

M N Agaras

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4481192/publications.pdf>

Version: 2024-02-01

346
papers

9,210
citations

50276

46
h-index

88630

70
g-index

361
all docs

361
docs citations

361
times ranked

8013
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 421. | 3.9 | 355 |
| 2 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4. | 3.9 | 198 |
| 3 | 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, 2019, 793, 520-551. | 4.1 | 196 |
| 4 | Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 520-551. | 4.1 | 196 |
| 5 | Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. Physical Review Letters, 2019, 122, 231801. | 7.8 | 133 |
| 6 | ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1. | 3.9 | 130 |
| 7 | Electron and photon performance measurements with the ATLAS detector using the 2015-2017 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P12006-P12006. | 1.2 | 124 |
| 8 | 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. | 3.9 | 124 |
| 9 | Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 122, 121803. | 7.8 | 102 |
| 10 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 101 |
| 11 | Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 710. | 3.9 | 98 |
| 12 | Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 125, 051801. | 7.8 | 97 |
| 13 | Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1. | 3.9 | 93 |
| 14 | Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 86 |
| 15 | Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s}=5.02$ TeV PbPb collisions. European Physical Journal C, 2018, 78, 509. | 3.9 | 83 |
| 16 | Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 82 |
| 17 | Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 1. | 3.9 | 82 |
| 18 | Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s}=13$ TeV pp collisions with. Physical Review D, 2020, 101, . | 4.7 | 80 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Measurement of nuclear modification factors of $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ mesons in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2019, 123, 052001. | 7.8 | 75 |
| 20 | Observation of Light-by-Light Scattering in Ultraperipheral Collisions with the ATLAS Detector. Physical Review Letters, 2019, 123, 052001. | 7.8 | 75 |
| 21 | Search for additional neutral MSSM Higgs bosons in the \tilde{t}, \tilde{t}^* final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 73 |
| 22 | Measurements of the Higgs boson width and anomalous couplings from on-shell and off-shell production in the four-lepton final state. Physical Review D, 2019, 99, . | 4.7 | 69 |
| 23 | Measurement of the $t\bar{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368. | 3.9 | 68 |
| 24 | ATLAS data quality operations and performance for 2015–2018 data-taking. Journal of Instrumentation, 2020, 15, P04003-P04003. | 1.2 | 68 |
| 25 | 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. | 4.7 | 68 |
| 26 | Dijet Resonance Search with Weak Supervision Using Collisions in the ATLAS Detector. Physical Review Letters, 2020, 125, 131801. | 7.8 | 67 |
| 27 | Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 64 |
| 28 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 63 |
| 29 | Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 62 |
| 30 | Performance of the ATLAS muon triggers in Run 2. Journal of Instrumentation, 2020, 15, P09015-P09015. | 1.2 | 62 |
| 31 | A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 135980. | 4.1 | 61 |
| 32 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 701. | 3.9 | 58 |
| 33 | Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578. | 3.9 | 57 |
| 34 | Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 57 |
| 35 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 57 |
| 36 | Search for charged Higgs bosons in the $H \rightarrow \tau^+ \tau^-$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 54 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Search for a standard model like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 53. | 4.1 | 53 |
| 38 | Combination of searches for Higgs boson pairs in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 135103. | 4.1 | 53 |
| 39 | Measurements of the $\sigma(\text{pp} \rightarrow Z Z)$ production cross section and the $\text{BR}(Z \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 165. | 3.9 | 52 |
| 40 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 564. | 3.9 | 50 |
| 41 | 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. | 4.7 | 50 |
| 42 | 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. | 4.7 | 49 |
| 43 | Search for an \tilde{L} gauge boson using $Z \rightarrow 4\ell$ events in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 345-368. | 4.1 | 49 |
| 44 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 364. | 3.9 | 48 |
| 45 | Search for supersymmetric partners of electrons and muons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 140-166. | 4.1 | 47 |
| 46 | Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 707. | 3.9 | 46 |
| 47 | Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 46 |
| 48 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 140. | 3.9 | 44 |
