

## List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set<br>at \$\$sqrt{s}=13\$\$ TeV. European Physical Journal C, 2021, 81, 1.  | 3.9 | 82        |
| 2  | Jet energy scale and resolution measured in proton–proton collisions at \$\$sqrt{s}=13\$\$ÂTeV with the<br>ATLAS detector. European Physical Journal C, 2021, 81, 1.   | 3.9 | 64        |
| 3  | Search for charged Higgs bosons decaying into a top quark and a bottom quark at \$\$<br>sqrt{mathrm{s}} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.  | 4.7 | 46        |
| 4  | Higgs boson production cross-section measurements and their EFT interpretation in the \$\$4ell \$\$<br>decay channel at \$\$sqrt{s}=\$\$13ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.  | 3.9 | 41        |
| 5  | Search for heavy resonances decaying into a pair of Z bosons in the \$\$ell ^+ell ^-ell '^+ell '^-\$\$ and<br>\$\$ell ^+ell ^-u {{ar{u }}}\$ final states using 139 \$\$mathrm {fb}^{-1}\$\$ of proton–proton<br>collisions at \$\$sqrt{s} = 13,\$\$TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 40        |
| 6  | Measurements of WH and ZH production in the \$\$H ightarrow bar{b}\$\$ decay channel in pp<br>collisions at \$\$13,ext {Te}ext {V}\$\$ with the ATLAS detector. European Physical Journal C, 2021, 81,<br>1.   | 3.9 | 38        |
| 7  | Search for squarks and gluinos in final states with jets and missing transverse momentum using 139<br>fbâ~'1 of \$\$ sqrt{s} \$\$ = 13 TeV pp collision data with the ATLAS detector. Journal of High Energy<br>Physics, 2021, 2021, 1.  | 4.7 | 37        |
| 8  | Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in \$\$ sqrt{s} \$\$<br>= 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.  | 4.7 | 36        |
| 9  | Search for a scalar partner of the top quark in the all-hadronic \$\$t{ar{t}}\$\$ plus missing<br>transverse momentum final state at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical<br>Journal C, 2020, 80, 1.  | 3.9 | 36        |
| 10 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4\$\$ell \$\$<br>decay channel at \$\$sqrt{s}\$\$ = 13 TeV. European Physical Journal C, 2020, 80, 1.  | 3.9 | 32        |
| 11 | Evidence for \$\$tar{t}tar{t}\$\$ production in the multilepton final state in proton–proton<br>collisions at \$\$sqrt{s}=13\$\$Â\$\$ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C,<br>2020, 80, 1.   | 3.9 | 30        |
| 12 | Search for heavy diboson resonances in semileptonic final states in pp collisions at<br>\$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.  | 3.9 | 29        |
| 13 | Search for chargino–neutralino pair production in final states with three leptons and missing<br>transverse momentum in \$\$sqrt{s} = 13\$\$ÂTeV pp collisions with the ATLAS detector. European<br>Physical Journal C, 2021, 81, 1.   | 3.9 | 28        |
| 14 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a<br>Ï"-lepton in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy<br>Physics, 2021, 2021, 1.   | 4.7 | 27        |
| 15 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the \$\$ell<br>ell bb\$\$ and \$\$ell ell WW\$\$ final states in pp collisions at \$\$sqrt{s}=13\$\$Â\$\$ext {TeV}\$\$ with the<br>ATLAS detector. European Physical Journal C, 2021, 81, 1.                                       | 3.9 | 26        |
| 16 | Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector.<br>Journal of High Energy Physics, 2020, 2020, 1.  | 4.7 | 24        |
| 17 | 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{mathrm{s}} \$\$ = 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.  | 4.7 | 23        |
| 18 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.   | 2.9 | 23        |

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|----|--|-----|-----------|
| 19 | Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse<br>momentum in pp collisions at \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV with the ATLAS detector. Journal of<br>High Energy Physics, 2021, 2021, 1.               | 4.7 | 22        |
| 20 | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nbâ^'1 of Pb+Pb<br>data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.  | 4.7 | 19        |
| 21 | Search for dark matter in association with an energetic photon in pp collisions at \$\$ sqrt{s} \$\$ = 13<br>TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.   | 4.7 | 18        |
