

# Antonio Amorim

## List of Publications by Year in descending order

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Version: 2024-02-01

853  
papers

59,327  
citations

1233

110  
h-index

2178

202  
g-index

879  
all docs

879  
docs citations

879  
times ranked

20735  
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  | The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.   | 0.5  | 1,752     |
| 3  | The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.  | 1.4  | 1,187     |
| 4  | Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. Nature, 2011, 476, 429-433.   | 13.7 | 1,114     |
| 5  | Combined Measurement of the Higgs Boson Mass in $pp$ Collisions at $\sqrt{s} = 7$ and $8$ TeV with the ATLAS and CMS Experiments. Physical Review Letters, 2015, 114, 191803.   | 2.9  | 1,062     |
| 6  | Molecular understanding of sulphuric acid-amine particle nucleation in the atmosphere. Nature, 2013, 502, 359-363.  | 13.7 | 774       |
| 7  | Detection of the gravitational redshift in the orbit of the star S2 near the Galactic centre massive black hole. Astronomy and Astrophysics, 2018, 615, L15.  | 2.1  | 593       |
| 8  | Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 252303.   | 2.9  | 581       |
| 9  | Ion-induced nucleation of pure biogenic particles. Nature, 2016, 533, 521-526.  | 13.7 | 528       |
| 10 | Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.  | 1.4  | 489       |
| 11 | A geometric distance measurement to the Galactic center black hole with 0.3% uncertainty. Astronomy and Astrophysics, 2019, 625, L10.   | 2.1  | 477       |
| 12 | 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       |
| 13 | Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. Science, 2014, 344, 717-721.  | 6.0  | 456       |
| 14 | 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       |
| 15 | Observation of Associated Near-Side and Away-Side Long-Range Correlations in $pp$ Collisions at the ATLAS Detector. Physical Review Letters, 2010, 110, 102001.   | 2.9  | 441       |
| 16 | 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       |
| 17 | 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       |
| 18 | First light for GRAVITY: Phase referencing optical interferometry for the Very Large Telescope Interferometer. Astronomy and Astrophysics, 2017, 602, A94.  | 2.1  | 333       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Combined search for the Standard Model Higgs boson using up to 4.9 fb <sup>-1</sup> 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, 719, 49-66. | 1.4 | 325       |
| 20 | Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.  | 1.4 | 325       |
| 21 | Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC. New Journal of Physics, 2011, 13, 053033.  | 1.2 | 314       |
| 22 | 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.  | 1.5 | 307       |
| 23 | Molecular understanding of atmospheric particle formation from sulfuric acid and large oxidized organic molecules. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17223-17228.  | 3.3 | 300       |
| 24 | Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 581.  | 1.4 | 298       |
| 25 | Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 88-119.  | 1.5 | 295       |
| 26 | Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653.   | 1.4 | 279       |
| 27 | 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.   | 1.4 | 274       |
| 28 | 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.  | 1.4 | 268       |
| 29 | Detection of orbital motions near the last stable circular orbit of the massive black hole Sgr A*. Astronomy and Astrophysics, 2018, 618, L10.   | 2.1 | 261       |
| 30 | Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.   | 1.4 | 259       |
| 31 | Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. European Physical Journal C, 2012, 72, 1.   | 1.4 | 248       |
| 32 | 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.   | 1.4 | 238       |
| 33 | 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. Physical Review D, 2014, 90, .  | 1.6 | 237       |
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| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Observation of Long Range Elliptic Azimuthal Anisotropies in $pp$ collisions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector. Physical Review Letters, 2010, 101, 23001.  | 2.9 | 228       |
| 38 | Search for new phenomena in the dijet mass distribution using $pp$ collision data at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physical Review D, 2015, 91, .  | 1.6 | 227       |
| 39 | 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.  | 1.4 | 218       |
| 40 | Measurement of Higgs boson production in the diphoton decay channel in $pp$ collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2014, 90, .   | 1.6 | 214       |
| 41 | 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.  | 1.4 | 213       |
| 42 | 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.   | 1.4 | 209       |
| 43 | Neutral molecular cluster formation of sulfuric acid-dimethylamine observed in real time under atmospheric conditions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15019-15024.  | 3.3 | 208       |
| 44 | 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.   | 1.4 | 204       |
| 45 | Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel at $\sqrt{s} = 8$ TeV in $pp$ collision data with the ATLAS detector. European Physical Journal C, 2016, 76, 45.   | 1.4 | 197       |
| 46 | 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, 2011, 606, 11803. | 1.5 | 195       |
| 47 | 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.   | 2.9 | 185       |
| 48 | Luminosity determination in $pp$ collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.   | 1.4 | 179       |
| 49 | Measurement of the Higgs boson mass from the $H \rightarrow \tau\tau$ decay channel with the ATLAS detector using $pp$ collision data at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 111803.   | 1.6 | 176       |
| 50 | Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2013, 2013, 1.   | 1.6 | 175       |
| 51 | Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. European Physical Journal C, 2015, 75, 476.   | 1.4 | 174       |
| 52 | Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1.   | 1.4 | 172       |
| 53 | Search for the Standard Model Higgs Boson in the Diphoton Decay Channel with the ATLAS detector using $pp$ collision data at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 111803.   | 2.9 | 171       |
| 54 | Measurement with the ATLAS detector of multi-particle azimuthal correlations in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 111803.   | 1.5 | 169       |





