

Mateusz Dynda

List of Publications by Year in descending order

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658
papers

32,025
citations

4942

84
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12233

133
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679
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679
docs citations

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times ranked

11015
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Continued Measurement of the Higgs Boson Mass in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015, 114, 191803. | 2.9 | 1,062 |
| 2 | Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , 2017, 77, 317. | 1.4 | 489 |
| 3 | 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. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 1.6 | 473 |
| 4 | Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2016, 76, 292. | 1.4 | 453 |
| 5 | Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , 2017, 77, 490. | 1.4 | 325 |
| 6 | Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s}=8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 581. | 1.4 | 298 |
| 7 | Luminosity determination in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016, 76, 653. | 1.4 | 279 |
| 8 | Performance of b -jet identification in the ATLAS experiment. <i>Journal of Instrumentation</i> , 2016, 11, P04008-P04008. | 0.5 | 278 |
| 9 | Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s}=7$ and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , 2016, 76, 6. | 1.4 | 274 |
| 10 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s}=8-8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015, 75, 299. | 1.4 | 238 |
| 11 | Observation of Long-Range Elliptic Azimuthal Anisotropies in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2015, 91, 112002. | 1.6 | 237 |
| 12 | Measurement 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. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 2.9 | 228 |
| 13 | Measurement 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. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 1.6 | 227 |
| 14 | Evidence for light-by-light scattering in heavy-ion collisions with the ATLAS detector at the LHC. <i>Nature Physics</i> , 2017, 13, 852-858. | 6.5 | 218 |
| 15 | Measurement of the W -boson mass in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 110. | 1.4 | 218 |
| 16 | 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. <i>Physical Review D</i> , 2014, 90, 112002. | 1.6 | 214 |
| 17 | Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014, 74, 3130. | 1.4 | 213 |
| 18 | Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014, 74, 2941. | 1.4 | 204 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ$ 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 |
| 20 | Search for high-mass dilepton resonances using 139 fb ⁻¹ of pp collision data collected at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 357, 67. | 1.5 | 196 |
| 21 | Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s} = 13$ TeV with the ATLAS Detector at the LHC. Physical Review Letters, 2016, 117, 182002. | 2.9 | 185 |
| 22 | Performance of missing transverse momentum reconstruction with the ATLAS detector using proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 903. | 1.4 | 181 |
| 23 | Measurement of the Higgs boson mass from the $H \rightarrow \tau\tau$ decay channel using 36.1 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 173-191. | 1.6 | 176 |
| 24 | 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 |
| 25 | Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1. | 1.4 | 172 |
| 26 | Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 173-191. | 1.5 | 169 |
| 27 | Search for narrow Scalar Dilepton Resonances in the Mass Range 650-600 GeV with the ATLAS Detector using 36.1 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 2.9 | 168 |
| 28 | Search for new high-mass phenomena in the dilepton final state using 36 fb ⁻¹ of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 168 |
| 29 | Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. Physical Review D, 2015, 91, 113001. | 1.6 | 158 |
| 30 | 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, 113001. | 1.6 | 157 |
| 31 | Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Nuclear Physics B, 2014, 889, 486-548. | 0.9 | 155 |
| 32 | Measurement of the transverse momentum and $\phi_{\tau\tau}$ distributions of Drell-Yan lepton pairs in proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 291. | 1.4 | 154 |
| 33 | Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 145 |
| 34 | Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466. | 1.4 | 145 |
| 35 | Precision measurement and interpretation of inclusive W^+W^+ , W^+W^- . European Physical Journal C, 2017, 77, 367. | 1.4 | 145 |
| 36 | Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s} = 13$ TeV with the ATLAS Detector. Physical Review Letters, 2018, 121, 211801. | 2.9 | 145 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | 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 8TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109. | 1.4 | 143 |
| 38 | 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 |
| 39 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s}=7$ and 8TeV with the ATLAS detector. Physical Review D, 2016, 94, . | 1.5 | 138 |
| 40 | Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 137 |
| 41 | Measurements of the Nuclear Modification Factor for Jets in $Pb-Pb$ Collisions at $\sqrt{s}=2.76$ and 5.02TeV with the ATLAS detector. Physical Review D, 2016, 94, . | 1.6 | 136 |
| 42 | Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 2.9 | 135 |
| 43 | Measurement of event-plane correlations in pp collisions at $\sqrt{s}=7$ and 8TeV with the ATLAS detector. Physical Review C, 2014, 90, . | 1.4 | 134 |
| 44 | Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801. | 2.9 | 133 |
| 45 | Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s}=13$ and 13TeV . European Physical Journal C, 2018, 78, 199. | 1.4 | 132 |
| 46 | Measurement of the Z boson transverse momentum distribution in pp collisions at $\sqrt{s}=7$ and 8TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 131 |
| 47 | ATLAS b -jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s}=13\text{TeV}$. European Physical Journal C, 2019, 79, 1. | 1.4 | 130 |
| 48 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s}=8$ and 8TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 128 |
| 49 | Search for pair production of third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s}=7$ and 8TeV with the ATLAS detector. Physical Review D, 2016, 94, . | 1.6 | 126 |
| 50 | Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ and 13TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995. | 1.4 | 125 |
| 51 | Search for pair production of third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s}=7$ and 8TeV with the ATLAS detector. Physical Review D, 2016, 94, . | 2.9 | 123 |
| 52 | Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in pp collisions at $\sqrt{s}=7$ and 8TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 349. | 1.4 | 123 |
| 53 | Search for new resonances in W and Z final states in pp collisions at $\sqrt{s}=7$ and 8TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Particle and High-Energy Physics, 2014, 738, 428-447. | 1.5 | 121 |
| 54 | Search for new resonances in W and Z final states in pp collisions at $\sqrt{s}=7$ and 8TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 428-447. | 1.5 | 121 |

