

Piotr Malecki

List of Publications by Year in descending order

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Version: 2024-02-01

365
papers

28,983
citations

9264

74
h-index

6300

158
g-index

367
all docs

367
docs citations

367
times ranked

11696
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 the ATLAS Detector at the LHC. Physical Review Letters, 2012, 109, 192301. | 7.8 | 581 |
| 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 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 | 307 |
| 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 | Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1. | 3.9 | 259 |
| 13 | 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 |
| 14 | | | |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Measurement of the inclusive production of W and Z bosons in proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 7.8 | 171 |
| 22 | Measurement with the ATLAS detector of multi-particle azimuthal correlations in proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 4.1 | 169 |
| 23 | Measurement of the inclusive production of W and Z bosons in proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Nature Communications, 2011, 2, 463. | 2.5 | 163 |
| 24 | 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 |
| 25 | Measurement of the inclusive production of W and Z bosons in proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. New Journal of Physics, 2013, 15, 033038. | 2.9 | 147 |
| 26 | 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 |
| 27 | Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in proton collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 67-85. | 4.1 | 143 |
| 28 | Measurements of the nucleon structure function in the range $0.002 < x < 0.17$ and $0.2 < Q^2 < 8$ GeV ² in deuterium, carbon and calcium. Nuclear Physics B, 1990, 333, 1-47. | 2.5 | 138 |
| 29 | 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 |
| 30 | Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in proton collisions. Physical Review Letters, 2011, 106, 131802. | 7.8 | 136 |
| 31 | 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 |
| 32 | Charged-particle multiplicities in pp interactions at $\sqrt{s} = 7$ TeV 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 | 126 |
| 33 | Multiparticle production on hydrogen, argon, and xenon targets in a streamer chamber by 200-GeV/c proton and antiproton beams. Physical Review D, 1982, 26, 1019-1035. | 4.7 | 126 |
| 34 | Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in proton collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 21-42. | 4.1 | 126 |
| 35 | Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \tau^-$ in 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | 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 |
| 56 | 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. Collision Data at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 142-159. | 7.8 | 105 |
| 57 | Design and performance of the ABCD1A ASIC for readout of silicon strip detectors in the ATLAS semiconductor tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 552, 292-328. | 1.6 | 104 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | The ATLAS Inner Detector commissioning and calibration. European Physical Journal C, 2010, 70, 787-821. | 3.9 | 95 |
| 62 | Search for the Standard Model Higgs boson in the decay channel $H \rightarrow Z\gamma$. Observation of a New Particle Consistent with the Standard Model Higgs Boson. State in Observation of a New Particle Consistent with the Standard Model Higgs Boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 142-159. | 7.8 | 90 |
| 63 | Measurement of the inclusive jet cross-section in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 142-159. | 7.8 | 90 |
| 64 | 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 |
| 65 | Search for Dilepton Resonances in pp Collisions at $\sqrt{s}=7$ TeV. Collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 107, 272002. | 7.8 | 81 |
| 66 | 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 |
| 67 | Search for the associated production of a W boson and a top quark in ATLAS at $\sqrt{s}=7$ TeV. 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. | 7.8 | 80 |
| 68 | The barrel modules of the ATLAS semiconductor tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 642-671. | 1.6 | 79 |
| 69 | Measurement of upsilon production in $\sqrt{s}=7$ TeV collisions at ATLAS. Physical Review D, 2013, 87, . | 4.7 | 78 |
| 70 | A study of deep inelastic hadron-hadron collisions with a large acceptance calorimeter trigger. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 112, 173-177. | 4.1 | 77 |
| 71 | Evidence for the associated production of a W boson and a top quark in ATLAS at $\sqrt{s}=7$ TeV. 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. | 7.8 | 80 |
| 72 | Measurement of hadron azimuthal distributions in deep inelastic muon proton scattering. Zeitschrift für Physik C-Particles and Fields, 1987, 34, 277-282. | 1.5 | 76 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | Measurement of the top quark pair production cross-section in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physical Review Letters, 2012, 109, 211803. | 4.7 | 76 |
| 74 | Search for Direct Top Squark Pair Production in Final States with One Isolated Lepton, Jets, and Missing Transverse Momentum in $7\sqrt{s}=7$ TeV pp Collisions Using 36.1 fb ⁻¹ of ATLAS Data. Physical Review Letters, 2012, 109, 211803. | 4.7 | 75 |
| 75 | Search for new physics in the dijet mass distribution using 1 fb ⁻¹ of pp collision data at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 37-54. | 4.7 | 75 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | 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 |
| 80 | Measurement of the underlying event characteristics using charged particles in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physical Review D, 2011, 83, 072001. | 4.7 | 70 |
| 81 | Measurement of the high-mass Drellian differential cross-section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physical Review D, 2011, 83, 072001. | 4.7 | 70 |
| 82 | Measurements of the u valence quark distribution function in the proton and u quark fragmentation functions. Nuclear Physics B, 1989, 321, 541-560. | 2.5 | 69 |
| 83 | 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 |
| 84 | Searches for heavy long-lived sleptons and R-hadrons with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physical Review D, 2013, 87, 072001. | 4.1 | 67 |
| 85 | The ATLAS semiconductor tracker end-cap module. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 575, 353-389. | 1.6 | 65 |
| 86 | 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 |
| 87 | 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 |
| 88 | 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 |
| 89 | The silicon microstrip sensors of the ATLAS semiconductor tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 98-118. | 1.6 | 63 |
| 90 | 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, 2012, 109, 211802. | 7.8 | 63 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Measurement of Z Boson Production in Pb-Pb Collisions at $\sqrt{s}=2.76$ TeV with the ATLAS Detector. Physical Review Letters, 2013, 110, 022301. | 7.8 | 63 |
| 92 | Readiness of the ATLAS liquid argon calorimeter for LHC collisions. European Physical Journal C, 2010, 70, 723-753. | 3.9 | 61 |
| 93 | 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 |
| 94 | 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 |
| 95 | 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 |
| 96 | 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 |
| 97 | 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 |
| 98 | 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 |
| 99 | Measurement of WZ production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physical Review Letters, 2012, 108, 151801. | 4.7 | 60 |
| 100 | Search for the decay $B \rightarrow Z \tau^+ \tau^-$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 387-407. | 4.1 | 59 |
| 101 | Measurement of $W \tilde{\chi}^0 Z$ production in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 1. | 3.9 | 59 |
| 102 | Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 59 |
| 103 | Measurement of the Azimuthal Angle Dependence of Inclusive Jet Yields in Pb+Pb Collisions at $\sqrt{s}=2.76$ TeV with the ATLAS Detector. Physical Review Letters, 2013, 111, 152301. | 7.8 | 59 |
| 104 | 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 |
| 105 | Multiplicity distributions in rapidity intervals for p-p and p-nucleus interactions at 200 GeV. Zeitschrift für Physik C-Particles and Fields, 1986, 33, 187-196. | 1.5 | 58 |
| 106 | Searches for supersymmetry with the ATLAS detector using final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physical Review Letters, 2012, 108, 151801. | 4.1 | 58 |
| 107 | Search for Z bosons in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 694, 327-345. | 4.1 | 57 |
| 108 | Search for quark contact interactions in dijet angular distributions in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 694, 327-345. | 4.1 | 57 |

