

Giulio Aielli

List of Publications by Year in descending order

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1,119
papers

72,343
citations

1094

112
h-index

1489

219
g-index

1145
all docs

1145
docs citations

1145
times ranked

18860
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. | 1.5 | 6,386 |
| 2 | Review of Particle Physics. Physical Review D, 2018, 98, . | 1.6 | 5,390 |
| 3 | Review of Particle Physics. Progress of Theoretical and Experimental Physics, 2020, 2020, . | 1.8 | 3,177 |
| 4 | The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003. | 0.5 | 1,752 |
| 5 | The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874. | 1.4 | 1,187 |
| 6 | Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV. Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 252303. | 2.9 | 1,062 |
| 7 | Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 252303. | 2.9 | 581 |
| 8 | Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317. | 1.4 | 489 |
| 9 | 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. | 1.6 | 473 |
| 10 | Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s}=13$ TeV. European Physical Journal C, 2016, 76, 292. | 1.4 | 453 |
| 11 | Observation of Associated Near-Side and Away-Side Long-Range Correlations in pp Collisions with the ATLAS Detector. Physical Review Letters, 2013, 110, 182302. | 1.4 | 431 |
| 12 | FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623. | 1.2 | 424 |
| 13 | FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107. | 1.2 | 367 |
| 14 | Measurement of the azimuthal anisotropy for charged particle production in lead-lead collisions with the ATLAS detector. Physical Review C, 2012, 86, . | 1.1 | 365 |
| 15 | 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. | 1.4 | 362 |
| 16 | FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1. | 1.4 | 346 |
| 17 | Combined search for the Standard Model Higgs boson using up to 4.9 fb^{-1} of pp collision data at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 49-66. | 1.5 | 341 |
| 18 | Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490. | 1.4 | 325 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC. <i>New Journal of Physics</i> , 2011, 13, 053033. | 1.2 | 314 |
| 20 | Evidence for the spin-0 nature of the Higgs boson using ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 120-144. | 1.5 | 307 |
| 21 | Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s}=8$. <i>European Physical Journal C</i> , 2016, 76, 581. | 1.4 | 298 |
| 22 | Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 88-119. | 1.5 | 295 |
| 23 | Luminosity determination in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016, 76, 653. | 1.4 | 279 |
| 24 | Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s}=7$ and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , 2016, 76, 6. | 1.4 | 274 |
| 25 | Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 17. | 1.4 | 268 |
| 26 | Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , 2012, 72, 1. | 1.4 | 259 |
| 27 | Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2012, 72, 1. | 1.4 | 248 |
| 28 | Combined measurements of Higgs boson production and decay using up to 80% of proton-proton collision data at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2020, 101, . | 1.4 | 241 |
| 29 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 299. | 1.4 | 238 |
| 30 | Search for high-mass dilepton resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2014, 90, . | 1.6 | 237 |
| 31 | | | |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Measurement of Higgs boson production in the diphoton decay channel in $pp \rightarrow \gamma\gamma$ collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2014, 90, . | 1.6 | 214 |
| 38 | Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014, 74, 3130. | 1.4 | 213 |
| 39 | Jet energy resolution in proton-proton collisions at $\sqrt{s}=7$ TeV recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , 2013, 73, 2306. | 1.4 | 209 |
| 40 | Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014, 74, 2941. | 1.4 | 204 |
| 41 | Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ$ decay channel at $\sqrt{s} = 8$ TeV in $pp \rightarrow p p$ collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 45. | 1.4 | 197 |