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|----|---|-----|-----------|
| 55 | Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 116 |
| 56 | Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb ⁻¹ of pp collisions at s = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 116 |
| 57 | Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=8, \sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 538. | 1.4 | 115 |
| 58 | Search for new phenomena in dijet mass and angular distributions from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 302-322. | 1.6 | 115 |
| 59 | Search for new phenomena in dijet events using $\sqrt{s}=13$ TeV collision data collected at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 261-277. | 1.6 | 114 |
| 60 | Search for new phenomena in dijet events using $\sqrt{s}=13$ TeV collision data collected at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 261-277. | 1.6 | 114 |
| 61 | Measurement of long-range pseudorapidity correlations and azimuthal harmonics in $\sqrt{s}=2.76$ TeV proton-lead collisions with the ATLAS detector. Physical Review C, 2014, 90, . | 1.1 | 111 |
| 62 | Observation and measurement of Higgs boson decays to WW with the ATLAS detector. Physical Review D, 2015, 92, . | 1.6 | 110 |
| 63 | 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 |
| 64 | 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 |
| 65 | Search for heavy resonances decaying into WW in the $e^+e^- \rightarrow \mu^+\mu^- \gamma$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24. | 1.4 | 108 |
| 66 | Search for squarks and gluinos in final states with jets and missing transverse momentum using $\sqrt{s}=13$ TeV collision data collected at the ATLAS detector. Physical Review D, 2018, 97, . | 1.6 | 101 |
| 67 | Search for heavy ZZ resonances in the $pp \rightarrow ZZ \rightarrow 4\ell$ final state using $\sqrt{s}=13$ TeV collision data with the ATLAS detector. European Physical Journal C, 2018, 78, 293. | 1.4 | 101 |
| 68 | Search for heavy ZZ resonances in the $pp \rightarrow ZZ \rightarrow 4\ell$ final state using $\sqrt{s}=13$ TeV collision data with the ATLAS detector. European Physical Journal C, 2018, 78, 293. | 1.4 | 101 |
| 69 | 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 |
| 70 | Search for Higgs Boson Pair Production in the ZZ Final State Using pp Collision Data at $\sqrt{s}=8$ TeV from the ATLAS Detector. Physical Review Letters, 2015, 114, 081802. | 2.9 | 98 |
| 71 | Search for a CP-odd Higgs boson decaying to Zh in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 163-183. | 1.4 | 95 |
| 72 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | 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 |
| 74 | 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. | 5.02 | 93 |
| 75 | Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1. | 1.4 | 93 |
| 76 | Measurements of the W production cross sections in association with jets with the ATLAS detector. European Physical Journal C, 2015, 75, 82. | 1.4 | 92 |
| 77 | Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in $\sqrt{s} = 8$ TeV pp collisions at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 601-621. | 1.6 | 91 |
| 78 | Search for dark matter in events with a Z boson and missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 601-621. | 1.6 | 90 |
| 79 | 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 |
| 80 | Search for the $b\bar{b}\bar{A}$ 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 |
| 81 | 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 |
| 82 | Measurement of W 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. | 1.4 | 88 |
| 83 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195. | 1.4 | 87 |
| 84 | Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428. | 1.4 | 86 |
| 85 | Measurement of the correlation between flow harmonics of different order in lead-lead collisions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector. Physical Review C, 2015, 92, 054907. | 1.4 | 84 |
| 86 | 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 |
| 87 | 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 |
| 88 | Observation of an Excited B_c State with the ATLAS Detector. Physical Review Letters, 2014, 113, 212004. | 8.9 | 82 |
| 89 | Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1. | 1.4 | 82 |
| 90 | Measurement of the prompt J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76. | 1.4 | 81 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Search for dark matter at $\sqrt{s}=13\text{ TeV}$ 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 |
| 92 | Search for production of WW/WZ resonances decaying to a lepton, neutrino and jets in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 209. | 1.4 | 79 |
| 93 | 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 |
| 94 | Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 565. | 1.4 | 79 |
| 95 | Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-39. | 1.6 | 78 |
| 96 | Light-quark and gluon jet discrimination in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2014, 74, 3023. | 1.4 | 77 |
| 97 | 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 |
| 98 | Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s}=13\text{ TeV}$. European Physical Journal C, 2019, 79, 1. | 1.4 | 77 |
| 99 | Angular analysis of $B_0 \rightarrow K^* \mu^+ \mu^-$ decays in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 76 |
| 100 | Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673. | 1.4 | 75 |
| 101 | Measurement of quarkonium production in proton-lead and proton-proton collisions at $\sqrt{s}=5.02\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2018, 78, 171. | 1.4 | 75 |
| 102 | Observation of Light-by-Light Scattering in Ultraperipheral $Pb+Pb$ collisions with the ATLAS Detector. Physical Review Letters, 2019, 123, 052001. | 2.9 | 75 |
| 103 | Search for resonant diboson production in the pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2015, 75, 69. | 1.4 | 74 |
| 104 | Measurement of the nuclear modification factor for inclusive jets in $Pb+Pb$ collisions at $\sqrt{s}=5.02\text{ TeV}$ with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 108-128. | 1.9 | 74 |
| 105 | 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 |
| 106 | Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2016, 76, 392. | 1.4 | 73 |
| 107 | Search for Higgs boson decays to a photon and a Z boson in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 732, 8-27. | 1.5 | 73 |
| 108 | Search for supersymmetry at $\sqrt{s}=13\text{ TeV}$ in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. European Physical Journal C, 2016, 76, 259. | 1.4 | 72 |