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|-----|--|-----|-----------|
| 109 | Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in $\sqrt{s}=7$ TeV pp collisions using $\sqrt{s}=7$ TeV ATLAS data. Physical Review D, 2012, 85, . Search for Magnetic Monopoles in $\sqrt{s}=7$ TeV pp collisions. Physical Review D, 2012, 85, . | 4.7 | 57 |
| 110 | Search for Magnetic Monopoles in $\sqrt{s}=7$ TeV pp collisions. Physical Review D, 2012, 85, . Collisions with the ATLAS Detector. Physical Review Letters, 2012, 109, 261803. | 7.8 | 57 |
| 111 | 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 |
| 112 | Measurement of Top Quark Polarization in Top-Antitop Events from Proton-Proton Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2012, 109, 261803. | 7.8 | 57 |
| 113 | Search for long-lived stopped R-hadrons in $\sqrt{s}=7$ TeV pp collisions. Physical Review D, 2013, 88, . | 4.7 | 57 |
| 114 | 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 |
| 115 | Search for new phenomena with the monojet and missing transverse momentum signature using the ATLAS detector in $\sqrt{s}=7$ TeV pp collisions. Physics Letters B, 2013, 705, 209-214. | 4.7 | 55 |
| 116 | Search for new phenomena with the monojet and missing transverse momentum signature using the ATLAS detector in $\sqrt{s}=7$ TeV pp collisions. Physics Letters B, 2013, 705, 209-214. | 4.7 | 55 |
| 117 | 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. | 4.1 | 54 |
| 118 | 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 |
| 119 | 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 |
| 120 | Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in $\sqrt{s}=7$ TeV pp collisions. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 53 |
| 121 | Measurement of the cross-section for W boson production in association with b-jets in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 53 |
| 122 | Search for stable hadronising squarks and gluinos with the ATLAS experiment at the LHC. Physics Letters B, 2011, 701, 1-19. | 4.1 | 52 |
| 123 | Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 52 |
| 124 | Performance of jet substructure techniques for large-R jets in proton-proton collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 52 |
| 125 | Comparison of multiplicity distributions to the negative binomial distribution in muon-proton scattering. Zeitschrift für Physik C-Particles and Fields, 1987, 35, 335-345. | 1.5 | 51 |
| 126 | Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons. European Physical Journal C, 2010, 70, 755-785. | 3.9 | 51 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Measurement of the top quark mass with the template method in the $\text{Star}\{\text{t}\} \text{omathrm}\{\text{lepton}\} + \text{mathrm}\{\text{jets}\}$ channel using ATLAS data. European Physical Journal C, 2012, 72, 1. https://doi.org/10.1007/s00037-012-0001-1 | 3.9 | 51 |
| 128 | Measurement of the inclusive isolated prompt photon cross-section in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 720, 1-10. https://doi.org/10.1016/j.physletb.2012.02.011 | 4.1 | 49 |
| 129 | Search for pair production of massive particles decaying into three quarks with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC. Journal of High Energy Physics, 2012, 2012, 1. https://doi.org/10.1088/1126-6708/2012/01/001 | 4.7 | 48 |
| 130 | Triggers for displaced decays of long-lived neutral particles in the ATLAS detector. Journal of Instrumentation, 2013, 8, P07015-P07015. https://doi.org/10.1088/1748-0223/8/01/P07015 | 1.2 | 48 |
| 131 | Search for a heavy gauge boson decaying to a charged lepton and a neutrino in 1 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 720, 1-10. https://doi.org/10.1016/j.physletb.2012.02.011 | 4.7 | 47 |
| 132 | Study of jets produced in association with a W boson in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 720, 1-10. https://doi.org/10.1016/j.physletb.2012.02.011 | 4.7 | 47 |
| 133 | Search for pair-produced massive particles decaying into leptons and b-jets with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 720, 1-10. https://doi.org/10.1016/j.physletb.2012.02.011 | 4.7 | 46 |
| 134 | Measurement of dijet production with a veto on additional central jet activity in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1. https://doi.org/10.1088/1126-6708/2011/01/001 | 4.7 | 46 |
| 135 | Search for New Phenomena in Final States with Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 720, 1-10. https://doi.org/10.1016/j.physletb.2012.02.011 | 7.8 | 46 |
| 136 | Measurement of the cross section for the production of a W boson in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 720, 1-10. https://doi.org/10.1016/j.physletb.2012.02.011 | 4.7 | 45 |
| 137 | Measurements of the electron and muon inclusive cross-sections in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 438-456. https://doi.org/10.1016/j.physletb.2012.02.011 | 4.7 | 45 |
| 138 | Perturbative QCD effects observed in 490 GeV deep-inelastic muon scattering. Physical Review D, 1993, 48, 5057-5066. https://doi.org/10.1103/PhysRevD.48.5057 | 4.7 | 45 |
| 139 | Search for neutral MSSM Higgs bosons decaying to pairs in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 720, 1-10. https://doi.org/10.1016/j.physletb.2012.02.011 | 4.1 | 45 |
| 140 | Measurement of the production cross section of an isolated photon associated with jets in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Physical Review D, 2012, 85, . https://doi.org/10.1103/PhysRevD.85.014001 | 4.7 | 45 |
| 141 | Measurement of the cross section for top-quark pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector using final states with two high-p _T leptons. Journal of High Energy Physics, 2012, 2012, 1. https://doi.org/10.1088/1126-6708/2012/01/001 | 4.7 | 45 |
| 142 | Search for the Standard Model Higgs boson in the 4ℓ final state with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 720, 1-10. https://doi.org/10.1016/j.physletb.2012.02.011 | 4.7 | 45 |
| 143 | Measurement of the top quark pair production cross-section in pp collisions at $\sqrt{s} = 7$ TeV in dilepton final states with ATLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 459-477. https://doi.org/10.1016/j.physletb.2012.02.011 | 4.7 | 45 |
| 144 | Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions. European Physical Journal C, 2013, 73, 1. https://doi.org/10.1140/epjc/s10052-013-2381-1 | 3.9 | 45 |