| 49 | Combination of searches for Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 96-129. | 4.1 | 44 |
| 50 | Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 43 |
| 51 | Search for a heavy charged Higgs boson in events with a charged lepton and missing transverse momentum from proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 100, 075011. | 4.7 | 43 |
| 52 | Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 42 |
| 53 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 42 |
| 54 | Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 398-423. | 4.1 | 41 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Higgs boson production cross-section measurements and their EFT interpretation in the e^+e^- decay channel at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 41 |
| 56 | Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789. | 3.9 | 40 |
| 57 | Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313. | 3.9 | 40 |
| 58 | Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 40 |
| 59 | Properties of Higgs Boson Interactions with Top Quarks in the $t\bar{t}$ final state. $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 965. | 7.8 | 40 |
| 60 | Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- \gamma Z$ final states using 139 fb $^{-1}$ of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 40 |
| 61 | Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 965. | 3.9 | 39 |
| 62 | Search for a right-handed gauge boson decaying into a high-momentum heavy neutrino and a charged lepton in pp collisions with the ATLAS detector at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134942. | 4.1 | 39 |
| 63 | Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636. | 3.9 | 38 |
| 64 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying t , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 38 |
| 65 | 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. European Physical Journal C, 2021, 81, 1. | 3.9 | 38 |
| 66 | Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 37 |
| 67 | 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. | 4.7 | 37 |
| 68 | Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b} \rightarrow e^+e^-$ final state in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 36 |
| 69 | Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b} \rightarrow e^+e^-$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 281-307. | 4.1 | 36 |
| 70 | Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 36 |
| 71 | 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. | 4.7 | 36 |
| 72 | 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. | 3.9 | 36 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Searches for lepton-flavour-violating decays of the Higgs boson in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135069. | 4.1 | 30 |
| 92 | Evidence for $\tau\tau$ production in the multilepton final state in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 30 |
| 93 | Search for lepton flavour violating decays of the Higgs boson to $\tau\mu$, and $e\tau$, in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 29 |
| 94 | Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 29 |
| 95 | Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. European Physical Journal C, 2019, 79, 280. | 3.9 | 29 |
| 96 | Measurement of the azimuthal anisotropy of charged-particle production in $\sqrt{s}=13\text{ TeV}$ collisions at the ATLAS detector. Physical Review C, 2020, 101, . | 2.9 | 29 |
| 97 | Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 29 |
| 98 | Search for long-lived neutral particles in pp collisions at $\sqrt{s}=13\text{ TeV}$ that decay into displaced hadronic jets in the ATLAS calorimeter. European Physical Journal C, 2019, 79, 1. | 3.9 | 28 |
| 99 | Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=13\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 107-131. | 4.7 | 28 |
| 100 | Search for a $W\tilde{A}$ boson decaying to a τ , lepton and a neutrino in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 107-131. | 4.7 | 28 |
| 101 | Measurements of $\overline{\text{mathrm{t}}}\text{t}$ differential cross sections in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ using events containing two leptons. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 28 |
| 102 | Search for $\overline{\text{mathrm{t}}}\text{t}\text{H}$ production in the $\text{H}\rightarrow\text{b}\overline{\text{b}}$ decay channel with leptonic $\overline{\text{mathrm{t}}}\text{t}$ decays in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 28 |
| 103 | Search for $\tau\tau$ production in the $\text{H}\rightarrow\text{b}\overline{\text{b}}$ decay channel with leptonic $\tau\tau$ decays in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1. | 4.1 | 28 |
| 104 | Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 28 |
| 105 | Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 28 |
| 106 | Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in $\sqrt{s}=13\text{ TeV}$ collisions with the ATLAS detector. Physical Review D, 2020, 101, . | 4.7 | 28 |
| 107 | Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector. Physical Review Letters, 2020, 124, 222002. | 7.8 | 28 |
| 108 | Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 28 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 27 |
