

Zhicai Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

175
papers

10,719
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41344
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times ranked

8547
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, 1. | 4.7 | 6 |
| 2 | Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, 1. | 4.7 | 5 |
| 3 | Search for long-lived particles decaying to leptons with large impact parameter in proton+proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2022, 82, 153. | 3.9 | 14 |
| 4 | Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, 1. | 4.7 | 1 |
| 5 | Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton+proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2022, 82, 290. | 3.9 | 18 |
| 6 | Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, 1. | 4.7 | 13 |
| 7 | Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. <i>Journal of High Energy Physics</i> , 2022, 2022, . | 4.7 | 5 |
| 8 | Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, 1. | 4.7 | 12 |
| 9 | Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, 1. | 4.7 | 2 |
| 10 | Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, 1. | 4.7 | 6 |
| 11 | Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, 1. | 4.7 | 5 |
| 12 | Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, 1. | 4.7 | 5 |
| 13 | Measurement of the inclusive $t\bar{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, 1. | 4.7 | 2 |
| 14 | Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, . | 4.7 | 2 |
| 15 | Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, . | 4.7 | 4 |
| 16 | Observation of $B \rightarrow D^* \pi^- \rightarrow \psi(2S) K^+ \pi^-$ and $B \rightarrow D^* \pi^- \rightarrow \psi(2S) K^+$ decays. <i>European Physical Journal C</i> , 2022, 82, . | 3.9 | 1 |
| 17 | Search for dark matter produced in association with a leptonically decaying Z boson in proton+proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 13. | 3.9 | 33 |
| 18 | Search for top squark pair production using dilepton final states in $\sqrt{s}=13$ TeV collision data collected at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 3. | 3.9 | 33 |

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|----|---|-----|-----------|
| 19 | Measurements of $\mathrm{pp} \rightarrow \mathrm{Z}\mathrm{Z}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2021, 81, 200. | 3.9 | 24 |
| 20 | Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 14 |
| 21 | Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 22 |
| 22 | Development and validation of HERWIG $\hat{\gamma}$ 7 tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312. | 3.9 | 12 |
| 23 | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2021, 81, 378. | 3.9 | 40 |
| 24 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2021, 81, 488. | 3.9 | 35 |
| 25 | A search for the decays of stopped long-lived particles at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 5 |
| 26 | Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13\text{ TeV}$. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 27 |
| 27 | MUSiC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2021, 81, 629. | 3.9 | 18 |
| 28 | Search for a heavy vector resonance decaying to a $Z\mathrm{Z}$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2021, 81, 688. | 3.9 | 9 |
| 29 | Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2021, 81, 723. | 3.9 | 19 |
| 30 | Measurements of angular distance and momentum ratio distributions in three-jet and $\ell\ell\mathrm{pp}$ final states in proton-proton collisions. European Physical Journal C, 2021, 81, 852. | 3.9 | 2 |
| 31 | Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800. | 3.9 | 123 |
| 32 | Search for dark matter produced in association with a single top quark in proton-proton collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1. | 3.9 | 9 |
| 33 | Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2021, 81, 970. | 3.9 | 18 |
| 34 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $\ell\ell\mathrm{pp}$ decay channel at $\sqrt{s} = 13\text{ TeV}$. European Physical Journal C, 2020, 80, 1. | 3.9 | 32 |
| 35 | Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$. Journal of Instrumentation, 2020, 15, P02027-P02027. | 1.2 | 27 |
| 36 | Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2020, 80, 752. | 3.9 | 23 |