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|-----|--|-----|-----------|
| 145 | Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 1. | 3.9 | 45 |
| 146 | Measurement of the σ_{t} production cross section in the tau + jets channel using the ATLAS detector. European Physical Journal C, 2013, 73, 2328. | 3.9 | 45 |
| 147 | Search for long-lived, heavy particles in final states with a muon and multi-track displaced vertex in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 280-298. | 4.1 | 44 |
| 148 | Search for the Standard Model Higgs boson in the $H \rightarrow \tau\tau$ decay mode in $\sqrt{s} = 7$ TeV pp collisions with ATLAS. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 43 |
| 149 | Beam tests of ATLAS SCT silicon strip detector modules. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 538, 384-407. | 1.6 | 42 |
| 150 | Combined performance tests before installation of the ATLAS Semiconductor and Transition Radiation Tracking Detectors. Journal of Instrumentation, 2008, 3, P08003-P08003. | 1.2 | 42 |
| 151 | Further search for supersymmetry at $\sqrt{s} = 7$ TeV in proton-proton collisions with jets, missing transverse momentum, and isolated leptons with the ATLAS detector. | 4.1 | 42 |
| 152 | Search for first generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 700, 1-6. | 4.1 | 42 |
| 153 | Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions with the ATLAS experiment. European Physical Journal C, 2011, 71, 1. | 4.1 | 41 |
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