

# Swagato Banerjee

## List of Publications by Year in descending order

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Version: 2024-02-01

594  
papers

47,341  
citations

4145

87  
h-index

2684

193  
g-index

622  
all docs

622  
docs citations

622  
times ranked

16907  
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  | Review of Particle Physics. Physical Review D, 2018, 98, .  | 4.7 | 5,390     |
| 3  | Review of Particle Physics. Progress of Theoretical and Experimental Physics, 2020, 2020, .   | 6.6 | 3,177     |
| 4  | 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.   | 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  | Averages of $b$ -hadron, $c$ -hadron, and $\tau$ -lepton properties as of summer 2016. European Physical Journal C, 2017, 77, 1.  | 3.9 | 379       |
| 9  | Measurement of the azimuthal anisotropy for charged particle production in lead-lead collisions with the ATLAS detector. Physical Review C, 2012, 86, .   | 2.9 | 365       |
| 10 | 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       |
| 11 | Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.   | 3.9 | 325       |
| 12 | 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       |
| 13 | 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       |
| 14 | The Physics of the B Factories. European Physical Journal C, 2014, 74, 1.   | 3.9 | 292       |
| 15 | 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       |
| 16 | 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       |
| 17 | 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       |
| 18 | Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.  | 3.9 | 259       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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       |
| 20 | Averages of b-hadron, c-hadron, and $\tau$ -lepton properties as of 2018. European Physical Journal C, 2021, 81, 1.  | 3.9 | 248       |
| 21 | Combined measurements of Higgs boson production and decay using up to $\sqrt{s}=13$ TeV of proton-proton collision data at $\sqrt{s}=13$ TeV. Physical Review D, 2020, 101, 1.                                 | 3.9 | 248       |
| 22 | 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       |
| 23 |  |     |           |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Search for Scalar Diphoton Resonances in the Mass Range 6546"600ÅGeV with the ATLAS Detector<br>in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Collision Data at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mi} \rangle s \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 13 \langle \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle \hat{\text{a}}\text{e}\%$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 7.8 | 168       |
| 38 | Search for new high-mass phenomena in the dilepton final state using 36 fb <sup>-1</sup> 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       |
| 39 | Measurements of Higgs boson production and couplings in the four-lepton channel in collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, .   | 4.7 | 158       |
| 40 | 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, .   | 4.7 | 157       |
| 41 | Measurement of the transverse momentum and $\phi - \eta$ 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       |
| 42 | 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       |
| 43 | Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 145       |
| 44 | Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.   | 3.9 | 145       |
| 45 | Precision measurement and interpretation of inclusive $W^+W^-$ . European Physical Journal C, 2017, 77, 367.  | 3.9 | 145       |
| 46 | Measurement of the $t\bar{t}$ production cross-section using $e^+e^-$ events with $b$ -tagged jets in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109.   | 3.9 | 143       |
| 47 | Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 137       |
| 48 | 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 | 136       |
| 49 | Measurements of the Nuclear Modification Factor for Jets in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS Detector. Physical Review Letters, 2015, 114, 072302.   | 7.8 | 135       |
| 50 | Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801.   | 7.8 | 133       |
| 51 | 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.  | 3.9 | 132       |
| 52 | 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.   | 4.7 | 131       |
| 53 | Search for Invisible Decays of a Higgs Boson Produced in Association with a $Z$ Boson in ATLAS. Physical Review Letters, 2014, 112, .   | 7.8 | 130       |
| 54 | ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.   | 3.9 | 130       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s} = 8$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.                          | 4.7 | 128       |
| 56 | Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow t\bar{t} + \tau^{\pm}\nu_{\tau}$ 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. | 4.7 | 126       |
| 57 | Dark Matter benchmark models for early LHC Run-2 Searches: Report of the ATLAS/CMS Dark Matter Forum. Physics of the Dark Universe, 2020, 27, 100371.   | 4.9 | 126       |
| 58 | 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.   | 1.2 | 124       |
| 59 | Evidence for Electroweak Production of $W^{\pm}Z$ Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector. Journal of High Energy Physics, 2015, 2015, 1.  | 7.8 | 123       |
| 60 | Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349.                    | 3.9 | 123       |
| 61 |   |     |           |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Search for heavy resonances decaying into $WW$ in the $e^+e^- \rightarrow e^+e^- \gamma \gamma$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24.   | 3.9 | 108       |
| 74 | Measurement of the inclusive jet cross-section in pp collisions at $\sqrt{s} = 2.76$ TeV and comparison to the inclusive jet cross-section at $\sqrt{s} = 7$ TeV using the ATLAS detector. European Physical Journal C, 2013, 73, 2509.   | 3.9 | 105       |
| 75 | Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 102       |
| 76 | 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.   | 3.9 | 101       |
| 77 | Search for heavy ZZ resonances in the $e^+e^- \rightarrow e^+e^- \gamma \gamma$ 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       |
| 78 | 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       |
| 79 | Search for Higgs Boson Pair Production in the $WW$ Final State Using pp Collision Data at $\sqrt{s} = 8$ TeV from the ATLAS Detector. Physical Review Letters, 2015, 114, 081802.   | 7.8 | 98        |
| 80 | Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Collisions at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle$ Physical Review Letters, 2020, 125, 051801. | 7.8 | 97        |
| 81 | 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        |
| 82 | 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        |
| 83 | Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.  | 3.9 | 93        |
| 84 | Measurements of the $WW$ production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82.   | 3.9 | 92        |
| 85 | 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        |
| 86 | Search for the $b\bar{b} \rightarrow \text{H} \rightarrow b\bar{b}$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.   | 4.7 | 89        |
| 87 | 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        |
| 88 | 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        |
| 89 | 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, 759, 601-621.  | 3.9 | 88        |
| 90 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195.   | 3.9 | 87        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Measurement of multi-particle azimuthal correlations in pp, p $\bar{A}$ + $\bar{A}$ Pb and low-multiplicity Pb $\bar{A}$ + $\bar{A}$ Pb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428. | 3.9 | 86        |
| 92  | 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        |
| 93  | 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        |
| 94  | Observation of an Excited $B_c$ State with the ATLAS Detector. Physical Review Letters, 2014, 113, 212004.  | 3.9 | 82        |
| 95  | 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        |
| 96  | 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        |
| 97  | 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.   | 3.9 | 81        |
| 98  | 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        |
| 99  | Search for production of supersymmetric particles with compressed mass spectra in pp collisions with the ATLAS detector. Physical Review Letters, 2020, 124, 101801.  | 4.7 | 80        |
| 100 | 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        |
| 101 | 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        |
| 102 | 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        |
| 103 | Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-39.                               | 4.7 | 78        |
| 104 | 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        |
| 105 | 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        |
| 106 | Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.  | 3.9 | 75        |
| 107 | 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        |
| 108 | Observation of Light-by-Light Scattering in Ultraperipheral Pb-Pb Collisions with the ATLAS Detector. Physical Review Letters, 2019, 123, 052001.   | 7.8 | 75        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | Search for resonant diboson production in the $q\bar{q} \rightarrow \gamma^* \rightarrow \ell\ell$ final state in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69.       | 3.9 | 74        |
| 110 | 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        |
| 111 | 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        |
| 112 | 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        |
| 113 | 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        |
| 114 | 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        |
| 115 | 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        |
| 116 | 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        |
| 117 | Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.      | 4.7 | 71        |
| 118 | Search for a high-mass Higgs boson decaying to a W boson pair in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.  | 4.7 | 71        |
| 119 | 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        |
| 120 | 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        |
| 121 | Search for resonances in diphoton events at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.   | 4.7 | 70        |
| 122 | Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \tau^-$ in fully hadronic final states using $pp$ collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 69        |
| 123 | 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        |
| 124 | ATLAS data quality operations and performance for 2015-2018 data-taking. Journal of Instrumentation, 2020, 15, P04003-P04003.   | 1.2 | 68        |
| 125 | Search for new resonances in mass distributions of jet pairs using 139 fb <sup>-1</sup> of $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.                         | 4.7 | 68        |
| 126 | Measurement of charged-particle spectra in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 67        |



