

# Elena Solfaroli-Camillocchi

## List of Publications by Year in descending order

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Version: 2024-02-01

368  
papers

30,716  
citations

7096

78  
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5829

161  
g-index

369  
all docs

369  
docs citations

369  
times ranked

12136  
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  | Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 252303.   | 7.8 | 581       |
| 5  | Observation of Associated Near-Side and Away-Side Long-Range Correlations in Lead-Lead Collisions at the ATLAS Detector. Physical Review Letters, 2012, 109, 192301.  | 7.8 | 431       |
| 6  | 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       |
| 7  | 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       |
| 8  | Combined search for the Standard Model Higgs boson using up to $4.9 \text{ fb}^{-1}$ of pp collision data at the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 49-66.                   | 4.1 | 328       |
| 9  | Charged-particle multiplicities in $pp$ interactions measured with the ATLAS detector at the LHC. New Journal of Physics, 2011, 13, 053033.   | 2.9 | 314       |
| 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 | 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.   | 4.1 | 295       |
| 12 | 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       |
| 13 | Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.  | 3.9 | 259       |
| 14 | 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       |
| 15 | Search for high-mass dilepton resonances in $pp$ collisions at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 1-29.   | 4.7 | 237       |
| 16 | Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 49-66. | 4.1 | 231       |
| 17 | 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       |
| 18 | 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       |

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|----|---|------|-----------|
| 19 | 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       |
| 20 | 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, 719, 220-241.                | 7.8  | 195       |
| 21 | Luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.  | 3.9  | 179       |
| 22 | 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       |
| 23 | 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.  | 7.8  | 171       |
| 24 | 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.  | 4.1  | 169       |
| 25 | 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.  | 2.5  | 163       |
| 26 | Measurement of the inelastic proton-proton cross-section at $\sqrt{s} = 7$ TeV with the ATLAS detector. Nature Communications, 2011, 2, 463.  | 12.8 | 160       |
| 27 | Measurement of the inelastic proton-proton cross-section at $\sqrt{s} = 7$ TeV with the ATLAS detector. Nature Communications, 2011, 2, 463.  | 3.58 | 158       |
| 28 | Measurement of hard double-parton interactions in $W + 2$ -jet events at $\sqrt{s} = 7$ TeV with the ATLAS detector. New Journal of Physics, 2013, 15, 033038.  | 2.9  | 147       |
| 29 | 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       |
| 30 | 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       |
| 31 | 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 with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 67-85.         | 7.8  | 143       |
| 32 | 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       |
| 33 | 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 with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 706, 131802. | 7.8  | 136       |
| 34 | Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physical Review D, 2012, 86, .   | 4.7  | 135       |
| 35 | Measurement of event-plane correlations in lead-lead collisions with the ATLAS detector. Physical Review C, 2014, 90, .   | 2.9  | 134       |
| 36 | Charged-particle multiplicities in pp interactions at $\sqrt{s} = 900$ GeV measured with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 21-42.   | 4.1  | 133       |

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|----|--|-----|-----------|
| 37 | Measurement of the $Z/\hat{1}^3$ * boson transverse momentum distribution in pp collisions at $s = 7 \sqrt{s} = 7 \sqrt{s}$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.                                      | 4.7 | 131       |
| 38 | 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       |
| 39 | Search for Dark Matter in Events with a Hadronically Decaying $Z$ Boson and Missing Transverse Momentum in pp Collisions at $s = 8 \sqrt{s} = 8 \sqrt{s}$ TeV with the ATLAS Detector. Physical Review Letters, 2014, 112, 041802.           | 7.8 | 129       |
| 40 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $s = 8 \sqrt{s} = 8 \sqrt{s}$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.        | 4.7 | 128       |
| 41 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $s = 8 \sqrt{s} = 8 \sqrt{s}$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.        | 4.1 | 126       |
| 42 | Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \tau^-$ in $t \bar{t}$ events using pp collision data at $\sqrt{s} = 7 \sqrt{s} = 7 \sqrt{s}$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 126       |
| 43 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $s = 8 \sqrt{s} = 8 \sqrt{s}$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.        | 7.8 | 123       |
| 44 | Readiness of the ATLAS Tile Calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 1193-1236.  | 3.9 | 121       |
| 45 | Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 7 \sqrt{s} = 7 \sqrt{s}$ TeV with the ATLAS detector. Physical Review D, 2011, 83, .   | 4.7 | 121       |
| 46 |  |     |           |

