

Emanuele Usai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2070962/publications.pdf>

Version: 2024-02-01

308
papers

12,267
citations

26630

56
h-index

40979

93
g-index

312
all docs

312
docs citations

312
times ranked

8704
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. Journal of High Energy Physics, 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. Journal of High Energy Physics, 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. European Physical Journal C, 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. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 1 |
| 5 | End-to-end jet classification of boosted top quarks with the CMS open data. Physical Review D, 2022, 105, . | 4.7 | 1 |
| 6 | Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290. | 3.9 | 18 |
| 7 | 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. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 13 |
| 8 | 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. Journal of High Energy Physics, 2022, 2022, . | 4.7 | 5 |
| 9 | Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 12 |
| 10 | 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. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 2 |
| 11 | Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 6 |
| 12 | Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 5 |
| 13 | Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 5 |
| 14 | Measurement of the inclusive $\overline{\text{t}}\text{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 2 |
| 15 | 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. Journal of High Energy Physics, 2022, 2022, . | 4.7 | 2 |
| 16 | Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, . | 4.7 | 4 |
| 17 | Observation of $B^0 \rightarrow \text{supersymmetry}(2S)K^0_{\text{up}} + \text{up}^+$ and $B^0_{\text{up}} \rightarrow \text{supersymmetry}(2S)K^0_{\text{up}} + \text{up}^+$ decays. European Physical Journal C, 2022, 82, . | 3.9 | 1 |
| 18 | Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 13. | 3.9 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Search for top squark pair production using dilepton final states in $\{p\}\{p\}$ collision data collected at $\sqrt{s}=13,\text{TeV}$. European Physical Journal C, 2021, 81, 3. | 3.9 | 33 |
| 20 | Measurements of $\{p\}\{p\} \rightarrow \{Z\}\{Z\}$ 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 |
| 21 | Development and validation of HERWIG ⁷ tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312. | 3.9 | 12 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | Search for a heavy vector resonance decaying to a $\{Z\}_\{\mathcal{N}\}^{\mathcal{N}}$ 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 |
| 27 | 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 |
| 28 | Measurements of angular distance and momentum ratio distributions in three-jet and $\{Z\}$ + two-jet final states in $\{p\}\{p\}$ collisions. European Physical Journal C, 2021, 81, 852. | 3.9 | 2 |
| 29 | 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 |
| 30 | 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 |
| 31 | End-to-end jet classification of quarks and gluons with the CMS Open Data. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 977, 164304. | 1.6 | 20 |
| 32 | A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10. | 2.9 | 21 |
| 33 | 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 |
| 34 | Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13\text{ TeV}$. Journal of Instrumentation, 2020, 15, P05002-P05002. | 1.2 | 3 |
| 35 | Study of central exclusive "Equation missing" \rightarrow production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13TeV . European Physical Journal C, 2020, 80, 718. | 3.9 | 7 |
| 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017. | 1.2 | 84 |
| 38 | 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 |
| 39 | Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 20 |
| 40 | Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 189. | 3.9 | 22 |
| 41 | Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV. European Physical Journal C, 2020, 80, 534. | 3.9 | 14 |
| 42 | Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 43. | 3.9 | 11 |
| 43 | Evidence for W production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ 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 $\sqrt{s} = 13$ 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 $\sqrt{s} = 13$ 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 $\sqrt{s} = 13$ 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 boson pairs in the dijet final state at 13 TeV. European Physical Journal C, 2020, 80, 237. | 3.9 | 31 |
| 49 | Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164. | 3.9 | 5 |
| 50 | Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 370. | 3.9 | 22 |
| 51 | Measurement of normalised multi-differential cross sections in pp collisions at $\sqrt{s} = 13$ TeV, 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 |
| 52 | Deep Learning the Morphology of Dark Matter Substructure. Astrophysical Journal, 2020, 893, 15. | 4.5 | 29 |
| 53 | Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 17 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$, ext {TeV} \$. European Physical Journal C, 2019, 79, 702. | 3.9 | 33 |
| 56 | Measurement of exclusive Υ photoproduction from protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$, ext {TeV} \$. European Physical Journal C, 2019, 79, 277. | 3.9 | 35 |
| 57 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13$, ext {TeV} \$. European Physical Journal C, 2019, 79, 564. | 3.9 | 50 |
| 58 | Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313. | 3.9 | 40 |
| 59 | Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV collisions at $\sqrt{s} = 13$, ext {TeV} \$. European Physical Journal C, 2019, 79, 773. | 3.9 | 8 |
| 60 | Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 305. | 3.9 | 4 |
| 61 | Search for the pair production of light top squarks in the $e^+e^- \rightarrow t\bar{t}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 5 |
| 62 | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 421. | 3.9 | 355 |
| 63 | Search for supersymmetry in events with a photon, jets, b -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 444. | 3.9 | 11 |
| 64 | Measurements of the $pp \rightarrow WZ$ 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 |
| 65 | Measurement of the $t\bar{t} \rightarrow t\bar{t} \gamma$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 368. | 3.9 | 68 |
| 66 | Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 1. | 3.9 | 12 |
| 67 | Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 280. | 3.9 | 29 |
| 68 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 364. | 3.9 | 48 |
| 69 | Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 90. | 3.9 | 34 |
| 70 | Study of the underlying event in top quark pair production in pp collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 123. | 3.9 | 11 |
| 71 | Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 94. | 3.9 | 20 |
| 72 | Search for $t\bar{t} \rightarrow t\bar{t} H$ 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 |

