

Wenkai Zou

List of Publications by Year in descending order

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Version: 2024-02-01

142
papers

8,310
citations

31902

53
h-index

49773

87
g-index

150
all docs

150
docs citations

150
times ranked

8002
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 \sqrt{s} TeV. European Physical Journal C, 2015, 75, 212. | 1.4 | 541 |
| 2 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076. | 1.4 | 342 |
| 3 | Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 320 |
| 4 | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 235. | 1.4 | 320 |
| 5 | Measurement of the $B_s \rightarrow B^0 \mu^+ \mu^-$ branching fraction and search for $B_s \rightarrow B^0 \mu^+ \mu^-$ decays. Physical Review Letters, 2015, 115, 012301. | 2.9 | 282 |
| 6 | Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. European Physical Journal C, 2014, 74, 3036. | 1.4 | 241 |
| 7 | Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 542. | 1.4 | 191 |
| 8 | Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3149. | 1.4 | 179 |
| 9 | Evidence for Collective Multiparticle Correlations in p -Pb collisions. Physical Review Letters, 2015, 115, 012301. | 2.9 | 177 |
| 10 | | | |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 92 |
| 20 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 147. | 1.4 | 88 |
| 21 | Evidence of b-Jet Quenching in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 113, 132301. | 2.9 | 85 |
| 22 | Study of double parton scattering using W + 2-jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 85 |
| 23 | Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 85 |
| 24 | Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 2847. | 1.4 | 85 |
| 25 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 81 |
| 26 | Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets. Physical Review Letters, 2015, 114, 051801. | 2.9 | 80 |
| 27 | Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 78 |
| 28 | Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 77 |
| 29 | Search for Top-Quark Partners with Charge $\pm 2/3$ in the Same-Sign Dilepton Final State. Physical Review Letters, 2014, 112, 171801. | 2.9 | 76 |
| 30 | Study of exclusive two-photon production of $W+W\gamma$ in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 75 |
| 31 | Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1. | 1.4 | 75 |
| 32 | Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401. | 1.4 | 74 |
| 33 | Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \bar{\psi}\psi$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 73 |
| 34 | Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251. | 1.4 | 73 |
| 35 | Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 70 |
| 36 | Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 69 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469. | 1.4 | 68 |
| 38 | Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 68 |
| 39 | Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186. | 1.4 | 68 |
| 40 | Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3129. | 1.4 | 65 |
| 41 | Measurements of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186. | 1.4 | 64 |
| 42 | Spin Correlations and Top-Quark Polarization Using Dilepton Final States in pp Collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 2.9 | 63 |
| 43 | Measurement of the $W+W$ cross section in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous WW^3 and WWZ couplings. European Physical Journal C, 2013, 73, 1. | 1.4 | 62 |
| 44 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 13. | 1.4 | 62 |
| 45 | Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 61 |
| 46 | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 13. | 1.4 | 60 |
| 47 | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 13. | 2.9 | 60 |
| 48 | Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 58 |
| 49 | Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 58 |
| 50 | Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2015, 75, 237. | 1.4 | 58 |
| 51 | Event activity dependence of Υ (nS) production in $\sqrt{s_{NN}} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 56 |
| 52 | Measurement of masses in the $\overline{t}t$ system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2494. | 1.4 | 55 |
| 53 | Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 55 |
| 54 | Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288. | 1.4 | 54 |

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 52 |
| 56 | Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 51 |
| 57 | Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, 7, 13$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 50 |
| 58 | Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1. | 1.4 | 49 |
| 59 | Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 48 |
| 60 | Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 47 |
| 61 | Search for Top Squarks in Parity-Violating Supersymmetry Using Three or More Leptons and Measurement of Prompt Paired Jets. Physical Review Letters, 2013, 111, 221801. | 2.9 | 47 |
| 62 | Yield Ratios in Pb-Pb and Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 2.9 | 47 |
| 63 | Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802. | 2.9 | 45 |
| 64 | Search for microscopic black holes in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 44 |
| 65 | Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters. Physical Review Letters, 2015, 114, 061801. | 2.9 | 44 |
| 66 | Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8, 13$ TeV. European Physical Journal C, 2015, 75, 151. | 1.4 | 44 |
| 67 | Search for pair-produced dijet resonances in four-jet final states in pp collisions at $\sqrt{s} = 8, 13$ TeV. European Physical Journal C, 2015, 75, 151. | 1.4 | 44 |
| 68 | Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8, 13$ TeV. European Physical Journal C, 2014, 74, 3060. | 2.9 | 43 |
| 69 | Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8, 13$ TeV. European Physical Journal C, 2014, 74, 3060. | 1.4 | 43 |
| 70 | Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 43 |
| 71 | Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8, 13$ TeV. European Physical Journal C, 2015, 75, 325. | 1.4 | 43 |
| 72 | Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 39 |