| 22 | Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons<br>and top quarks in proton–proton collisions at \$\$sqrt{s}\$\$ = 13ÂTeV with the ATLAS detector.<br>European Physical Journal C, 2021, 81, 1.           | 3.9 | 18        |
| 23 | Search for new phenomena in final states with b-jets and missing transverse momentum in \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.   | 4.7 | 18        |
| 24 | 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        |
| 25 | Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at \$\$ sqrt{s} = 13,{ext {TeV}} \$\$ with the ATLAS detector. European Physical Journal C, 2021, 81, 1.  | 3.9 | 17        |
| 26 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13ÂTeV proton–proton collisions. European Physical Journal C, 2021, 81, 1.   | 3.9 | 15        |
| 27 | 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        |
| 28 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production<br>with the ATLAS experiment at \$\$sqrt{s}=13,ext {TeV}\$\$. European Physical Journal C, 2021, 81, 1.   | 3.9 | 14        |
| 29 | Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic<br>channel in pp collisions at \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV using the ATLAS detector. Journal of High<br>Energy Physics, 2021, 2021, 1.              | 4.7 | 14        |
| 30 | Search for \$\$ toverline{t} \$\$ resonances in fully hadronic final states in pp collisions at \$\$ sqrt{s}<br>\$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.  | 4.7 | 14        |
| 31 | Measurement of the c-jet mistagging efficiency in \$\$tar{t}\$\$Âevents using pp collision data at<br>\$\$sqrt{s}=13\$\$Â\$\$ext {TeV}\$\$ collected with the ATLAS detector. European Physical Journal C, 2022,<br>82, .                                    | 3.9 | 14        |
| 32 | Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse<br>momentum at \$\$sqrt{s}=13\$\$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.   | 3.9 | 13        |
| 33 | Observation of the associated production of a top quark and a Z boson in pp collisions at \$\$ sqrt{s}<br>\$\$= 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.   | 4.7 | 12        |
| 34 | Search for new phenomena in final states with large jet multiplicities and missing transverse<br>momentum using \$\$ sqrt{s} \$\$ = 13 TeV proton-proton collisions recorded by ATLAS in Run 2 of the<br>LHC. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 12        |
| 35 | Transverse momentum and process dependent azimuthal anisotropies in \$\$sqrt{s_{mathrm<br>{NN}}}=8.16\$\$ÂTeV p+Pb collisions with the ATLAS detector. European Physical Journal C, 2020, 80, 1.   | 3.9 | 12        |
| 36 | Differential cross-section measurements for the electroweak production of dijets in association with<br>a Z boson in proton–proton collisions at ATLAS. European Physical Journal C, 2021, 81, 1.  | 3.9 | 12        |

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| 37 | Search for supersymmetry in events with four or more charged leptons in 139 fbâ^'1 of \$\$ sqrt{s} \$\$ =<br>13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.   | 4.7 | 12        |
| 38 | Measurements of the inclusive and differential production cross sections of a top-quark–antiquark<br>pair in association with a ZÂboson at \$\$sqrt{s} = 13\$\$ÂTeV with the ATLAS detector. European Physical<br>Journal C, 2021, 81, 1.   | 3.9 | 12        |
| 39 | Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into<br>two photons in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High<br>Energy Physics, 2021, 2021, 1.  | 4.7 | 12        |
| 40 | Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.   | 3.9 | 12        |
| 41 | Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at \$\$sqrt{s} = 7\$\$, 8 and 13ÂTeV. European Physical Journal C, 2022, 82, 1.  | 3.9 | 12        |
| 42 | Measurements of the production cross-section for a Z boson in association with b-jets in<br>proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy<br>Physics, 2020, 2020, 1.   | 4.7 | 11        |
| 43 | Determination of the parton distribution functions of the proton from ATLAS measurements of<br>differential W± and Z boson production in association with jets. Journal of High Energy Physics, 2021,<br>2021, 1.   | 4.7 | 10        |
| 44 | Measurement of the t\$\$ overline{t} \$\$t\$\$ overline{t} \$\$ production cross section in pp collisions<br>at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.  | 4.7 | 10        |