| 110 | Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 291. | 3.9 | 27 |
| 111 | A search for pair production of new light bosons decaying into muons in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 796, 131-154. | 4.1 | 27 |
| 112 | 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. | 4.7 | 27 |
| 113 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a \bar{l} -lepton in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 27 |
| 114 | Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 26 |
| 115 | Measurement of the $t\bar{t}$ production cross-section and lepton differential distributions in $\mu\mu$ dilepton events from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, . | 3.9 | 26 |
| 116 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $ell\bar{b}\bar{b}$ and $ell\bar{W}W$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 26 |
| 117 | Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 25 |
| 118 | Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector. Physical Review Letters, 2020, 124, 031802. | 7.8 | 25 |
| 119 | Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 24 |
| 120 | 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. | 3.9 | 24 |
| 121 | Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at $\sqrt{s}=2.76$ TeV. Physical Review Letters, 2019, 122, 152001. | 7.8 | 24 |
| 122 | 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. | 3.9 | 24 |
| 123 | Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 24 |
| 124 | Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 23 |
| 125 | Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 23 |
| 126 | Search for resonant $t\bar{t}$ production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | 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. | 4.7 | 23 |
| 128 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1. | 2.9 | 23 |
| 129 | Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 22 |
| 130 | Search for low-mass resonances decaying into two jets and produced in association with a photon using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 56-75. | 4.1 | 22 |
| 131 | Measurements of top-quark pair spin correlations in the $\mu\mu$ channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 22 |
| 132 | Search for heavy neutral Higgs bosons produced in association with b -quarks and decaying into b -quarks and τ -quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135-146. | 4.7 | 22 |
| 133 | Search for CP-invariance in vector-boson fusion production of the Higgs boson in the $H \rightarrow \tau\tau$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135-146. | 4.7 | 22 |
| 134 | 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. | 4.1 | 22 |
| 135 | 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. | 4.7 | 22 |
| 136 | Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS. Physical Review Letters, 2020, 125, 261801. | 7.8 | 22 |
| 137 | Search for supersymmetry in events with a \tilde{l} , lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 21 |
| 138 | Search for beyond the standard model Higgs bosons decaying into a $\tilde{b}\tilde{b}$ pair in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 21 |
| 139 | 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, . | 3.9 | 21 |
| 140 | Observation of prompt J/ψ meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 172-194. | 4.1 | 21 |
| 141 | Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to $\tau\tau$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135-146. | 4.7 | 21 |
| 142 | Measurement of soft-drop jet observables in b -quark pair production with the ATLAS detector at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 101, . | 4.7 | 21 |
| 143 | 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. | 3.9 | 21 |
| 144 | Search for $t\bar{t}H$ production in the all-jet final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 20 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 20 |
| 146 | Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 99, . | 4.7 | 20 |
| 147 | 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. | 4.7 | 20 |
| 148 | Search for rare decays of Z and Higgs bosons to χ^0/ψ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94. | 3.9 | 20 |
| 149 | Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 99, . | 4.7 | 20 |
| 150 | Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector. Physical Review Letters, 2020, 125, 221802. | 7.8 | 20 |
| 151 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 19 |
| 152 | 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. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 19 |
| 153 | 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. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 19 |
| 154 | Measurement of normalized differential $\overline{\sigma}(\text{t})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 18 |
| 155 | Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 18 |
| 156 | Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 18 |
| 157 | Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 20. | 3.9 | 18 |
| 158 | Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 18 |