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|----|--|-----|-----------|
| 37 | Measurements of top-quark pair spin correlations in the emu channel at $\sqrt{s} = 13\text{TeV}$ using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 22 |
| 38 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. Journal of Instrumentation, 2020, 15, P10017-P10017. | 1.2 | 84 |
| 39 | Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 21 |
| 40 | Higgs boson production cross-section measurements and their EFT interpretation in the 4ℓ decay channel at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 41 |
| 41 | Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 20 |
| 42 | Search for direct pair production of supersymmetric partners to the $\tau^+ \tau^-$ lepton in proton-proton collisions at $\sqrt{s}=13\text{TeV}$. European Physical Journal C, 2020, 80, 189. | 3.9 | 22 |
| 43 | Evidence for $W^+ W^-$ production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. European Physical Journal C, 2020, 80, 1. | 3.9 | 10 |
| 44 | Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13\text{TeV}$. European Physical Journal C, 2020, 80, 75. | 3.9 | 78 |
| 45 | Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13\text{TeV}$. European Physical Journal C, 2020, 80, 3. | 3.9 | 70 |
| 46 | 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 |
| 47 | Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 14 |
| 48 | A multi-dimensional search for new heavy resonances decaying to boosted $W^+ W^-$ boson pairs in the dijet final state at 13TeV . European Physical Journal C, 2020, 80, 237. | 3.9 | 31 |
| 49 | Measurement of $t\bar{t}$ normalised multi-differential cross sections in $\sqrt{s}=13\text{TeV}$ collisions and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1. | 3.9 | 33 |
| 50 | Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13\text{TeV}$ and decaying into collimated leptons or light hadrons with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 21 |
| 51 | Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1. | 3.9 | 36 |
| 52 | Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s} = 13\text{TeV}$ pp collision data collected by the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 49 |
| 53 | Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13\text{TeV}$. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 17 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1. | 3.9 | 346 |
| 58 | Search for the pair production of light top squarks in the $e\bar{e}\rightarrow t\bar{t}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 5 |
| 59 | Combined measurements of Higgs boson couplings in proton+proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421. | 3.9 | 355 |
| 60 | Measurements of the pp $t\bar{t}$, WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 14 |
| 61 | 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 |
| 62 | Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton+proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 280. | 3.9 | 29 |
| 63 | 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 |
| 64 | 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 |
| 65 | Search for $t\bar{t}H$ production in the $H\rightarrow b\bar{b}$ decay channel with leptonic $t\bar{t}$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 28 |
| 66 | 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. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 12 |
| 67 | 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. | 3.9 | 25 |
| 68 | Measurement of ZZ production in the $\ell^+\ell^-\ell^+\ell^-$ 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 |
| 69 | 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 |
| 70 | 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 |
| 71 | Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 28 |
| 72 | Measurement of the Splitting Function in $\int \frac{d^2 p}{(2\pi)^2} \delta(p^2 - m^2) \delta(p_T - p_T^*) \delta(p_T - p_T^*)$ and Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2018, 120, 142302. | 7.8 | 70 |

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|----|--|-----|-----------|
| 73 | Pseudorapidity distributions of charged hadrons in proton-lead collisions at $s_{NN} = 5.02 \text{ TeV}$ and 8.16 TeV . Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 8 |
| 74 | Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b} \rightarrow Z^+ Z^-$ final state in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 36 |
| 75 | Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $s = 13 \text{ TeV}$. European Physical Journal C, 2018, 78, 291. | 3.9 | 27 |
| 76 | Measurements of the $Z \rightarrow p\bar{p}$ production cross section and the $Z \rightarrow 4l$ branching fraction, and constraints on anomalous triple gauge couplings. European Physical Journal C, 2018, 78, 165. | 3.9 | 52 |
| 77 | Measurement of associated $Z + \text{charm}$ production in proton-proton collisions at $s = 8 \text{ TeV}$. European Physical Journal C, 2018, 78, 287. | 3.9 | 16 |
| 78 | Measurement of the inclusive $t\bar{t}$ cross section in pp collisions at $s = 5.02 \text{ TeV}$ using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 5 |
| 79 | Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb^{-1} of $s = 13 \text{ TeV}$ pp collisions with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 40 |
| 80 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 5 |
| 81 | Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 6 |
| 82 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 63 |
| 83 | Measurement of differential cross sections in the kinematic angular variable $\tilde{\ell}^*$ for inclusive Z boson production in pp collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 4 |
| 84 | Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $s = 5.02 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 12 |
| 85 | Measurement of normalized differential $t\bar{t}$ cross sections in the dilepton channel from pp collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 18 |
| 86 | Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 87 | Search for ZZ resonances in the $2\tilde{l}^+$ final state in proton-proton collisions at 13 TeV . Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 4 |
| 88 | Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ \rightarrow 4l$ decay channel at $s = 13 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 46 |
| 89 | Search for $t\bar{t}$ production in the all-jet final state in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 20 |
| 90 | Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 11 |

