters, 2021. | 7.8 | 6 |
| 564 | Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2021, 16, P07029. | 1.2 | 6 |
| 565 | Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at $s=13$ TeV with the ATLAS Detector. Physical Review Letters, 2020, 125, 251802. | 7.8 | 6 |
| 566 | Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1. | 3.9 | 6 |
| 567 | Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at $\sqrt{s}=8$ and 13 TeV. European Physical Journal C, 2020, 80, 1. | 3.9 | 5 |
| 568 | 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 |
| 569 | The ATLAS Fast Tracker system. Journal of Instrumentation, 2021, 16, P07006. | 1.2 | 5 |
| 570 | 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 |
| 571 | Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb ⁻¹ of ATLAS data. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 5 |
| 572 | Emulating the impact of additional proton-proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. Computing and Software for Big Science, 2022, 6, 1. | 2.9 | 5 |
| 573 | 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 |
| 574 | Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 4 |
| 575 | Measurement of jet activity in top quark events using the e^+e^- final state with two b-tagged jets in pp collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 4 |
| 576 | Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment at the LHC. European Physical Journal C, 2019, 79, . | 3.9 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 577 | Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 4 |
| 578 | Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger. Journal of Instrumentation, 2020, 15, P11016-P11016. | 1.2 | 4 |
| 579 | 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 |
| 580 | 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 |
| 581 | Measurement of K_S^0 and Λ^0 production in $pp \rightarrow \tau^+ \tau^-$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 4 |
| 582 | Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \mu^{\pm} \nu_{\mu} \rightarrow \mu^{\pm} \pi^{\pm} \nu_{\mu} \nu_{\tau}$ events in Run 2 data. European Physical Journal C, 2022, 82, 1. | 3.9 | 4 |
| 583 | 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 |
| 584 | 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 |
| 585 | Measurement of the k_t splitting scales in $Z \rightarrow \tau^+ \tau^-$ events in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 3 |
| 586 | Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 3 |
| 587 | Measurements of inclusive and differential cross-sections of combined $\overline{t} \gamma$ and $t W^{\pm}$ production in the $e^{\pm} \nu_e$ channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 3 |
| 588 | Measurement of isolated-photon plus two-jet production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 3 |
| 589 | Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 3 |
| 590 | Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents. Journal of Instrumentation, 2021, 16, P08025. | 1.2 | 3 |
| 591 | 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 |
| 592 | Measurement of b-quark fragmentation properties in jets using the decay $B^{\pm} \rightarrow J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 3 |
| 593 | Two-particle Bose-Einstein correlations in pp collisions at $\sqrt{s} = 13$ TeV measured with the ATLAS detector at the LHC. European Physical Journal C, 2022, 82, . | 3.9 | 3 |
| 594 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 595 | Measurement of the $(\overline{t}t)$ 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 |
| 596 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $(\sqrt{s}=8\text{--})$ TeV with the ATLAS detector. , 2015, 75, 1. | | 2 |
| 597 | 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 |
| 598 | Measurement of the energy asymmetry in $t\overline{t}j$ production at 13 TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, . | 3.9 | 2 |
| 599 | Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b -jets in 36 fb^{-1} of $(\sqrt{s}=13)$ TeV pp collisions with the ATLAS detector. , 2018, 2018, 1. | | 1 |
| 600 | 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 |
| 601 | Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $(\sqrt{s}=8,\text{TeV})$ with the ATLAS detector. , 2016, 76, 1. | | 1 |
| 602 | Measurement of the W -boson mass in pp collisions at $(\sqrt{s}=7, \text{TeV})$ with the ATLAS detector. , 2018, 78, 1. | | 1 |
| 603 | Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $(\sqrt{s}=13,\text{TeV})$. , 2018, 78, 1. | | 1 |
| 604 | Operation and performance of the ATLAS semiconductor tracker in LHC Run 2. Journal of Instrumentation, 2022, 17, P01013. | 1.2 | 1 |
| 605 | A search for an unexpected asymmetry in the production of e^+e^- and e^+e^- pairs in proton-proton collisions recorded by the ATLAS detector at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 830, 137106. | 4.1 | 1 |