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|----|--|-----|-----------|
| 73 | 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       |
| 74 | 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       |
| 75 | Search for Supersymmetry Using Final States with One Lepton, Jets, and Missing Transverse Momentum with the ATLAS Detector in $pp$ Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2011, 106, 131802.             | 1.6 | 137       |
| 76 | Measurement of inclusive jet and dijet production in $pp$ collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. Physical Review D, 2012, 86, .  | 2.9 | 136       |
| 77 | Measurements of the Nuclear Modification Factor for Jets in $Pb-Pb$ Collisions at $\sqrt{s}=2.76$ TeV. Physical Review Letters, 2014, 112, 041802.   | 1.6 | 135       |
| 78 | Measurements of event-plane correlations in $pp$ collisions at $\sqrt{s}=7$ TeV. Physical Review C, 2014, 90, .  | 2.9 | 135       |
| 79 | 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       |
| 80 | Measurement of the $Z/\gamma^*$ 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       |
| 81 | 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       |
| 82 | Search for Dark Matter in Events with a Hadronically Decaying $W$ 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       |
| 83 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s}=8$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.       | 1.6 | 128       |
| 84 | ESPRESSO: the Echelle spectrograph for rocky exoplanets and stable spectroscopic observations. Proceedings of SPIE, 2010.  | 0.8 | 126       |
| 85 | Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $pp$ collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2014, 112, 041802.                    | 1.5 | 126       |
| 86 | Search for charged Higgs bosons decaying via $H \rightarrow \tau^+\tau^-$ in $t\bar{t}$ events using $pp$ collision data at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.       | 1.6 | 126       |
| 87 | Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in $pp$ collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2014, 90, .                               | 1.6 | 126       |
| 88 | Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in $pp$ collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2014, 90, .                               | 2.9 | 123       |
| 89 | Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349. | 1.4 | 123       |