| 159 | Observation of nuclear modifications in W^{\pm} boson production in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135048. | 4.1 | 18 |
| 160 | Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 18 |
| 161 | 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. European Physical Journal C, 2021, 81, 1. | 3.9 | 18 |
| 162 | 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. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 164 | Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{NN}} = 5.44$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 165 | Search for Z^0 resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 166 | Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 167 | Search for the decay of a Higgs boson in the $h \rightarrow \tau^+ \tau^-$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 168 | Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 697. | 3.9 | 17 |
| 169 | Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 1. | 3.9 | 17 |
| 170 | Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 17 |
| 171 | Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 7.8 | 17 |
| 172 | Measurement of W^+W^- boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1. | 3.9 | 17 |
| 173 | Measurement of W^+W^- boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 123, 022001. | 4.1 | 17 |
| 174 | Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 17 |
| 175 | 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. | 4.7 | 17 |
| 176 | Measurement of Azimuthal Anisotropy of Muons from Charm and Bottom Hadrons in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2020, 124, 082301. | 7.8 | 17 |
| 177 | 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. | 3.9 | 17 |
| 178 | Longitudinal Flow Decorrelations in Xe+Xe Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2021, 126, 122301. | 7.8 | 17 |
| 179 | Search for Displaced Leptons in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2021, 126, 051802. | 4.1 | 17 |
| 180 | Search for Displaced Leptons in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2021, 127, 051802. | 7.8 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 181 | Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 16 |
| 182 | Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 886. | 3.9 | 16 |
| 183 | Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 15 |
| 184 | Search for a singly produced third-generation scalar leptoquark decaying to a \bar{l} , lepton and a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 15 |
| 185 | Measurement of b hadron lifetimes in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 457. | 3.9 | 15 |
| 186 | Measurement of prompt $\tilde{\chi}(2S)$ production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 509-532. | 4.1 | 15 |
| 187 | Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 15 |
| 188 | Search for electroweak diboson production in association with a high-mass dijet system in semileptonic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2019, 100, . | 4.7 | 15 |
| 189 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1. | 3.9 | 15 |
| 190 | Test of the universality of \tilde{g} , and $\tilde{g}/4$ lepton couplings in W-boson decays with the ATLAS detector. Nature Physics, 2021, 17, 813-818. | 16.7 | 15 |
| 191 | Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 14 |
| 192 | Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 14 |
| 193 | Studies of $\mathcal{B}(\tilde{B} \rightarrow \tilde{B} + \gamma)$ and $\mathcal{B}(\tilde{B} \rightarrow \tilde{B} + \gamma + \gamma)$ and $\mathcal{B}(\tilde{B} \rightarrow \tilde{B} + \gamma + \gamma + \gamma)$ | | |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | Search for bottom-squark 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. | 4.7 | 14 |
| 200 | Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135114. | 4.1 | 14 |
| 201 | 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. | 4.7 | 14 |
| 202 | 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. | 3.9 | 14 |
| 203 | Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at $s = 13$ TeV Using the ATLAS Detector. Physical Review Letters, 2021, 127, 141801. | 7.8 | 14 |
| 204 | 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. | 4.7 | 14 |
| 205 | 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. | 4.7 | 14 |
| 206 | Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physical Review D, 2020, 102, 074011. | 4.7 | 14 |
| 207 | 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, . | 3.9 | 14 |
| 208 | Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 13 |
| 209 | Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 13 |
| 210 | Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 13 |
| 211 | Jet properties in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 13 |
| 212 | Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 13 |
| 213 | Search for top quark partners with charge 5/3 in the $H \rightarrow a\gamma$, $W \rightarrow a\gamma$, $Z \rightarrow a\gamma$, $1/2a$, $1/2$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135114. | 4.1 | 13 |
| 214 | 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. | 4.7 | 13 |
| 215 | Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 13 |