| 45 | Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with<br>the ATLAS detector with 139 fbâ~1 of pp collision data at \$\$ sqrt{s} \$\$ = 13 TeV. Journal of High Energy<br>Physics, 2022, 2022, 1.                                    | 4.7 | 10        |
| 46 | Search for dark matter produced in association with a Standard Model Higgs boson decaying into<br>b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021,<br>2021, 1.  | 4.7 | 10        |
| 47 | Search for dark matter produced in association with a single top quark in \$\$sqrt{s}=13\$\$ÂTeV \$\$pp\$\$<br>collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.  | 3.9 | 9         |
| 48 | Measurements of W+Wâ^'+ ≥ 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         |
| 49 | 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         |
| 50 | Reconstruction and identification of boosted di-Ï,, systems in a search for Higgs boson pairs using 13<br>TeV proton-proton collision data in ATLAS. Journal of High Energy Physics, 2020, 2020, 1.   | 4.7 | 8         |
| 51 | 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 13Â\$\$ext {TeV}\$\$ with the ATLAS detector. European Physical Journal C, 2022, 82, 1. | 3.9 | 8         |
| 52 | 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         |
| 53 | Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the<br>ATLAS experiment using \$\$sqrt{s} = 13hbox { TeV}\$\$ proton–proton collision data. European Physical<br>Journal C, 2021, 81, 1.   | 3.9 | 7         |
| 54 | Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.   | 3.9 | 7         |

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| 55 | Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions<br>at \$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2022, 82, .   | 3.9 | 7         |
| 56 | Search for Higgs boson production in association with a high-energy photon via vector-boson fusion<br>with decay into bottom quark pairs at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High<br>Energy Physics, 2021, 2021, 1. | 4.7 | 6         |
| 57 | Performance of the ATLAS Level-1 topological trigger in RunÂ2. European Physical Journal C, 2022, 82, 1.  | 3.9 | 6         |
| 58 | A search for the decays of stopped long-lived particles at \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.   | 4.7 | 5         |
| 59 | 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         |
| 60 | The ATLAS inner detector trigger performance in pp collisions at 13ÂTeV during LHC Run 2. European<br>Physical Journal C, 2022, 82, 1.  | 3.9 | 5         |
| 61 | 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         |
| 62 | Search for top squarks in events with a Higgs or Z boson using 139Âfb\$\$^{-1}\$\$ of pp collision data at<br>\$\$sqrt{s}=13\$\$ÂTeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.   | 3.9 | 4         |
| 63 | Measurement of the energy response of the ATLASÂcalorimeter to chargedÂpions from \$\$W^{pm<br>}ightarrow au ^{pm }(ightarrow pi ^{pm }u _{au })u _{au }\$\$ events in RunÂ2 data.<br>European Physical Journal C, 2022, 82, 1.                   | 3.9 | 4         |
| 64 | 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         |
| 65 | Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at \$\$ sqrt{s} \$\$<br>= 13 TeV using displaced vertices in the ATLAS inner detector. Journal of High Energy Physics, 2021, 2021,<br>1.                   | 4.7 | 4         |
| 66 | Measurements of inclusive and differential cross-sections of combined \$\$ toverline{t}gamma \$\$ and tWγ production in the eμ channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.                          | 4.7 | 3         |
| 67 | Measurement of b-quark fragmentation properties in jets using the decay B± → J/Ĩ`K± in pp collisions at \$\$<br>sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.                                     | 4.7 | 3         |
| 68 | Search for exotic decays of the Higgs boson into b\$\$ overline{b} \$\$ and missing transverse<br>momentum in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV with the ATLAS detector. Journal of High Energy<br>Physics, 2022, 2022, 1.              | 4.7 | 2         |
| 69 | Measurement of the energy asymmetry in \$\$t{ar{t}}j\$\$ production at \$\$13,\$\$TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, .   | 3.9 | 2         |