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|-----|--|-----|-----------|
| 109 | 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. | 1.6 | 71 |
| 110 | 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. | 1.6 | 71 |
| 111 | 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. | 1.6 | 71 |
| 112 | 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. | 1.6 | 71 |
| 113 | Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. European Physical Journal C, 2017, 77, 332. | 1.4 | 71 |
| 114 | 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. | 1.4 | 70 |
| 115 | Search for resonances in diphoton events at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 70 |
| 116 | Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b}$ Decay Channel in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Physical Review Letters, 2018, 121, 191801. | 2.9 | 70 |
| 117 | Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ 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. | 1.6 | 69 |
| 118 | Search for new phenomena in high-mass diphoton final states using 37 fb^{-1} of proton-proton collisions collected at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 771, 2018, 1. | 1.6 | 69 |
| 119 | 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. | 1.6 | 68 |
| 120 | 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. | 1.4 | 68 |
| 121 | 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. | 1.6 | 67 |
| 122 | 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. | 1.4 | 67 |
| 123 | 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. | 1.6 | 67 |
| 124 | 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. | 1.6 | 66 |
| 125 | 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. | 1.6 | 66 |
| 126 | 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. | 1.4 | 66 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Measurement of Spin Correlation in Top-Antitop Quark Events and Search for Top Squark Pair Production in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Collisions at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mi} \rangle s \langle \text{mml:mi} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 8 \langle \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle \hat{\text{a}}\text{e}\%$ | 2.9 | 64 |
| 128 | Observation and measurements of the production of prompt and non-prompt $\psi(2S)$ 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. | 1.4 | 64 |
| 129 | Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 64 |
| 130 | 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. | 1.4 | 64 |
| 131 | Measurement of the differential cross-sections of prompt and non-prompt production of $\psi(2S)$ and $\psi(1S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283. | 1.4 | 63 |
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