| 216 | Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 217 | Search for non-resonant Higgs boson pair production in the $b\bar{b}a, 1/2a, 1/2$ final state with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics</i> , 2020, 801, 135145. | 4.1 | 13 |
| 218 | Measurement of the CP-violating phase ϕ_s in $B_{(s)}^0 \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV. <i>European Physical Journal C</i> , 2021, 81, . | 3.9 | 13 |
| 219 | 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. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 13 |
| 220 | Search for long-lived charginos based on a disappearing-track signature using 136 fb ⁻¹ of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2022, 82, . | 3.9 | 13 |
| 221 | Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 12 |
| 222 | Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 12 |
| 223 | Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 12 |
| 224 | Search for dark matter produced in association with a Higgs boson decaying to $\tilde{\chi}_1^0 \tilde{\chi}_1^0$ or $\tilde{\chi}_1^+ \tilde{\chi}_1^-$ at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 12 |
| 225 | An embedding technique to determine \tilde{t}, \tilde{b} backgrounds in proton-proton collision data. <i>Journal of Instrumentation</i> , 2019, 14, P06032-P06032. | 1.2 | 12 |
| 226 | Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 1. | 3.9 | 12 |
| 227 | Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 4.7 | 12 |
| 228 | Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics</i> , 2020, 800, 135042. | 4.1 | 12 |
| 229 | Measurement of the single top quark and antiquark production cross-section in the lepton+jets channel at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 4.1 | 12 |
| 230 | 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. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 4.7 | 12 |
| 231 | Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s_{\text{NN}}}=8.16$ TeV p+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2020, 80, 1. | 3.9 | 12 |
| 232 | Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 12 |
| 233 | 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. <i>Journal of High Energy Physics</i> , 2021, 2021, 1. | 4.7 | 12 |
| 234 | 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. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 235 | 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. | 4.7 | 12 |
| 236 | Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1. | 3.9 | 12 |
| 237 | 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. | 3.9 | 12 |
| 238 | Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 11 |
| 239 | Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 11 |
| 240 | Search for supersymmetry in events with a photon, jets, $\mathbf{b}\text{-jets}$, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 444. | 3.9 | 11 |
| 241 | Search for nonresonant Higgs boson pair production in the $\mathbf{b}\text{-}\overline{\mathbf{b}}$ final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 11 |
| 242 | Study of the underlying event in top quark pair production in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 123. | 3.9 | 11 |
| 243 | Search for Higgs boson production in association with b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 2.9 | 11 |
| 244 | Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 11 |
| 245 | Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 11 |
| 246 | Z boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134913. | 4.1 | 11 |
| 247 | Two-particle azimuthal correlations in photonuclear ultraperipheral collisions at 5.02 TeV with ATLAS. Physical Review C, 2021, 104, . | 2.9 | 11 |
| 248 | Exclusive dimuon production in ultraperipheral collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 798, 134913. | 2.9 | 11 |
| 249 | Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 10 |
| 250 | Measurement of the $Z/\gamma \rightarrow \mu\mu$ cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of $Z/\gamma \rightarrow \mu\mu$. European Physical Journal C, 2018, 78, 708. | 3.9 | 10 |
| 251 | Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\overline{u}q\overline{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 10 |
| 252 | Evidence for the production of three massive vector bosons with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134913. | 4.1 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 253 | Search for flavour-changing neutral currents in processes with one top quark and a photon using 81 fb ⁻¹ of pp collisions at s=13TeV with the ATLAS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135082. | 4.1 | 10 |
| 254 | Strange hadron production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 2.9 | 10 |
| 255 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential W [±] and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 10 |
| 256 | Measurement of the t \bar{t} production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 10 |
| 257 | 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 $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 10 |
| 258 | 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. | 4.7 | 10 |