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|-----|---|-----|-----------|
| 127 | 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        |
| 128 | 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        |
| 129 | High Resonance Search with Weak Supervision Using $\mathcal{M}_{\text{min}}^{\text{min}}$<br>$\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}\text{display}=\text{"inline"}\text{>}\langle\text{mml:mrow}\rangle\langle\text{mml:msqrt}\rangle\langle\text{mml:mrow}\rangle\langle\text{mml:mi}\rangle\text{s}\langle\text{mml:mi}\rangle\langle\text{mml:mrow}\rangle\langle\text{mml:msqrt}\rangle\langle\text{mml:mo}\rangle=\langle\text{mml:mo}\rangle\langle\text{mml:math}\text{ xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}\text{display}=\text{"inline"}\text{>}\langle\text{mml:mi}\rangle\text{p}\langle\text{mml:mi}\rangle\langle\text{mml:mi}\rangle\text{p}\langle\text{mml:mi}\rangle\langle\text{mml:math}\rangle$ Collisions in the ATLAS Detector. Physical Review Letters, 2020, 125, 131801. | 7.8 | 67        |
| 130 | Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 8$ TeV $pp$ collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 66        |
| 131 | A search for $t\bar{t}$ resonances using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 66        |
| 132 | A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 250.  | 3.9 | 66        |
| 133 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 7$ TeV $pp$ collisions with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 65        |
| 134 | Measurement of the $W\hat{a}, Z/\bar{3} * \hat{a}, \hat{a}, \hat{a}$ production cross sections in proton-proton collisions at $\sqrt{s} = 7; \sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1.  | 4.7 | 64        |
| 135 | Measurement of isolated-photon pair production in $pp$ collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 64        |
| 136 | Measurement of Spin Correlation in Top-Antitop Quark Events and Search for Top Squark Pair Production in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.  | 7.8 | 64        |
| 137 | Observation and measurements of the production of prompt and non-prompt $J/\psi$ mesons in association with a $Z$ boson in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 229.   | 3.9 | 64        |
| 138 | Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 64        |
| 139 | Search for new phenomena in events with an energetic jet and missing transverse momentum in $pp$ collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. Physical Review D, 2021, 103, 112001.  | 4.7 | 64        |
| 140 | Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.  | 3.9 | 64        |
| 141 | Measurement of Z Boson Production in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS Detector. Physical Review Letters, 2013, 110, 022301.  | 7.8 | 63        |
| 142 | Measurement of the differential cross-sections of prompt and non-prompt production of $J/\psi$ and $\psi(2S)$ in $pp$ collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283.   | 3.9 | 63        |
| 143 | Performance of the ATLAS muon trigger in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 120.   | 3.9 | 62        |
| 144 | Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 154.  | 3.9 | 62        |