| 42 | Search for high-mass dilepton resonances using 139 fb ⁻¹ of pp collision data collected at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 772, 100. | 1.5 | 196 |
| 43 | Lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 723, 1. | 1.5 | 195 |
| 44 | Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s} = 13$ TeV with the ATLAS Detector at the LHC. <i>Physical Review Letters</i> , 2016, 117, 182002. | 2.9 | 185 |
| 45 | Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 903. | 1.4 | 181 |
| 46 | Luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2011, 71, 1. | 1.4 | 179 |
| 47 | Measurement of the Higgs boson mass from the $H \rightarrow \gamma\gamma$ decay channel in $pp \rightarrow \gamma\gamma$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2016, 117, 182002. | 1.6 | 176 |
| 48 | Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 1.6 | 175 |
| 49 | Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 476. | 1.4 | 174 |
| 50 | Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. <i>European Physical Journal C</i> , 2014, 74, 1. | 1.4 | 172 |
| 51 | Search for the Standard Model Higgs Boson in the Diphoton Decay Channel with $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2016, 117, 182002. | 2.9 | 171 |
| 52 | Measurement with the ATLAS detector of multi-particle azimuthal correlations in $pp \rightarrow \gamma\gamma$ collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2018, 121, 181801. | 1.5 | 169 |
| 53 | Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 784, 173-191. | 1.5 | 169 |
| 54 | Search for Scalar Diphoton Resonances in the Mass Range 65-600 GeV with the ATLAS Detector in $pp \rightarrow \gamma\gamma$ collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2014, 113, 171801. | 2.9 | 168 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | 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. | 1.6 | 168 |
| 56 | Measurement of the differential cross-sections of inclusive, prompt and non-prompt $\mu^+\mu^-$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 662, 1-10. | 0.9 | 163 |
| 57 | Measurement of the inclusive $\mu^+\mu^-$ production cross-sections in the four-lepton channel in proton-proton collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, 012004. | 0.7 | 160 |
| 58 | Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Nuclear Physics B, 2014, 889, 486-548. | 0.9 | 155 |
| 59 | Measurements of Higgs boson production and couplings in the four-lepton channel in proton-proton collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, 012004. | 1.6 | 158 |
| 60 | Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2017, 96, 012001. | 1.6 | 157 |
| 61 | Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Nuclear Physics B, 2014, 889, 486-548. | 0.9 | 155 |
| 62 | 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. | 1.4 | 154 |
| 63 | Measurement of hard double-parton interactions in $\mu^+\mu^-$ + 2-jet events at $\sqrt{s} = 7$ TeV with the ATLAS detector. New Journal of Physics, 2013, 15, 033038. | 1.2 | 147 |
| 64 | Measurement of the top quark-pair production cross section with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1. | 1.4 | 146 |
| 65 | Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 145 |
| 66 | Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466. | 1.4 | 145 |
| 67 | Precision measurement and interpretation of inclusive W^+W^- production with ATLAS in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 367. | 1.4 | 145 |
| 68 | Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2018, 121, 211801. | 2.9 | 145 |
| 69 | Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 13$ TeV proton-proton collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 710, 67-85. | 1.4 | 143 |
| 70 | Measurement of the $t\bar{t}$ production cross-section using e^+e^- events with b -tagged jets in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109. | 1.4 | 143 |
| 71 | ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. European Physical Journal C, 2015, 75, 510. | 1.4 | 138 |
| 72 | 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, 2016, 359, 1-12. | 1.5 | 138 |