| 259 | Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 9 |
| 260 | Search for lepton-flavor violating decays of heavy resonances and quantum black holes to e $\bar{\nu}_\mu$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 9 |
| 261 | Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 1. | 3.9 | 9 |
| 262 | Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1. | 3.9 | 9 |
| 263 | Search for a low-mass \tilde{t}_1 resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 9 |
| 264 | Combinations of single-top-quark production cross-section measurements and $ f_{LVtb} $ determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experiments. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 9 |
| 265 | 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. | 3.9 | 9 |
| 266 | Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2020, 125, 102001. | 4.1 | 9 |
| 267 | Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1. | 7.8 | 9 |
| 268 | Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 9 |
| 269 | Multiparticle correlation studies in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 2.9 | 9 |
| 270 | Measurement of the Z($\nu\bar{\nu}$) ³ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 271 | 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. | 3.9 | 9 |
| 272 | Evidence for electroweak production of two jets in association with a Z^0 pair in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136412. | 4.1 | 9 |
| 273 | Measurement of the nuclear modification factor for muons from charm and bottom hadrons in Pb+Pb collisions at 5.02 TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137077. | 4.1 | 9 |
| 274 | Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}}=5.02$ and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 8 |
| 275 | Search for a heavy resonance decaying into a Z boson and a Z or W boson in $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 8 |
| 276 | Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\sqrt{s}=13$ TeV collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 773. | 3.9 | 8 |
| 277 | Measurement of inclusive very forward jet cross sections in proton-lead collisions at $\sqrt{s_{NN}}=5.02$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 8 |
| 278 | 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. | 3.9 | 8 |
| 279 | Measurement of the nuclear modification factor for muons from charm and bottom hadrons in Pb+Pb collisions at $\sqrt{s}=2.76$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136412. | 2.9 | 8 |
| 280 | 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. | 4.7 | 8 |
| 281 | Measurements of $W+W^{\pm}+1$ jet production cross-sections in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 8 |
| 282 | Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. Nature Physics, 2021, 17, 819-825. | 16.7 | 8 |
| 283 | 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. | 4.7 | 8 |
| 284 | Evidence for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136412. | 4.1 | 8 |
| 285 | Reconstruction and identification of boosted $d\bar{t}$ 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. | 4.7 | 8 |
| 286 | 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. | 3.9 | 8 |
| 287 | Search for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136412. | 4.1 | 8 |
| 288 | Search for Lepton-Flavor Violation in Z^0 -Boson Decays with Leptons with the ATLAS Detector. Physical Review Letters, 2021, 127, 271801. | 7.8 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 289 | Modelling radiation damage to pixel sensors in the ATLAS detector. Journal of Instrumentation, 2019, 14, P06012-P06012. | 1.2 | 7 |
| 290 | Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s} = 13$ TeV via Higgs boson decays to $\tilde{l}, \tilde{\nu}$, leptons. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 7 |
| 291 | Resolution of the ATLAS muon spectrometer monitored drift tubes in LHC Run 2. Journal of Instrumentation, 2019, 14, P09011-P09011. | 1.2 | 7 |
| 292 | 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. | 4.7 | 7 |
| 293 | Medium-Induced Modification of Z -Tagged Charged Particle Yields in pp Collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS Detector. Physical Review Letters, 2021, 126, 072301. | 7.8 | 7 |
| 294 | 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. | 3.9 | 7 |
| 295 | Search for new phenomena in three- or four-lepton events in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 824, 136832. | 4.1 | 7 |
| 296 | Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1. | 3.9 | 7 |
| 297 | 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, . | 3.9 | 7 |
| 298 | Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 6 |
| 299 | Centrality and pseudorapidity dependence of the transverse energy density in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review C, 2019, 100, . | 2.9 | 6 |
| 300 | Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 76-99. | 4.1 | 6 |
| 301 | Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 6 |
| 302 | 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. | 4.7 | 6 |
| 303 | Measurement of ZZ production in the $\tilde{\chi}_1^0 \tilde{\chi}_1^0$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 6 |