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|----|--|-----|-----------|
| 55 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sum_{i=1}^n \sqrt{p_{T,i}^2 + m_{\tilde{q},\tilde{g}}^2} > 4.7 \text{ TeV}$ $\sum_{i=1}^n \sqrt{p_{T,i}^2 + m_{\tilde{q},\tilde{g}}^2} > 4.7 \text{ TeV}$ collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 4.7 | 112       |
| 56 | Search for charginos nearly mass degenerate with the lightest neutralino based on a disappearing-track signature in $\sqrt{s} = 7 \text{ TeV}$ collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.   | 4.7 | 110       |
| 57 | Measurement of $\text{Star}(t)\bar{s}$ production with a veto on additional central jet activity in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. <i>European Physical Journal C</i> , 2012, 72, 2043.   | 3.9 | 109       |
| 58 | Combined search for the Standard Model Higgs boson in $\sqrt{s} = 7 \text{ TeV}$ collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.   | 4.7 | 109       |
| 59 | Measurement of the centrality dependence of $\text{Star}(t)\bar{s}$ production in lead-lead collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 697, 294-312.   | 4.1 | 109       |
| 60 | Measurement of the centrality dependence of $\text{Star}(t)\bar{s}$ production in lead-lead collisions with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 697, 294-312.   | 4.1 | 107       |
| 61 | Measurement of the inclusive jet cross-section in pp collisions at $\sqrt{s} = 2.76 \text{ TeV}$ and comparison to the inclusive jet cross-section at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. <i>European Physical Journal C</i> , 2013, 73, 2509.  | 3.9 | 105       |
| 62 | Search for Dark Matter Candidates and Large Extra Dimensions in Events with a Photon and Missing Transverse Momentum in $\sqrt{s} = 7 \text{ TeV}$ Collision Data at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.   | 7.8 | 105       |
| 63 | Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.  | 4.7 | 102       |
| 64 | Search for heavy neutrinos and right-handed W bosons in events with two leptons and jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2012, 72, 2056.  | 3.9 | 101       |
| 65 | Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . <i>European Physical Journal C</i> , 2012, 72, 1.  | 3.9 | 100       |
| 66 | Search for Higgs Boson Pair Production in the $\text{Star}(t)\bar{s}\bar{b}\bar{b}$ Final State Using pp Collision Data at $\sqrt{s} = 8 \text{ TeV}$ from the ATLAS Detector. <i>Physical Review Letters</i> , 2015, 114, 081802.   | 7.8 | 98        |
| 67 | The ATLAS Inner Detector commissioning and calibration. <i>European Physical Journal C</i> , 2010, 70, 787-821.  | 3.9 | 95        |
| 68 | Search for the Standard Model Higgs boson in the decay channel $\text{Star}(t)\bar{s}\bar{b}\bar{b}$ in $\sqrt{s} = 7 \text{ TeV}$ collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.   | 7.8 | 94        |
| 69 | Observation of a New $\text{Star}(t)\bar{s}\bar{b}\bar{b}$ State in Radiative Transitions to $\text{Star}(t)\bar{s}\bar{b}\bar{b}$ in $\sqrt{s} = 7 \text{ TeV}$ collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.   | 5.0 | 92        |
| 70 | Search for the Standard Model Higgs boson in the decay channel $\text{Star}(t)\bar{s}\bar{b}\bar{b}$ in $\sqrt{s} = 7 \text{ TeV}$ collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.   | 7.8 | 90        |
| 71 | Search for the Standard Model Higgs boson and missing transverse momentum in $\sqrt{s} = 7 \text{ TeV}$ collisions at $\sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.  | 4.7 | 90        |
| 72 | Jet mass and substructure of inclusive jets in $\sqrt{s} = 7 \text{ TeV}$ pp collisions with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.  | 4.7 | 88        |

