

Tomoe Kishimoto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8845271/publications.pdf>

Version: 2024-02-01

279
papers

12,316
citations

28242

55
h-index

38368

95
g-index

297
all docs

297
docs citations

297
times ranked

8393
citing authors

| # | ARTICLE | IF | CITATIONS |
|---|--|-----|-----------|
| 1 | Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317. | 1.4 | 489 |
| 2 | Muon reconstruction performance of the ATLAS detector in proton-proton collision data at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 292. | 1.4 | 453 |
| 3 | Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490. | 1.4 | 325 |
| 4 | Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 581. | 1.4 | 298 |
| 5 | Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653. | 1.4 | 279 |
| 6 | Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s} = 7$ and 8 TeV in the ATLAS experiment. European Physical Journal C, 2016, 76, 6. | 1.4 | 274 |
| 7 | Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 17. | 1.4 | 268 |

8

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Measurement of the Z/\tilde{h}^3 * boson transverse momentum distribution in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 131 |
| 20 | 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. | 1.4 | 130 |
| 21 | Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 995. | 1.4 | 125 |
| 22 | Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 1.4 | 124 |
| 23 | Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb^{-1} of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 116 |
| 24 | Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=8, 13$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 538. | 1.4 | 115 |
| 25 | Search for heavy resonances decaying into $W\bar{W}$ in the $e\mu u e^{1/2} \tilde{h}^{1/2}$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 24. | 1.4 | 108 |
| 26 | Search for heavy ZZ resonances in the $e\ell^+e\ell^-e\ell^+e\ell^-$, $e\ell^+e\ell^-e\ell^+e\ell^-$ and $e\ell^+e\ell^-u\bar{u}$ final states using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 293. | 1.4 | 101 |
| 27 | Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1. | 1.4 | 93 |
| 28 | Search for the $b\bar{b}\tilde{H}$ 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 |
| 29 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. European Physical Journal C, 2017, 77, 195. | 1.4 | 87 |
| 30 | Measurement of multi-particle azimuthal correlations in pp, pPb and low-multiplicity PbPb collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 428. | 1.4 | 86 |
| 31 | 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 |
| 32 | Measurement of the prompt J/ψ pair production cross-section in pp collisions at $\sqrt{s}=8, 13$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76. | 1.4 | 81 |
| 33 | 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. | 1.4 | 80 |
| 34 | 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. | 1.4 | 79 |
| 35 | Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1. | 1.4 | 77 |
| 36 | Angular analysis of $B_0 \rightarrow \bar{d}t\bar{t}d$ decays in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 76 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673. | 1.4 | 75 |
| 38 | Measurement of quarkonium production in proton–lead and proton–proton collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171. | 1.4 | 75 |
| 39 | Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1. | 1.4 | 73 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Search for new resonances in mass distributions of jet pairs using 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 68 |
| 44 | 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 |
| 45 | 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 |
| 46 | Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 64 |
| 47 | 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 |
| 48 | Prompt and non-prompt J/ψ and $\psi(2S)$ suppression at high transverse momentum in $\sqrt{s} = 5.02$ TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762. | 1.4 | 61 |
| 49 | Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. European Physical Journal C, 2019, 79, 58. | 1.4 | 61 |
| 50 | Search for dark matter produced in association with bottom or top quarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 18. | 1.4 | 60 |
| 51 | Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.0. European Physical Journal C, 2018, 78, 142. | 1.4 | 59 |
| 52 | Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$, in the $\tau^{\pm} + \text{jets}$ and $\tau^{\pm} + \text{lepton}$ final states with 36 fb^{-1} of pp collision data recorded at $\sqrt{s} = 13$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 59 |
| 53 | Fiducial, total and differential cross-section measurements of t-channel single top-quark production in pp collisions at $\sqrt{s} = 8$ TeV using data collected by the ATLAS detector. European Physical Journal C, 2017, 77, 531. | 1.4 | 56 |
| 54 | Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 56 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Search for direct top squark pair production in events with a Z boson, b -jets and missing transverse momentum in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 2883. | 1.4 | 55 |
| 56 | Search for pair production of Higgs bosons in the $b\bar{b}$ final state using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 55 |
| 57 | Search for Higgs boson pair production in the $\gamma\gamma WW^{\pm}\gamma^{\pm}WW^{\pm}$ channel using pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 1007. | 1.4 | 53 |
| 58 | 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. | 1.6 | 52 |
| 59 | Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 154. | 1.4 | 52 |