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|----|--|-----|-----------|
| 73 | Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 137 |
| 74 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 137 |
| 75 | 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. | 2.9 | 136 |
| 76 | Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 136 |
| 77 | Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. Physical Review D, 2012, 86, . | 1.6 | 135 |
| 78 | Measurements of the Nuclear Modification Factor for Jets in $Pb-Pb$ Collisions at $\sqrt{s}=2.76$ TeV. Physical Review C, 2014, 90, . | 2.9 | 135 |
| 79 | Measurement of event-plane correlations in pp collisions at $\sqrt{s}=7$ TeV. Physical Review C, 2014, 90, . | 1.6 | 134 |
| 80 | Charged-particle multiplicities in pp interactions at $\sqrt{s}=7$ TeV. Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 21-42. | 2.9 | 134 |
| 81 | Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801. | 2.9 | 133 |
| 82 | Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 199. | 1.4 | 132 |
| 83 | Measurement of the Z/\tilde{A} boson transverse momentum distribution in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 131 |
| 84 | Search for Invisible Decays of a Higgs Boson Produced in Association with a Z Boson in ATLAS. Physical Review Letters, 2014, 112, . | 2.9 | 130 |
| 85 | ATLAS b-jet identification performance and efficiency measurement with pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1. | 1.4 | 130 |
| 86 | Search for Dark Matter in Events with a Hadronically Decaying Z Boson and Missing Transverse Momentum in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. Physical Review Letters, 2014, 112, 041802. | 2.9 | 129 |
| 87 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s}=8$ TeV proton-proton collision data. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 128 |
| 88 | Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2014, 112, 041802. | 1.5 | 126 |
| 89 | Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \tau^-$ in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 126 |
| 90 | Search for pair-produced third-generation squarks decaying via charm quarks or in compressed nonsymmetric scenarios in pp collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2014, 90, . | 1.6 | 126 |