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|----|---|------|-----------|
| 73 | 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        |
| 74 | Observation of an Excited $B_c$ State with the ATLAS Detector. Physical Review Letters, 2014, 113, 212004.  | 8.2  | 82        |
| 75 | Search for Dilepton Resonances in $\sqrt{s} = 7$ TeV pp Collisions at the ATLAS Detector. Physical Review Letters, 2011, 107, 272002.   | 7.8  | 81        |
| 76 | 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        |
| 77 | Search for $\Lambda_c^+$ production in $\sqrt{s} = 7$ TeV pp collisions at ATLAS. Physical Review Letters, 2013, 111, 212001.   | 7.8  | 80        |
| 78 | Measurement of upsilon production in $\sqrt{s} = 7$ TeV pp collisions at ATLAS. Physical Review D, 2013, 87, 012001.  | 4.7  | 78        |
| 79 | 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, 142-150.   | 4.7  | 77        |
| 80 | Light-quark and gluon jet discrimination in $\sqrt{s} = 7$ TeV pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3023.  | 3.9  | 77        |
| 81 | Search for $W^+W^-$ production in $\sqrt{s} = 7$ TeV pp collisions at ATLAS. Physical Review Letters, 2012, 109, 211803.  | 4.7  | 76        |
| 82 | Search for Direct Top Squark Pair Production in Final States with One Isolated Lepton, Jets, and Missing Transverse Momentum in $\sqrt{s} = 7$ TeV pp Collisions Using $\sqrt{s} = 7$ TeV ATLAS Data. Physical Review Letters, 2012, 109, 211803. | 4.7  | 75        |
| 83 | Search for new physics in the dijet mass distribution using $\sqrt{s} = 7$ TeV pp collision data at ATLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 37-54.                                    | 4.7  | 75        |
| 84 | A Particle Consistent with the Higgs Boson Observed with the ATLAS Detector at the Large Hadron Collider. Science, 2012, 338, 1576-1582.  | 12.6 | 74        |
| 85 | 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        |
| 86 | 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        |
| 87 | Search for Higgs boson decays to a photon and a Z boson in pp collisions at $\sqrt{s} = 7$ TeV and 8 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 732, 8-27.              | 4.7  | 72        |
| 88 | 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        |
| 89 | Measurement of underlying event characteristics using charged particles in $\sqrt{s} = 7$ TeV pp collisions at ATLAS. Physical Review Letters, 2013, 111, 212001.   | 4.7  | 71        |
| 90 | Search for $\Lambda_c^+$ production in $\sqrt{s} = 7$ TeV pp collisions at ATLAS. Physical Review D, 2011, 83, 012001.  | 4.7  | 70        |