| 60 | Search for minimal supersymmetric standard model Higgs Bosons H/A and for a Z^{\prime} boson in the $\tau\tau, \tau\mu, \tau e$ final state produced in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 585. | 1.4 | 51 |
| 61 | Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. European Physical Journal C, 2017, 77, 379. | 1.4 | 51 |
| 62 | Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{\text{ext}}}=5.02$ TeV Pb+Pb collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 997. | 1.4 | 51 |
| 63 | Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295. | 1.4 | 50 |
| 64 | Search for direct top squark pair production in final states with two leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898. | 1.4 | 50 |
| 65 | Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb^{-1} of pp collisions at. European Physical Journal C, 2018, 78, 401. | 1.4 | 50 |
| 66 | Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 50 |
| 67 | Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s}=13$ TeV pp collision data collected by the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 49 |
| 68 | Test of CP invariance in vector-boson fusion production of the Higgs boson using the Optimal Observable method in the ditau decay channel with the ATLAS detector. European Physical Journal C, 2016, 76, 658. | 1.4 | 48 |
| 69 | Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb^{-1} of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 48 |
| 70 | Measurements of the production cross section of a Z boson in association with jets in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 361. | 1.4 | 47 |
| 71 | Measurement of the top quark mass in the $t\bar{t}\rightarrow t\bar{t}\gamma$. European Physical Journal C, 2019, 79, 1. | 1.4 | 47 |
| 72 | Measurement of the Higgs boson coupling properties in the $H\rightarrow Z\gamma^*Z\gamma^*\rightarrow 4\mu$ decay channel at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 46 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. <i>European Physical Journal C</i> , 2019, 79, 1. | 1.4 | 46 |
| 74 | Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1. | 1.6 | 46 |
| 75 | Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2013, 73, 1. | 1.4 | 45 |
| 76 | Search for supersymmetry at $\sqrt{s} = 8$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1. | 1.6 | 45 |
| 77 | Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $s = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 1.6 | 45 |
| 78 | Performance of top-quark and W -boson tagging with ATLAS in Run 2 of the LHC. <i>European Physical Journal C</i> , 2019, 79, 1. | 1.4 | 42 |
| 79 | Measurement of $W^{\pm}Z$ production cross sections and gauge boson polarisation in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1. | 1.4 | 41 |
| 80 | Higgs boson production cross-section measurements and their EFT interpretation in the 4ℓ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1. | 1.4 | 41 |
| 81 | 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 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 40 |
| 82 | Measurements of b-jet tagging efficiency with the ATLAS detector using t events at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 40 |
| 83 | Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^-e^+e^-$ and $e^+e^-u\bar{u}$ final states using 139 fb^{-1} of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1. | 1.4 | 40 |
| 84 | Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 1.6 | 39 |
| 85 | Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $s = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 1.6 | 38 |
| 86 | Search for Higgs boson pair production in the $\gamma\gamma b\bar{b}$ final state with 13 TeV pp collision data collected by the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 38 |
| 87 | Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1. | 1.4 | 38 |
| 88 | Search for bottom squark pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016, 76, 547. | 1.4 | 37 |
| 89 | Measurement of the W boson polarisation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV in the lepton+jets channel with ATLAS. <i>European Physical Journal C</i> , 2017, 77, 264. | 1.4 | 37 |
| 90 | Search for supersymmetry in final states with missing transverse momentum and multiple b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 37 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Electron and photon energy calibration with the ATLAS detector using 2015â€“2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017. | 0.5 | 37 |
| 92 | Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb ⁻¹ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 37 |
| 93 | Search for pair production of heavy vector-like quarks decaying to high-p T W bosons and b quarks in the lepton-plus-jets final state in pp collisions at $s = 13 \sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 36 |
| 94 | Measurement of flow harmonics correlations with mean transverse momentum in leadâ€“lead and protonâ€“lead collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 1.4 | 36 |
| 95 | Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 36 |
| 96 | Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 1.4 | 36 |
| 97 | Measurement of the inclusive jet cross-section in proton-proton collisions at $s = 7 \sqrt{s} = 7$ TeV using 4.5 fb ⁻¹ of data with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 35 |
| 98 | Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector. European Physical Journal C, 2017, 77, 580. | 1.4 | 35 |
| 99 | Measurements of top-quark pair differential and double-differential cross-sections in the $t\bar{t} + \text{jets}$ channel with pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 1.4 | 34 |