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|-----|---|-----|-----------|
| 145 | Performance of the ATLAS muon triggers in Run 2. Journal of Instrumentation, 2020, 15, P09015-P09015.   | 1.2 | 62        |
| 146 | Measurement of ZZ production in pp collisions at $\sqrt{s}=7$ TeV and limits on anomalous ZZZ and ZZ $\tilde{\chi}^0$ couplings with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.                       | 4.7 | 61        |
| 147 | Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 1.  | 3.9 | 61        |
| 148 | Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay $H \rightarrow W \tilde{\chi}^{\pm}$ .<br>$\sqrt{s} = 7 \text{ TeV}$   | 3.9 | 61        |
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| 584 | Two-particle Bose-Einstein correlations in $\{pp\}$ collisions at $\sqrt{s}=13 \text{ TeV}$ measured with the ATLAS detector at the LHC. European Physical Journal C, 2022, 82, .  | 3.9 | 3         |
| 585 | A search for an excited muon decaying to a muon and two jets in pp collisions at $\sqrt{s}=8 \text{ TeV}$ with the ATLAS detector. New Journal of Physics, 2016, 18, 073021.   | 2.9 | 2         |
| 586 | Search for trilepton resonances from chargino and neutralino pair production in $\sqrt{s}=13 \text{ TeV}$ pp collisions with the ATLAS detector. Physical Review D, 2021, 103, .   | 4.7 | 2         |
| 587 | Measurement of the $\overline{t}t$ production cross-section using (emu) events with (b)-tagged jets in (pp) collisions at ( $\sqrt{s}=7$ ) and 8 TeV with the ATLAS detector. , 2014, 74, 1.   |     | 2         |
| 588 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. , 2015, 75, 1.  |     | 2         |
| 589 | Measurement of the jet mass in high transverse momentum $Z(\tau^+\tau^-b\bar{b})^3$ production at $\sqrt{s}=13 \text{ TeV}$ using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 135991. | 4.1 | 1         |
| 590 | Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in $36 \text{ fb}^{-1}$ of ( $\sqrt{s}=13$ ) TeV pp collisions with the ATLAS detector. , 2018, 2018, 1.                                |     | 1         |
| 591 | 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         |
| 592 | 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         |
| 593 | Measurement of the W-boson mass in pp collisions at ( $\sqrt{s}=7 \text{ TeV}$ ) with the ATLAS detector. , 2018, 78, 1.   |     | 1         |
| 594 | 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         |