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|-----|---|-----|-----------|
| 91 | Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 43 |
| 92 | 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 |
| 93 | Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 29 |
| 94 | Measurement of the top quark mass with lepton+jets final states using $\mathrm{p} \mathrm{p}$ collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 891. | 3.9 | 34 |
| 95 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 57 |
| 96 | Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018, 78, 995. | 3.9 | 125 |
| 97 | Search for $Z\tilde{l}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 17 |
| 98 | Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 14 |
| 99 | Measurement of differential cross sections for $Z\tilde{l}^3$ resonances and quantum black holes to $e\tilde{l}^1$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 965. | 3.9 | 39 |
| 100 | Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\tilde{l}$, “2q final states at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 8 |
| 101 | Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\tilde{l}^1$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 9 |
| 102 | Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb^{-1} of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 48 |
| 103 | Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 67 |
| 104 | Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 25 |
| 105 | Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 13 |
| 106 | Search for dark matter produced in association with a Higgs boson decaying to $\tilde{l}^3\tilde{l}^3$ or $\tilde{l}, +\tilde{l}, \tilde{\chi}$ at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 12 |
| 107 | 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. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 11 |
| 108 | Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\overline{q}q\overline{q}$ final state. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 10 |

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|-----|---|-----|-----------|
| 109 | Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 31 |
| 110 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying ℓ , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 38 |
| 111 | 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 |
| 112 | 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 |
| 113 | Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 62 |
| 114 | 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 |
| 115 | Search for Narrow Resonances in the $b\bar{b}$ -Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 7.8 | 36 |
| 116 | Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 120, 202301. | 7.8 | 70 |
| 117 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 42 |
| 118 | Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 136 |
| 119 | Jet properties in PbPb and pp collisions at $\sqrt{s}_{\text{NN}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 13 |
| 120 | Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2018, 78, 18. | 3.9 | 60 |
| 121 | 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 |
| 122 | Search for the $X \rightarrow 5568$ resonance in $t\bar{t}$ production at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 47. | 3.9 | 44 |
| 123 | Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b -jets in 36 fb^{-1} of $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. Physical Review Letters, 2018, 119, 241801. | 1 | 1 |
| 124 | Measurements of the $(p_T^{\text{miss}})^2 \rightarrow Z \rightarrow l^+l^-$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 119, 241801. | 3 | 3 |
| 125 | Observation of Top Quark Production in Proton-Nucleus Collisions. Physical Review Letters, 2017, 119, 242001. | 7.8 | 23 |
| 126 | Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at $s = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 31 |

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|-----|--|-----|-----------|
| 127 | Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s} = 13 \text{ TeV}$ $p p$ collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 144. | 3.9 | 12 |
| 128 | Measurement of the $Z Z$ production cross section in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ using the $Z Z \rightarrow \ell^+ \ell^- \ell^+ \ell^-$ and $Z Z \rightarrow \ell^+ \ell^- \nu \bar{\nu}$ decay channels with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1. | 3.9 | 12 |
| 129 | Search for dark matter at $\sqrt{s} = 13 \text{ TeV}$ in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. European Physical Journal C, 2017, 77, 393. | 3.9 | 80 |
| 130 | Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13 \text{ TeV}$ $p p$ collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898. | 3.9 | 50 |
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