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|----|--|-----|-----------|
| 91 | Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.  | 1.4 | 121       |
| 92 | Measurement of the inclusive isolated prompt photon cross section in $pp$ collisions at $\sqrt{s} = 7$ TeV at the ATLAS detector. Physical Review D, 2011, 83, . | 1.6 | 121       |
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| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | Search for squarks and gluinos in final states with jets and missing transverse momentum using $\sqrt{s} = 4.7$ TeV collisions with the ATLAS detector. Physical Review D, 2013, 87, 112.   | 1.6 | 112       |
| 110 | Measurement of long-range pseudorapidity correlations and azimuthal harmonics in $\sqrt{s} = 5.02$ TeV proton-lead collisions with the ATLAS detector. Physical Review C, 2014, 90, 014907.   | 1.1 | 111       |
| 111 | Search for a disappearing-track signature in $\sqrt{s} = 7$ TeV collisions at the ATLAS detector. Physical Review D, 2015, 92, 012004.  | 1.6 | 110       |
| 112 | Observation and measurement of Higgs boson decays to $WW$ at the ATLAS detector. Physical Review D, 2015, 92, 012004.   | 1.6 | 110       |
| 113 | Measurement of $\sigma_{\text{had}}(\gamma)$ production with a veto on additional central jet activity in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. European Physical Journal C, 2012, 72, 2043.                    | 1.4 | 109       |
| 114 | Combined search for the Standard Model Higgs boson in $\sqrt{s} = 7$ TeV collisions at the ATLAS detector. Physical Review D, 2012, 86, 012002.   | 1.6 | 109       |
| 115 | Search for a $\chi^0$ production in $\sqrt{s} = 7$ TeV lead-lead collisions at the ATLAS detector. Physics Letters. Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 363-382.                                | 1.5 | 109       |
| 116 | Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 5.   | 1.4 | 109       |
| 117 | Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.   | 1.6 | 108       |
| 118 | Search for squarks and gluinos in final states with jets and missing transverse momentum using $\sqrt{s} = 36$ TeV collisions with the ATLAS detector. Physical Review D, 2018, 97, 012004.   | 1.6 | 108       |
| 119 | Search for a $\chi^0$ production in $\sqrt{s} = 7$ TeV lead-lead collisions with the ATLAS detector at the LHC. Physics Letters. Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 294-312.                   | 1.5 | 107       |
| 120 | Reduced anthropogenic aerosol radiative forcing caused by biogenic new particle formation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12053-12058.                                     | 3.3 | 107       |
| 121 | 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       |
| 122 | Search for Dark Matter Candidates and Large Extra Dimensions in Events with a Photon and Missing Transverse Momentum in $\sqrt{s} = 7$ TeV Collision Data at the ATLAS detector. Physical Review D, 2013, 87, 012004.                   | 2.9 | 105       |
| 123 | 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       |
| 124 | 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       |
| 125 | Search for Higgs boson pair production in the $\sqrt{s} = 7$ TeV collisions with the ATLAS detector. Physical Review D, 2013, 87, 012004.   | 1.6 | 101       |
| 126 | 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       |



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|-----|--|-----|-----------|
| 127 | 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        |
| 128 | Effect of ions on sulfuric acid-water binary particle formation: 2. Experimental data and comparison with QC-normalized classical nucleation theory. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1752-1775.   | 1.2 | 99        |
| 129 | Search for Higgs Boson Pair Production in the Final State Using pp Collision Data at $\sqrt{s} = 8$ TeV from the ATLAS Detector. Physical Review Letters, 2015, 114, 081802.   | 2.9 | 98        |
| 130 | Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 163-183.                                 | 1.4 | 95        |
| 131 | Search for the Standard Model Higgs boson decaying to $Z\gamma$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 163-183.                                | 1.4 | 95        |
| 132 | The ATLAS Inner Detector commissioning and calibration. European Physical Journal C, 2010, 70, 787-821.  | 1.4 | 95        |
| 133 | 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        |
| 134 | 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        |
| 135 | First direct detection of an exoplanet by optical interferometry. Astronomy and Astrophysics, 2019, 623, L11.  | 2.1 | 95        |
| 136 | Search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 392-413.   | 1.4 | 92        |
| 137 | Role of iodine oxoacids in atmospheric aerosol nucleation. Science, 2021, 371, 589-595.  | 6.0 | 94        |
| 138 | Centrality and rapidity dependence of inclusive jet production in $\sqrt{s} = 8$ TeV proton-lead collisions with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 392-413.                           | 1.4 | 92        |
| 139 | Measurements of the $W$ production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82.   | 1.6 | 91        |
| 140 | Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in $\sqrt{s} = 8$ TeV collisions at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 392-413. | 2.9 | 90        |
| 141 | Search for dark matter in events with a $Z$ boson and missing transverse momentum in $\sqrt{s} = 8$ TeV collisions at the ATLAS detector. Physical Review D, 2015, 92, .   | 1.6 | 90        |
| 142 | Search for Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state from pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 412.   | 1.4 | 90        |
| 143 | Search for the $b\bar{b} \rightarrow \gamma\gamma$ 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        |

