

# Chav Chhiv Chau

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6247561/publications.pdf>

Version: 2024-02-01

398  
papers

18,610  
citations

12322

69  
h-index

24961

109  
g-index

425  
all docs

425  
docs citations

425  
times ranked

9259  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.   | 1.4 | 6         |
| 2  | 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         |
| 3  | 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         |
| 4  | Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb <sup>-1</sup> of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.   | 1.6 | 37        |
| 5  | 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        |
| 6  | Measurements of WH and ZH production in the $H \rightarrow \bar{b}b$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.  | 1.4 | 38        |
| 7  | 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.   | 1.6 | 18        |
| 8  | 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        |
| 9  | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb <sup>-1</sup> of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.   | 1.6 | 19        |
| 10 | 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         |
| 11 | 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        |
| 12 | 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        |
| 13 | 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.  | 1.4 | 18        |
| 14 | 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        |
| 15 | 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 <sup>-1</sup> of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 1.4 | 40        |
| 16 | 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.  | 1.6 | 18        |
| 17 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $e^+e^- \rightarrow e^+e^- H H$ and $e^+e^- \rightarrow e^+e^- W W$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.                    | 1.4 | 26        |
| 18 | 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        |

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|----|--|-----|-----------|
| 19 | Measurements of $W+W\hat{a}^{\sim}+ \hat{a}^{\sim} \rightarrow 1$ 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         |
| 20 | 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.  | 1.6 | 46        |
| 21 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s}=13,ext \{TeV\}$ . European Physical Journal C, 2021, 81, 1.  | 1.4 | 14        |
| 22 | 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. | 1.6 | 27        |
| 23 | Search for supersymmetry in events with four or more charged leptons in $139 \text{ fb}^{-1}$ of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.                           | 1.6 | 12        |
| 24 | 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        |
| 25 | 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         |
| 26 | 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         |
| 27 | 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        |
| 28 | 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        |
| 29 | Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8,ext \{TeV\}$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.                               | 1.4 | 3         |
| 30 | 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        |
| 31 | 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        |
| 32 | 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         |
| 33 | 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        |
| 34 | 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         |
| 35 | 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        |
| 36 | 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         |

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|----|--|-----|-----------|
| 37 | 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.   | 1.6 | 10        |
| 38 | 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        |
| 39 | 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         |
| 40 | 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        |
| 41 | Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.  | 1.4 | 7         |
| 42 | Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.   | 1.6 | 3         |
| 43 | Measurements of inclusive and differential cross-sections of combined $t\bar{t}\gamma$ and $t\bar{t}W^{\pm}$ production in the $e^{\pm}\nu$ channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.                              | 1.6 | 3         |
| 44 | Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, 1.  | 1.6 | 17        |
| 45 | 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        |
| 46 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $4\ell$ decay channel at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.  | 1.4 | 32        |
| 47 | Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{\langle\mathbf{s}\rangle_{\langle\mathbf{NN}\rangle}} = 5.02$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.   | 1.6 | 28        |
| 48 | 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        |
| 49 | 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         |
| 50 | 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         |
| 51 | 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.   | 1.6 | 11        |
| 52 | 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        |
| 53 | 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        |
| 54 | 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        |

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|----|--|-----|-----------|
| 55 | 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         |
| 56 | 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.   | 1.4 | 22        |
| 57 | 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        |
| 58 | Higgs boson production cross-section measurements and their EFT interpretation in the $4\ell$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.  | 1.4 | 41        |
| 59 | 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        |
| 60 | Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb <sup>-1</sup> of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.  | 1.6 | 19        |
| 61 | 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         |
| 62 | Measurement of the $Z(\gamma^* \rightarrow e^+e^-, \mu^+\mu^-)$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.   | 1.6 | 9         |
| 63 | 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         |
| 64 | 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        |
| 65 | Measurement of $J/\psi$ production in association with a $W^{\pm}$ boson with pp data at 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.   | 1.6 | 10        |
| 66 | Search for new resonances in mass distributions of jet pairs using 139 fb <sup>-1</sup> of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.  | 1.6 | 68        |
| 67 | 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        |
| 68 | Reconstruction and identification of boosted di- $\tilde{l}$ 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         |
| 69 | Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.   | 1.4 | 93        |
| 70 | 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       |
| 71 | Search for top squarks in events with a Higgs or Z boson using 139 fb <sup>-1</sup> of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.   | 1.4 | 4         |
| 72 | Evidence for $\text{Star}t\text{-}t$ 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        |