| 100 | Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 1.4 | 34 |
| 101 | Measurements of $\tilde{\chi}(2S)$ and $\chi(3872) \rightarrow J/\psi + \tilde{\chi}^0$ production in pp collisions at $s = 8 \sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 33 |
| 102 | Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b-jets with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 33 |
| 103 | Event Classification with Quantum Machine Learning in High-Energy Physics. Computing and Software for Big Science, 2021, 5, 1. | 1.3 | 33 |
| 104 | Determination of the strong coupling constant $\alpha_{\mathrm{s}} \pm s$ from transverse energyâ€“energy correlations in multijet events at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 872. | 1.4 | 32 |
| 105 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $H \rightarrow b\bar{b}$ decay channel at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1. | 1.4 | 32 |
| 106 | Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\mu$ decay channel in pp collisions at $s = 13 \sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 31 |
| 107 | Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb ⁻¹ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 31 |
| 108 | Search for W^+W^-/ZZ resonance production in $t\bar{t} + 2q$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 31 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 31 |
| 110 | Study of hard double-parton scattering in four-jet events in pp collisions at $s = 7$ TeV with the ATLAS experiment. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 30 |
| 111 | Searches for the $Z\bar{1}^3$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 30 |
| 112 | Study of $WW\gamma$ and WWZ and $WZ\gamma$ and WZ . European Physical Journal C, 2017, 77, 646. | 1.4 | 30 |
| 113 | Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 30 |
| 114 | Searches for third-generation scalar leptoquarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 30 |
| 115 | Evidence for $t\bar{t}$ production in the multilepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 1.4 | 30 |
| 116 | A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 pp-collision data with the ATLAS detector. European Physical Journal C, 2017, 77, 26. | 1.4 | 29 |
| 117 | Measurement of the inclusive cross-sections of single top-quark and top-antiquark t-channel production in pp collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 29 |
| 118 | Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 29 |
| 119 | Searches for heavy ZZ and ZW resonances in the $\gamma, \gamma\gamma$ and γZ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 29 |
| 120 | Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 1.4 | 29 |
| 121 | Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$. European Physical Journal C, 2017, 77, 804. | 1.4 | 28 |
| 122 | Measurement of $WW/WZ \rightarrow \ell u q q'$ and $WW/WZ \rightarrow \ell \gamma \gamma$ production with the hadronically decaying boson reconstructed as one or two jets in pp collisions at $\sqrt{s} = 8$ TeV with ATLAS, and constraints on anomalous gauge couplings. European Physical Journal C, 2017, 77, 563. | 1.4 | 28 |
| 123 | Measurement of the Drell-Yan triple-differential cross section in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 28 |
| 124 | Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow a a$ channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 28 |
| 125 | Search for long-lived neutral particles in pp collisions at $\sqrt{s} = 13$ TeV that decay into displaced hadronic jets in the ATLAS calorimeter. European Physical Journal C, 2019, 79, 1. | 1.4 | 28 |
| 126 | In situ calibration of large-radius jet energy and mass in 13 TeV proton-proton collisions with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 1.4 | 28 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 28 |
| 128 | Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 1.4 | 28 |
| 129 | Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 1.4 | 28 |
| 130 | Measurements of top-quark pair differential cross-sections in the e^+e^- channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. European Physical Journal C, 2017, 77, 292. | 1.4 | 27 |
| 131 | Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 625. | 1.4 | 27 |
| 132 | Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 27 |
| 133 | Measurement of the top-quark mass in $t\bar{t} + 1$ -jet events collected with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 27 |
| 134 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a τ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 27 |
| 135 | Measurements of electroweak W^+W^-jj production and constraints on anomalous gauge couplings with the ATLAS detector. European Physical Journal C, 2017, 77, 474. | 1.4 | 26 |
| 136 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $ell\bar{b}\bar{b}$ and $ell\bar{e}ll WW$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 1.4 | 26 |
| 137 | Searches for heavy diboson resonances in pp collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 25 |
| 138 | Search for triboson $W^+W^-W^\pm$ production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2017, 77, 141. | 1.4 | 25 |
| 139 | Operation and performance of the ATLAS Tile Calorimeter in Run 1. European Physical Journal C, 2018, 78, 987. | 1.4 | 25 |
| 140 | A strategy for a general search for new phenomena using data-derived signal regions and its application within the ATLAS experiment. European Physical Journal C, 2019, 79, 1. | 1.4 | 25 |
| 141 | Search for the Higgs boson produced in association with a W boson and decaying to four b-quarks via two spin-zero particles in pp collisions at 13 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 605. | 1.4 | 24 |