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 39 |
| 74 | Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 37 |
| 75 | Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2758. | 1.4 | 35 |
| 76 | Searches for supersymmetry using the M T2 variable in hadronic events produced in pp collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 34 |
| 77 | Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 33 |
| 78 | Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2674. | 1.4 | 32 |
| 79 | Measurements of the $Z \rightarrow 2\ell$ production cross sections in the $2\ell + 1/2$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. European Physical Journal C, 2015, 75, 511. | 1.4 | 32 |
| 80 | Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 31 |
| 81 | Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 66. | 1.4 | 31 |
| 82 | Measurement of the W-boson helicity in top-quark decays from $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 30 |
| 83 | Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 30 |
| 84 | 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 |
| 85 | Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 27 |
| 86 | Search for $W \rightarrow tb$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 26 |
| 87 | Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 26 |
| 88 | Measurement of the $t\bar{t}$ production cross section in the $\ell\ell + jets$ channel in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1. | 1.4 | 24 |
| 89 | Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 24 |
| 90 | Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 24 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. <i>Journal of High Energy Physics</i> , 2015, 2015, 1. | 1.6 | 24 |
| 92 | Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$ TeV in final states with b-tagged jets. <i>European Physical Journal C</i> , 2014, 74, 2973. | 1.4 | 23 |
| 93 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , 2022, 6, 1. | 1.3 | 23 |
| 94 | Search for physics beyond the standard model in events with l, \bar{l} , leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2013, 73, 2493. | 1.4 | 22 |
| 95 | Measurements of the $\overline{\sigma}(\mathbb{T})$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1. | 1.6 | 20 |
| 96 | Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1. | 1.6 | 20 |
| 97 | Meson Production in pp Collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 1.6 | 20 |
| 98 | Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 1.6 | 20 |
| 99 | Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Physical Review Letters</i> , 2013, 110, 042301. | 1.6 | 20 |
| 100 | Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021, 2021, 1. | 1.6 | 18 |
| 101 | Measurement of the Λ_b^0 lifetime in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 1.6 | 17 |
| 102 | Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1. | 1.6 | 17 |
| 103 | Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2014, 74, 2901. | 1.4 | 17 |
| 104 | Measurement of the ratio of the production cross sections times branching fractions of B_c^{\pm} and B_s^{\pm} mesons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 1.6 | 17 |
| 105 | Measurement of the $\overline{\sigma}(\mathbb{T})$ production cross section in the all-jet final state in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 1.6 | 16 |
| 106 | Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 1.6 | 16 |
| 107 | Measurement of jet multiplicity distributions in $\overline{\sigma}(\mathbb{T})$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2014, 74, 3014. | 1.4 | 16 |
| 108 | Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 1.6 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Measurement of the production cross section for $\mathcal{Z}\gamma\gamma$ in pp collisions at $\sqrt{s} = 7$ TeV and limits on $\mathcal{Z}\mathcal{Z}\mathcal{Z}$ and $\mathcal{Z}\mathcal{Z}\mathcal{Z}$ triple gauge boson couplings. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 14 |
| 110 | Measurement of the c-jet mistagging efficiency in $t\bar{t}$ events using pp collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, . | 1.4 | 14 |
| 111 | Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 12 |
| 112 | Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and 13 TeV. European Physical Journal C, 2022, 82, 1. | 1.4 | 12 |
| 113 | Measurement of the $\mathcal{Z}\mathcal{Z}$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 11 |
| 114 | Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 10 |
| 115 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential W^{\pm} and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 10 |
| 116 | Measurement of the $t\bar{t}\gamma$ 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 |
| 117 | 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. | 1.6 | 10 |
| 118 | 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 |
| 119 | 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. | 1.6 | 8 |
| 120 | Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, 1. | 1.4 | 8 |
| 121 | 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 |
| 122 | Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1. | 1.4 | 7 |
| 123 | Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, . | 1.4 | 7 |
| 124 | Comparison of the $\mathcal{Z}\mathcal{Z} + \text{jets}$ to $\mathcal{Z}\mathcal{Z} + \text{jets}$ cross sections in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 6 |
| 125 | Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 302. | 1.4 | 6 |
| 126 | Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1. | | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1. | 1.4 | 6 |
| 128 | Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 5 |
| 129 | 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 |
| 130 | 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 |
| 131 | Search for pair production of excited top quarks in the lepton + jets final state. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 4 |
| 132 | Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow u^{\pm} \rightarrow \pi^{\pm} u_{\text{had}}$ events in Run 2 data. European Physical Journal C, 2022, 82, 1. | 1.4 | 4 |
| 133 | Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 4 |
| 134 | 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 |
| 135 | Study of hadronic event-shape variables in multijet final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 3 |
| 136 | Search for $W \rightarrow tb$ in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 3 |
| 137 | Measurement of the (\overline{t}) production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8$ TeV. , 2014, 2014, 1. | | 3 |
| 138 | Measurement of b-quark fragmentation properties in jets using the decay $B_{\pm} \rightarrow J/\psi K_{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 3 |
| 139 | Search for new physics in events with same-sign dileptons and b jets in pp collisions at $(\sqrt{s}=8)$ TeV. , 2013, 2013, 1. | | 2 |
| 140 | Search for exotic decays of the Higgs boson into $b\overline{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 2 |
| 141 | Measurement of the energy asymmetry in $t\overline{t}$ production at 13 TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, . | 1.4 | 2 |
| 142 | Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 1 |