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|-----|--|-----|-----------|
| 145 | 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.  | 1.6 | 88        |
| 146 | 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        |
| 147 | Measurement of $W\Delta E$ and Z-boson production cross sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 601-621. | 1.6 | 88        |
| 148 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.  | 1.4 | 87        |
| 149 | Measurement of multi-particle azimuthal correlations in pp, pPb and low-multiplicity PbPb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428.  | 1.4 | 86        |
| 150 | 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        |
| 151 | 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        |
| 152 | On the composition of ammonia-sulfuric-acid ion clusters during aerosol particle formation. Atmospheric Chemistry and Physics, 2015, 15, 55-78.  | 1.9 | 84        |
| 153 | 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        |
| 154 | Observation of an Excited $B_c$ State with the ATLAS Detector. Physical Review Letters, 2014, 113, 212004.   | 1.9 | 82        |
| 155 | Improved GRAVITY astrometric accuracy from modeling optical aberrations. Astronomy and Astrophysics, 2021, 647, A59.   | 2.1 | 82        |
| 156 | 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        |
| 157 | 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        |
| 158 | Measurement of the prompt $J/\psi$ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76.  | 1.4 | 81        |
| 159 | Search for dark matter in pp collisions 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        |
| 160 | Search for dark matter in pp collisions at $\sqrt{s} = 13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. European Physical Journal C, 2017, 77, 393.               | 1.4 | 80        |
| 161 | Search for production of $WW/WZ$ resonances decaying to a lepton, neutrino and jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 209.  | 1.4 | 79        |
| 162 | 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        |

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|-----|--|-----|-----------|
| 163 | Measurement of $\epsilon$ production in $7\text{ TeV}$ collisions at ATLAS. Physical Review D, 2013, 87, .   | 1.6 | 78        |
| 164 | Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-39.  | 1.6 | 78        |
| 165 | Peering into the formation history of $\rho$ Pictoris b with VLTI/GRAVITY long-baseline interferometry. Astronomy and Astrophysics, 2020, 633, A110.   | 2.1 | 78        |
| 166 | Evidence for the associated production of a W boson and a top quark in ATLAS at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 142-159.  | 1.6 | 76        |
| 167 | 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.  | 1.4 | 77        |
| 168 | Search for dark matter in events with heavy quarks and missing transverse momentum in $pp$ collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 92.  | 1.4 | 77        |
| 169 | Measurement of $W^+W^-$ production in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 37-54.   | 1.4 | 75        |
| 170 | Search for Direct Top Squark Pair Production in Final States with One Isolated Lepton, Jets, and Missing Transverse Momentum in $pp$ Collisions Using 4.7 fb <sup>-1</sup> of ATLAS Data. Physical Review Letters, 2012, 109, 211803.                            | 1.4 | 75        |
| 171 | Search for new physics in the dijet mass distribution using 1 fb <sup>-1</sup> of $pp$ collision data at $\sqrt{s} = 7$ TeV collected by the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 37-54. | 1.4 | 75        |
| 172 | Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.   | 1.4 | 75        |
| 173 | Measurement of quarkonium production in proton-lead and proton-proton collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.   | 1.4 | 75        |
| 174 | A Particle Consistent with the Higgs Boson Observed with the ATLAS Detector at the Large Hadron Collider. Science, 2012, 338, 1576-1582.   | 6.0 | 74        |
| 175 | Search for resonant diboson production in the $\ell\ell q\bar{q}$ final state in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69.   | 1.4 | 74        |
| 176 | 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.  | 1.4 | 73        |
| 177 | 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.   | 1.6 | 73        |
| 178 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. European Physical Journal C, 2016, 76, 666.  | 1.4 | 73        |
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