| 142 | Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions. European Physical Journal C, 2016, 76, 517. | 1.4 | 24 |
| 143 | Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 1.4 | 24 |
| 144 | Measurement of fiducial and differential W^+W^- production cross-sections at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 1.4 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 24 |
| 146 | Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 541. | 1.4 | 23 |
| 147 | Measurement of the inclusive jet cross-sections in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 23 |
| 148 | Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 23 |
| 149 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1. | 1.3 | 23 |
| 150 | Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 22 |
| 151 | Search for pair production of heavy vector-like quarks decaying into high-pT W bosons and top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 22 |
| 152 | Measurements of top-quark pair spin correlations in the ee channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 1.4 | 22 |
| 153 | Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 22 |
| 154 | The performance of the jet trigger for the ATLAS detector during 2011 data taking. European Physical Journal C, 2016, 76, 526. | 1.4 | 21 |
| 155 | Search for the Standard Model Higgs boson decaying into $b\bar{b}$ produced in association with top quarks decaying hadronically in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 21 |
| 156 | Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 21 |
| 157 | Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, . | 1.4 | 21 |
| 158 | Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV and decaying into collimated leptons or light hadrons with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 1.4 | 21 |
| 159 | Measurements of top quark spin observables in $t\bar{t}$ events using dilepton final states in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 20 |
| 160 | Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s} = 13$ TeV with ATLAS. European Physical Journal C, 2018, 78, 186. | 1.4 | 20 |
| 161 | Search for diboson resonances in hadronic final states in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 20 |
| 162 | Measurement of k_T splitting scales in $W\hat{t}\hat{a}, \hat{t}\hat{t}/2$ events at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2013, 73, 2432. | 1.4 | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2017, 77, 765. | 1.4 | 19 |
| 164 | Prompt and non-prompt $\psi(2S)/\psi(1S)$ elliptic flow in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 784. | 1.4 | 19 |
| 165 | Search for top-quark decays $t \rightarrow Hq$ with 36 fb $^{-1}$ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 1.6 | 19 |
| 166 | Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb $^{-1}$ of data collected with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 1.6 | 19 |
| 167 | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb $^{-1}$ of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1. | 1.6 | 19 |
| 168 | Search for top quark decays $t \rightarrow qH$, with $H \rightarrow \tau\tau$, in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 1.6 | 18 |
| 169 | Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1. | 1.6 | 18 |
| 170 | Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1. | 1.4 | 18 |
| 171 | Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1. | 1.6 | 18 |
| 172 | Probing the Wtb vertex structure in t-channel single-top-quark production and decay in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 1.6 | 17 |
| 173 | Search for supersymmetry in events with b-tagged jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 1.6 | 17 |
| 174 | Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $\sqrt{s} = 13$ TeV with ATLAS. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 17 |
| 175 | Direct top-quark decay width measurement in the $t \rightarrow \tau \nu_{\tau}$ lepton+jets channel at $\sqrt{s} = 8$ TeV with the ATLAS experiment. <i>European Physical Journal C</i> , 2018, 78, 129. | 1.4 | 17 |
| 176 | Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 17 |
| 177 | Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 17 |
| 178 | Measurements of W and Z boson production in pp collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1. | 1.4 | 17 |
| 179 | Measurement of W^{\pm} boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2019, 79, 1. | 1.4 | 17 |
| 180 | Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 1.6 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | Search for the $HH \rightarrow b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 17 |
| 182 | Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 1.4 | 17 |
| 183 | Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $\sqrt{s} = 8$ TeV proton-proton collisions. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 16 |
| 184 | Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 16 |
| 185 | Top-quark mass measurement in the all-hadronic $t\bar{t} \rightarrow \tau^+\tau^-$ decay channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 16 |
| 186 | Measurement of colour flow using jet-pull observables in $t\bar{t} \rightarrow \tau^+\tau^-$ events with the ATLAS experiment at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 847. | 1.4 | 16 |
| 187 | Search for exclusive Higgs and Z boson decays to $\tau^+\tau^-$ and $\tau^+\tau^-$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 16 |
| 188 | Measurement of differential cross sections and W^+/\bar{W}^+ cross-section ratios for W boson production in association with jets at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 16 |