| 304 | Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in pp collisions at $\sqrt{s} = 8, 13$ TeV. European Physical Journal C, 2019, 79, 969. | 3.9 | 6 |
| 305 | 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, 2019, 2019, 1. | 4.7 | 6 |
| 306 | Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into Z or W in Fully Hadronic Final States from pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021 | 7.8 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 307 | Observation of photon-induced W^+W^- production in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136190. | 4.1 | 6 |
| 308 | Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2021, 16, P07029. | 1.2 | 6 |
| 309 | Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. Physical Review Letters, 2020, 125, 251802. | 7.8 | 6 |
| 310 | Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1. | 3.9 | 6 |
| 311 | Measurements of azimuthal anisotropies of jet production in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. Physical Review C, 2022, 105, 024907. | 2.9 | 6 |
| 312 | Measurement of the inclusive $\sigma(\text{t}\bar{\text{t}})$ cross section in pp collisions at $\sqrt{s}=5.02$ TeV using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 5 |
| 313 | Search for a $W\epsilon^2$ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 5 |
| 314 | Search for the pair production of light top squarks in the e^+e^- final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 5 |
| 315 | 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. | 4.7 | 5 |
| 316 | The ATLAS Fast Tracker system. Journal of Instrumentation, 2021, 16, P07006. | 1.2 | 5 |
| 317 | 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. | 3.9 | 5 |
| 318 | 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. | 4.7 | 5 |
| 319 | Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s}=8$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164. | 3.9 | 5 |
| 320 | Emulating the impact of additional proton-proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. Computing and Software for Big Science, 2022, 6, 1. | 2.9 | 5 |
| 321 | The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1. | 3.9 | 5 |
| 322 | Measurement of differential cross sections in the kinematic angular variable $\tilde{\chi}^*$ for inclusive Z boson production in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 4 |
| 323 | Search for ZZ resonances in the $2\gamma, 2\ell$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 4 |
| 324 | Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 325 | Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 305. | 3.9 | 4 |
| 326 | 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. | 4.7 | 4 |
| 327 | Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger. Journal of Instrumentation, 2020, 15, P11016-P11016. | 1.2 | 4 |
| 328 | 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. | 4.7 | 4 |
| 329 | 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. | 3.9 | 4 |
| 330 | Measurement of K_S^0 and 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. | 3.9 | 4 |
| 331 | Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \mu^{\pm} \nu_{\mu} (\rightarrow \pi^{\pm} \nu_{\pi}) u_{\mu} \bar{u}_{\mu}$ events in Run2 data. European Physical Journal C, 2022, 82, 1. | 3.9 | 4 |
| 332 | 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. | 4.7 | 4 |
| 333 | 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. | 4.7 | 4 |
| 334 | Inclusive search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV using razor variables and boosted object identification in zero and one lepton final states. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 3 |
| 335 | Search for excited leptons in μ^{\pm}, τ^{\pm} final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 3 |
| 336 | 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. | 3.9 | 3 |
| 337 | Measurements of inclusive and differential cross-sections of combined $t\bar{t}\gamma$ and $t\bar{t}W^{\pm}$ production in the $e\bar{\nu}_e$ channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 3 |
| 338 | 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. | 4.7 | 3 |
| 339 | Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 3 |
| 340 | Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents. Journal of Instrumentation, 2021, 16, P08025. | 1.2 | 3 |
| 341 | 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. | 4.7 | 3 |
| 342 | Two-particle Bose-Einstein correlations in $\{pp\}$ collisions at $\sqrt{s} = 13$ TeV measured with the ATLAS detector at the LHC. European Physical Journal C, 2022, 82, . | 3.9 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 343 | 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. | 4.7 | 2 |
| 344 | Measurement of the energy asymmetry in $t\bar{t}$ production at $\sqrt{s} = 13$ TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, . | 3.9 | 2 |
| 345 | Operation and performance of the ATLAS semiconductor tracker in LHC Run 2. Journal of Instrumentation, 2022, 17, P01013. | 1.2 | 1 |
| 346 | A search for an unexpected asymmetry in the production of e^+e^- and e^+e^- pairs in proton-proton collisions recorded by the ATLAS detector at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 830, 137106. | 4.1 | 1 |