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|----|---|-----|-----------|
| 91 | Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13\text{ TeV}$ $s = 13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 995. | 1.4 | 125 |
| 92 | Electron and photon performance measurements with the ATLAS detector using the 2015–2017 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P12006-P12006. | 0.5 | 124 |
| 93 | Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s}=13\text{ TeV}$ pp collisions using the ATLAS detector. Physical Review D, 2020, 80, 1. | 1.4 | 124 |
| 94 | Evidence for Electroweak Production of $W\gamma$ Collisions at $\sqrt{s}=13\text{ TeV}$ pp collisions using the ATLAS detector. Physical Review D, 2019, 80, 1. | 2.9 | 123 |
| 95 | Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 349. | 1.4 | 123 |
| 96 | Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236. | 1.4 | 121 |
| 97 | Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. Physical Review D, 2011, 83, 1. | 1.6 | 121 |
| 98 | | | |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Measurement of inclusive jet and dijet cross sections in $\sqrt{s}=7$ TeV proton-proton collisions at the ATLAS detector. European Physical Journal C, 2011, 71, 1. Search for new phenomena in dijet events using $\frac{d\sigma}{d\eta d\eta' d\eta''}$ | 1.4 | 114 |
| 110 | Search for New Particles in Two-Jet Final States in $\sqrt{s}=7$ TeV Proton-Proton Collisions with the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 161801. | 1.6 | 114 |
| 111 | Measurement of the t-channel single top-quark production cross section in pp collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2017, 96, . | 2.9 | 113 |
| 112 | Measurement of the t-channel single top-quark production cross section in pp collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2017, 96, . | 1.5 | 113 |
| 113 | Ph | | |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Measurement of the inclusive jet cross-section in pp collisions at $\sqrt{s}=2.76$ TeV and comparison to the inclusive jet cross-section at $\sqrt{s}=7$ TeV using the ATLAS detector. European Physical Journal C, 2013, 73, 2509. | 1.4 | 105 |
| 128 | Search for Dark Matter Candidates and Large Extra Dimensions in Events with a Photon and Missing Transverse Momentum in pp Collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Collision Data at $\sqrt{s}=7$ TeV. $\sqrt{s}=7$ TeV. $\sqrt{s}=7$ TeV. | 2.9 | 105 |
| 129 | Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 102 |
| 130 | Search for heavy neutrinos and right-handed W bosons in events with two leptons and jets in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 2056. | 1.4 | 101 |
| 131 | Search for Higgs boson pair production in the ZZ final state using pp collision data at $\sqrt{s}=7$ TeV from the ATLAS detector. Physical Review Letters, 2015, 114, 081802. | 1.6 | 101 |
| 132 | Search for heavy ZZ resonances in the ZZ final states using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293. | 1.4 | 101 |
| 133 | Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 100 |
| 134 | Search for high-mass diphoton resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, . | 1.6 | 99 |
| 135 | Search for Higgs Boson Pair Production in the ZZ Final State Using pp Collision Data at $\sqrt{s}=7$ TeV from the ATLAS Detector. Physical Review Letters, 2015, 114, 081802. | 2.9 | 98 |
| 136 | Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 760, 760. | 1.5 | 98 |
| 137 | Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collision Data at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 760, 760. | 2.9 | 97 |
| 138 | Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collision Data at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 760, 760. | 2.9 | 97 |
| 139 | The ATLAS Inner Detector commissioning and calibration. European Physical Journal C, 2010, 70, 787-821. | 1.4 | 95 |
| 140 | Constraints on the off-shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector. European Physical Journal C, 2015, 75, 335. | 1.4 | 95 |
| 141 | Search for new phenomena in events with at least three photons collected in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 210. | 1.4 | 95 |
| 142 | Search for the Standard Model Higgs boson in the decay channel ZZ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 760, 760. | 1.5 | 93 |
| 143 | Constraints on the off-shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector. European Physical Journal C, 2015, 75, 335. | 1.5 | 93 |
| 144 | Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1. | 1.4 | 93 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Measurements of the W^+W^- production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82. | 1.4 | 92 |
| 146 | Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412. | 1.6 | 91 |
| 147 | Search for dark matter in events with a Z boson and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412. | 2.9 | 90 |
| 148 | Search for Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state from pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412. | 1.6 | 90 |
| 149 | Search for the $b\bar{b}\hat{A}^0$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 89 |
| 151 | Jet mass and substructure of inclusive jets in $\sqrt{s} = 7$; $\sqrt{s} = 8$ TeV pp collisions with the ATLAS experiment. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 88 |
| 152 | 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. | 1.6 | 88 |
| 153 | Measurement of W^+W^- and Z -boson production cross sections in pp collisions at $\sqrt{s} = 7$; $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 601-621. | 1.4 | 88 |
| 154 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195. | 1.4 | 87 |
| 155 | Measurement of multi-particle azimuthal correlations in pp , $p\bar{A}+A$ and low-multiplicity $Pb\bar{A}+A$ collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428. | 1.4 | 86 |
| 156 | Measurement of the correlation between flow harmonics of different order in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physical Review C, 2015, 92, . | 1.4 | 84 |
| 157 | Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 84 |
| 158 | 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. | 1.6 | 82 |
| 159 | Observation of an Excited B_c State with the ATLAS Detector. Physical Review Letters, 2014, 113, 212004. | 2.9 | 82 |
| 160 | Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1. | 1.4 | 82 |
| 161 | Search for Dilepton Resonances in pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2011, 107, 272002. | 2.9 | 81 |
| 162 | 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. | 1.6 | 81 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | 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. Observation of Spin Correlation in $pp \rightarrow t\bar{t} + \text{Events}$ from $\sqrt{s} = 8$ TeV collisions at ATLAS. European Physical Journal C, 2017, 77, 76. | 1.4 | 81 |
| 164 | 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. | 2.9 | 80 |
| 165 | Searches for electroweak production of supersymmetric particles with compressed mass spectra in $pp \rightarrow t\bar{t} + \text{Events}$ from $\sqrt{s} = 8$ TeV collisions at ATLAS. European Physical Journal C, 2017, 77, 393. | 1.4 | 80 |
| 166 | Search for production of WW/WZ resonances decaying to a lepton, neutrino and jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 209. | 1.6 | 80 |
| 167 | Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. European Physical Journal C, 2017, 77, 70. | 1.4 | 79 |
| 168 | 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. | 1.4 | 79 |
| 169 | Measurement of χ_{c0} production in pp collisions at ATLAS. Physical Review D, 2013, 87, . | 1.6 | 78 |
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