| 189 | Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 15 |
| 190 | Search for scalar resonances decaying into $\tau^+\tau^-$ in events with and without b-tagged jets produced in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 15 |
| 191 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1. | 1.4 | 15 |
| 192 | Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 1.4 | 15 |
| 193 | Measurement of charged-particle distributions sensitive to the underlying event in $\sqrt{s} = 13$ TeV proton-proton collisions with the ATLAS detector at the LHC. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 14 |
| 194 | Studies of $Z\tau^+\tau^-$ production in association with a high-mass dijet system in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 14 |
| 195 | Measurement of $VH, \gamma\gamma$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 14 |
| 196 | Measurements of inclusive and differential fiducial cross-sections of $t\bar{t}\gamma$ production in leptonic final states at $\sqrt{s} = 13$ TeV in ATLAS. European Physical Journal C, 2019, 79, 1. | 1.4 | 14 |
| 197 | Search for bottom-quark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 14 |
| 198 | Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 1. | 1.4 | 14 |
| 200 | Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 14 |
| 201 | Search for $\overline{t}t$ resonances in fully hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 14 |
| 202 | Measurement of the c-jet mistagging efficiency in $t\bar{t}$ events using pp collision data at $\sqrt{s}=13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, . | 1.4 | 14 |
| 203 | Measurements of top-quark pair to Z-boson cross-section ratios at $s = 13$ TeV, 8, 7 TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 13 |
| 204 | Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at \sqrt{s} TeV. European Physical Journal C, 2018, 78, 102. | 1.4 | 13 |
| 205 | Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 13 |
| 206 | Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 1.4 | 13 |
| 207 | Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 144. | 1.4 | 12 |
| 208 | Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $s = 13$ TeV proton-proton collision data. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 12 |
| 209 | Observation of the associated production of a top quark and a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 12 |
| 210 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 12 |
| 211 | Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s} = 8.16$ TeV p+Pb collisions with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 1.4 | 12 |
| 212 | Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. European Physical Journal C, 2021, 81, 1. | 1.4 | 12 |
| 213 | Search for supersymmetry in events with four or more charged leptons in 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 12 |
| 214 | Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 1.4 | 12 |
| 215 | Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 12 |
| 216 | Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1. | 1.4 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 217 | Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and 13 TeV . European Physical Journal C, 2022, 82, 1. | 1.4 | 12 |
| 218 | Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ recorded with the ATLAS detector. European Physical Journal C, 2016, 76, 683. | 1.4 | 11 |
| 219 | Measurement of jet activity produced in top-quark events with an electron, a muon and two b-tagged jets in the final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2017, 77, 220. | 1.4 | 11 |
| 220 | Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 11 |
| 221 | Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 11 |
| 222 | Measurement of the $Z \gamma \rightarrow u \bar{u}$ production cross section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector and limits on anomalous triple gauge-boson couplings. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 10 |
| 223 | Measurement of the inclusive and fiducial $t \bar{t} \hat{A}^-$ production cross-sections in the. European Physical Journal C, 2018, 78, 487. | 1.4 | 10 |
| 224 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W \hat{A}^\pm$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 10 |
| 225 | Measurement of J/ψ production in association with a $W \hat{A}^\pm$ boson with pp data at 8 TeV . Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 10 |
| 226 | Measurement of the $t \bar{t} \hat{A}^-$ production cross section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 10 |
| 227 | Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb^{-1} of pp collision data at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 10 |
| 228 | Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 10 |
| 229 | Measurement of the $t \bar{t} \gamma$ production cross section in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 9 |
| 230 | Measurements of charge and CP asymmetries in b-hadron decays using top-quark events collected by the ATLAS detector in pp collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 9 |
| 231 | Measurement of the ZZ production cross section in proton-proton collisions at $s = 8 \text{ TeV}$ using the ZZ $\hat{A}^+ \hat{A}^-$, $\hat{A}^+ \hat{A}^+$, $\hat{A}^- \hat{A}^-$, $\hat{A}^+ \hat{A}^0$, $\hat{A}^- \hat{A}^0$ and ZZ $\hat{A}^+ \hat{A}^-$, $\hat{A}^+ \hat{A}^+$, $\hat{A}^- \hat{A}^-$, $\hat{A}^+ \hat{A}^0$, $\hat{A}^- \hat{A}^0$ decay channels with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | | |
| 232 | Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 9 |
| 233 | Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 1.4 | 9 |