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|-----|--|-----|-----------|
| 91  | Measurement of the high-mass Drellian differential cross-section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 223-242. | 4.1 | 67        |
| 92  | Measurement of the top quark pair production cross-section with ATLAS in the single lepton channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 711, 244-263.                              | 4.1 | 69        |
| 93  | Searches for heavy long-lived sleptons and R-hadrons with the ATLAS detector in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 720, 277-308.             | 4.1 | 67        |
| 94  | 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        |
| 95  | Measurement of the $W \rightarrow \tau \nu_\tau$ and $Z \rightarrow \tau \tau$ production cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1.     | 4.7 | 64        |
| 96  | 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        |
| 97  | Search for a Supersymmetric Partner to the Top Quark in Final States with Jets and Missing Transverse Momentum at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2013, 109, 211802.                              | 7.8 | 63        |
| 98  | Measurement of ZBoson 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        |
| 99  | Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 120.  | 3.9 | 62        |
| 100 | Readiness of the ATLAS liquid argon calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 723-753.  | 3.9 | 61        |
| 101 | Measurement of Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2011, 106, 172002.  | 7.8 | 61        |
| 102 | Search for Scalar Bottom Quark Pair Production with the ATLAS Detector in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 108, 181802.   | 7.8 | 61        |
| 103 | Search for a Light Higgs Boson Decaying to Long-Lived Weakly Interacting Particles in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector. Physical Review Letters, 2012, 108, 251801.                              | 7.8 | 61        |
| 104 | Measurement of ZZ production in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous ZZZ and ZZ $\gamma$ couplings with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.                                      | 4.7 | 61        |
| 105 | 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        |
| 106 | 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        |
| 107 | Measurement of ZZ production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 60        |
| 108 | Search for the decay $B \rightarrow \tau \nu_\tau$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 387-407.  | 4.1 | 59        |

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|-----|--|-----|-----------|
| 109 | Measurement of $W \pm Z$ production in proton-proton collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2012, 72, 1.  | 3.9 | 59        |
| 110 | Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s}=7\text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 59        |
| 111 | Measurement of the Azimuthal Angle Dependence of Inclusive Jet Yields in Pb+Pb Collisions at $\sqrt{s_{NN}}=2.76\text{ TeV}$ with the ATLAS Detector. Physical Review Letters, 2013, 111, 152301.  | 7.8 | 59        |
| 112 | Characterisation and mitigation of beam-induced backgrounds observed in the ATLAS detector during the 2011 proton-proton run. Journal of Instrumentation, 2013, 8, P07004-P07004.  | 1.2 | 59        |
| 113 | Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 59        |
| 114 | Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 59        |
| 115 | Searches for supersymmetry with the ATLAS detector using 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.   | 4.1 | 58        |
| 116 | Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 694, 327-345. | 4.7 | 58        |
| 117 | Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s}=7\text{ TeV}$ in 2010. European Physical Journal C, 2014, 74, 261803.  | 3.9 | 58        |
| 118 | Measurement of the transverse momentum distribution of Z bosons in proton-proton collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. Physical Review D, 2014, 89, 032004.   | 4.1 | 57        |
| 119 | Search for a dark photon in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 694, 327-345.  | 4.7 | 57        |
| 120 | Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in pp collisions using 1 fb <sup>-1</sup> of ATLAS data. Physical Review D, 2012, 85, 032004.  | 4.7 | 57        |
| 121 | Search for long-lived stopped top quarks in pp collisions with the ATLAS detector. Physical Review Letters, 2012, 109, 261803.   | 7.8 | 57        |
| 122 | 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        |
| 123 | Measurement of Top Quark Polarization in Top-Antitop Events from Proton-Proton Collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. Physical Review D, 2013, 88, 032004.   | 7.8 | 57        |
| 124 | Search for long-lived stopped top quarks in pp collisions with the ATLAS detector. Physical Review Letters, 2012, 109, 261803.   | 4.7 | 57        |
| 125 | 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        |
| 126 | Search for WZ resonances in the fully leptonic channel using pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 737, 223-243.         | 4.1 | 56        |



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|-----|--|-----|-----------|
| 127 | Search for new phenomena with the monojet and missing transverse momentum signature using the ATLAS detector in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 294-312.                     | 4.7 | 55        |
| 128 | Search for direct top squark pair production in events with a $Z$ boson, $b$ -jets and missing transverse momentum in $pp$ collisions with the ATLAS detector. Search for Supersymmetry in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1. | 3.9 | 55        |
| 129 | Search for Supersymmetry in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.  | 4.1 | 54        |
| 130 | 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        |
| 131 | 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        |
| 132 | Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 53        |
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