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|----|--|-----|-----------|
| 73 | 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        |
| 74 | 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        |
| 75 | 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        |
| 76 | Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.  | 1.4 | 12        |
| 77 | 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        |
| 78 | 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        |
| 79 | 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        |
| 80 | 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        |
| 81 | 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         |
| 82 | Measurement of $W^{\pm}Z$ production cross sections and gauge boson polarisation in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.  | 1.4 | 41        |
| 83 | 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        |
| 84 | 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        |
| 85 | Search for diboson resonances in hadronic final states in $139 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.                                      | 1.6 | 20        |
| 86 | 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, .   | 1.4 | 4         |
| 87 | 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        |
| 88 | 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        |
| 89 | 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        |
| 90 | 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        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 91  | 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         |
| 92  | 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        |
| 93  | Search for top-quark decays $t \rightarrow Hq$ with $36 \text{ fb}^{-1}$ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.   | 1.6 | 19        |
| 94  | Measurement of $VH$ , $\text{H} \rightarrow \text{b}\bar{\text{b}}$ 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        |
| 95  | Measurements of W and Z boson production in pp collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.  | 1.4 | 17        |
| 96  | Performance of top-quark and W-boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1.   | 1.4 | 42        |
| 97  | Measurements of inclusive and differential fiducial cross-sections of $\text{t}\bar{\text{t}}\gamma$ production in leptonic final states at $\sqrt{s} = 13$ TeV in ATLAS. European Physical Journal C, 2019, 79, 1.                        | 1.4 | 14        |
| 98  | Electron and photon energy calibration with the ATLAS detector using 2015–2016 LHC proton-proton collision data. Journal of Instrumentation, 2019, 14, P03017-P03017.  | 0.5 | 37        |
| 99  | 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        |
| 100 | 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. Journal of High Energy Physics, 2019, 2019, 1.          | 1.6 | 39        |
| 101 | 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        |
| 102 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. European Physical Journal C, 2019, 79, 1.   | 1.4 | 46        |
| 103 | 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         |
| 104 | Measurement of the top quark mass in the $\text{t}\bar{\text{t}} \rightarrow \text{t}\bar{\text{t}}\gamma$ . European Physical Journal C, 2019, 79, 1.   | 1.4 | 47        |
| 105 | Search for pair production of Higgs bosons in the $\text{b}\bar{\text{b}}\text{b}\bar{\text{b}}$ 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        |
| 106 | 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        |
| 107 | Measurement of the top-quark mass in $\text{t}\bar{\text{t}} + 1$ -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        |
| 108 | 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 |
|-----|---|-----|-----------|
| 109 | Measurement of ZZ production in the $\hat{a}, \hat{a}, \hat{1}/2 \hat{1}/2$ 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         |
| 110 | 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         |
| 111 | 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        |
| 112 | Measurement of $W^{\pm}$ boson production in Pb+Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.   | 1.4 | 17        |
| 113 | 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       |
| 114 | Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2019, 79, 1.    | 1.4 | 36        |
| 115 | Measurements of top-quark pair differential and double-differential cross-sections in the $ell$ $+jets$ channel with pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. European Physical Journal C, 2019, 79, 1.   | 1.4 | 34        |
| 116 | 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        |
| 117 | Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using $36 \text{ fb}^{-1}$ of ATLAS data. Journal of High Energy Physics, 2019, 2019, 1.                                   | 1.6 | 5         |
| 118 | Measurement of $K_S^0$ and $\Lambda^0$ 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         |
| 119 | Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in $36 \text{ fb}^{-1}$ of pp collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 116       |
| 120 | Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $s = 13$ TeV with ATLAS. Journal of High Energy Physics, 2018, 2018, 1.                                   | 1.6 | 17        |
| 121 | Measurement of the W-boson mass in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 110.   | 1.4 | 218       |
| 122 | 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        |
| 123 | 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        |
| 124 | Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ and $5.0$ TeV. European Physical Journal C, 2018, 78, 142.   | 1.4 | 59        |
| 125 | Measurement of quarkonium production in proton-lead and proton-proton collisions at $5.02$ TeV with the ATLAS detector. European Physical Journal C, 2018, 78, 171.   | 1.4 | 75        |
| 126 | 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        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 127 | Search for heavy ZZ resonances in the $e^+e^-e^+e^-$ $\bar{\nu}_\mu + \bar{\nu}_\mu - \bar{\nu}_\mu + \bar{\nu}_\mu$ - and $e^+e^-e^+e^-$ $\bar{\nu}_\mu + \bar{\nu}_\mu$ 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       |
| 128 | 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        |
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| 251 | Search for flavour-changing neutral current top-quark decays to $qZ$ in $pp$ collision data collected with the ATLAS detector at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 12.   | 1.4 | 39        |
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| 387 | Measurement of the centrality and pseudorapidity dependence of the integrated elliptic flow in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ ATeV with the ATLAS detector. European Physical Journal C, 2014, 74, 2982.   | 1.4 | 22        |
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| 389 | Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.   | 1.6 | 88        |
| 390 | Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.  | 1.6 | 59        |
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| 392 | 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. Journal of High Energy Physics, 2014, 2014, 1.  | 1.6 | 45        |
| 393 | Measurement of the low-mass Drell-Yan differential cross section at $\sqrt{s} = 7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.  | 1.6 | 25        |
| 394 | Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.   | 1.6 | 59        |
| 395 | Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.  | 1.6 | 10        |
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| 397 | 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        |
| 398 | Measurement of the $\overline{t}$ production cross-section using (em) events with (b)-tagged jets in (pp) collisions at ( $\sqrt{s}=7$ ) and 8 TeV with the ATLAS detector. , 2014, 74, 1.                                     |     | 2         |