| 234 | Measurement of the $Z(\hat{A}^+ \hat{A}^-, \hat{A}^+ \hat{A}^+, \hat{A}^- \hat{A}^-)$ production cross-section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 235 | Search for dark matter produced in association with a single top quark in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 1.4 | 9 |
| 236 | Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in $s = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 8 |
| 237 | Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 8 |
| 238 | Analysis of the Wtb vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the t-channel at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 8 |
| 239 | Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 8 |
| 240 | Measurement of W^{\pm} -boson and Z-boson production cross-sections in pp collisions at $\sqrt{s}=2.76$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 1.4 | 8 |
| 241 | Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 8 |
| 242 | Measurements of $W+W^{\pm} + \text{1 jet}$ production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 8 |
| 243 | Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 8 |
| 244 | Reconstruction and identification of boosted di- τ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 8 |
| 245 | Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, 1. | 1.4 | 8 |
| 246 | Measurement of $\sigma_{\text{au}} \sigma_{\text{Z}}$, polarisation in $Z/\gamma \rightarrow \text{au au}$. European Physical Journal C, 2018, 78, 163. | 1.4 | 7 |
| 247 | Search for dijet resonances in events with an isolated charged lepton using $\sqrt{s} = 13$ TeV proton-proton collision data collected by the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 7 |
| 248 | Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\sqrt{s} = 13$ TeV proton-proton collision data. European Physical Journal C, 2021, 81, 1. | 1.4 | 7 |
| 249 | Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1. | 1.4 | 7 |
| 250 | Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, . | 1.4 | 7 |
| 251 | Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ and 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 6 |
| 252 | Measurement of ZZ production in the $\tau^+\tau^-\tau^+\tau^-$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 253 | Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 6 |
| 254 | Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1. | 1.4 | 6 |
| 255 | Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at $\sqrt{s} = 8$ and 13 TeV. European Physical Journal C, 2020, 80, 1. | 1.4 | 5 |
| 256 | A search for the decays of stopped long-lived particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 5 |
| 257 | Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. European Physical Journal C, 2021, 81, 1. | 1.4 | 5 |
| 258 | Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb ⁻¹ of ATLAS data. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 5 |
| 259 | The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1. | 1.4 | 5 |
| 260 | Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment at the LHC. European Physical Journal C, 2019, 79, 1. | 1.4 | 4 |
| 261 | Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 4 |
| 262 | Measurement of hadronic event shapes in high-pT multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 4 |
| 263 | Search for top squarks in events with a Higgs or Z boson using 139 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 1.4 | 4 |
| 264 | Measurement of σ_{S^0} and σ_{Λ^0} production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 1.4 | 4 |
| 265 | Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \mu^{\pm} \nu_{\mu} \rightarrow \mu^{\pm} \pi^{\pm} \nu_{\mu} \nu_{\tau}$ events in Run 2 data. European Physical Journal C, 2022, 82, 1. | 1.4 | 4 |
| 266 | Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 4 |
| 267 | Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 4 |
| 268 | Measurement of the k_t splitting scales in $Z \rightarrow \tau^+ \tau^-$ events in pp collisions at $s = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 3 |
| 269 | Measurement of distributions sensitive to the underlying event in inclusive Z boson production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 1.4 | 3 |
| 270 | Measurements of inclusive and differential cross-sections of combined $\sigma_{\text{overline}{t}\gamma}$ and tW^{\pm} production in the e^+e^- channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 271 | Measurement of isolated-photon plus two-jet production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 3 |
| 272 | Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8, \text{ext } \{ \text{TeV} \}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 1.4 | 3 |
| 273 | Measurement of the inclusive jet cross-section in proton-proton collisions at $(\sqrt{s}=7)$ TeV using 4.5 fb^{-1} of data with the ATLAS detector. , 2015, 2015, 1. | | 3 |
| 274 | Measurement of b-quark fragmentation properties in jets using the decay $B^{\pm} \rightarrow J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 3 |
| 275 | Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 2 |
| 276 | Measurement of the energy asymmetry in $t\bar{t}$ production at $\sqrt{s}=13, \text{TeV}$ with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, . | 1.4 | 2 |
| 277 | 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 fb^{-1} of $(\sqrt{s}=13)$ TeV pp collisions with the ATLAS detector. , 2018, 2018, 1. | | 1 |
| 278 | Measurement of the W-boson mass in pp collisions at $(\sqrt{s}=7, \text{hbox } \{ \text{TeV} \})$ with the ATLAS detector. , 2018, 78, 1. | | 1 |
| 279 | Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $(\sqrt{s}=13, \text{ext } \{ \text{TeV} \})$. , 2018, 78, 1. | | 1 |