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | 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 |
| 74 | Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$ $s = 13$ TeV. European Physical Journal C, 2019, 79, 20. | 3.9 | 18 |
| 75 | Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in $\mathbb{p}\mathbb{p}$ collisions at $\sqrt{s} = 8, \text{ext } \{ \text{TeV} \}$. European Physical Journal C, 2019, 79, 969. | 3.9 | 6 |
| 76 | 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 |
| 77 | Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$. European Physical Journal C, 2019, 79, 893. | 3.9 | 12 |
| 78 | Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$. European Physical Journal C, 2019, 79, 886. | 3.9 | 16 |
| 79 | 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 |
| 80 | Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7, \text{ext } \{ \text{TeV} \}$. European Physical Journal C, 2018, 78, 242. | 3.9 | 10 |
| 81 | Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 8 |
| 82 | Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\gamma\gamma$ final state in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 36 |
| 83 | Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$ TeV. European Physical Journal C, 2018, 78, 291. | 3.9 | 27 |
| 84 | Measurements of the $\mathbb{p}\mathbb{p} \rightarrow \mathbb{Z}\mathbb{p}\mathbb{p}$ production cross section and the $\mathbb{Z} \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165. | 3.9 | 52 |
| 85 | Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8, \text{ext } \{ \text{TeV} \}$ TeV. European Physical Journal C, 2018, 78, 287. | 3.9 | 16 |
| 86 | Measurement of the inclusive $\mathbb{t}\bar{\mathbb{t}}$ cross section in pp collisions at $\sqrt{s} = 5.02$ TeV using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 5 |
| 87 | Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 0 |
| 88 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 5 |
| 89 | Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 6 |
| 90 | Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 57 |

| # | ARTICLE | IF | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 63 |
| 92 | Measurement of differential cross sections in the kinematic angular variable $\tilde{\theta}^*$ for inclusive Z boson production in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 4 |
| 93 | Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 12 |
| 94 | Measurement of normalized differential $\overline{\sigma}(\text{t})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 18 |
| 95 | Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 96 | Search for ZZ resonances in the $2\hat{a}, "2\hat{1}/2$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 4 |
| 97 | Search for $\overline{\text{t}}\text{H}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 20 |
| 98 | Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 11 |
| 99 | Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 43 |
| 100 | Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 12 |
| 101 | Measurement of the top quark mass with lepton+jets final states using $\text{p}\overline{\text{p}}\text{ collisions at } \sqrt{s}=13, \text{ext \{TeV\}} \text{ TeV}$. European Physical Journal C, 2018, 78, 891. | 3.9 | 34 |
| 102 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 57 |
| 103 | Search for $Z\hat{1}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 104 | Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 14 |
| 105 | Machine Learning in High Energy Physics Community White Paper. Journal of Physics: Conference Series, 2018, 1085, 022008. | 0.4 | 94 |
| 106 | Search for third-generation scalar leptoquarks decaying to a top quark and a $\text{Au } \hat{1}, \text{ lepton at } \sqrt{s}=13, \text{ext \{Te\}} \text{ext \{V\}} \text{ Te}$. European Physical Journal C, 2018, 78, 707. | 3.9 | 46 |
| 107 | Measurement of differential cross sections for $\text{ext \{Z\}} \text{ Z boson production in association with jets in proton-proton collisions at } \sqrt{s} = 13, \text{ext \{TeV\}} \text{ TeV}$. European Physical Journal C, 2018, 78, 965. | 3.9 | 39 |
| 108 | Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\hat{a}, "2q$ final states at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 697. | 3.9 | 17 |
| 110 | Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\gamma$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 9 |
| 111 | Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789. | 3.9 | 40 |
| 112 | Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1. | 3.9 | 9 |
| 113 | Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 25 |
| 114 | Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 13 |
| 115 | Measurement of the $\sigma(\text{Z}/\gamma \rightarrow \mu\mu)$ cross section in pp collisions at $\sqrt{s}=13$ TeV and validation of $\sigma(\text{Z}/\gamma \rightarrow \mu\mu)$. European Physical Journal C, 2018, 78, 708. | 3.9 | 10 |
| 116 | Search for dark matter produced in association with a Higgs boson decaying to $\tau\tau$ or $\tau\nu$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 12 |
| 117 | Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 11 |
| 118 | Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u}q\bar{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 10 |
| 119 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $p\bar{p}$ collisions at 8 TeV. European Physical Journal C, 2018, 78, 701. | 3.9 | 58 |
| 120 | Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s}=5.02$ TeV collisions at $\sqrt{s}=5.02$ TeV. European Physical Journal C, 2018, 78, 509. | 3.9 | 83 |
| 121 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $t\bar{t}$, leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 38 |
| 122 | Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1. | 3.9 | 17 |
| 123 | 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 |
| 124 | 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 |
| 125 | Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 62 |
| 126 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 42 |
| 128 | Jet properties in PbPb and pp collisions at $\sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 13 |
| 129 | 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 |
| 130 | Measurements of the $(\mathrm{p})\mathrm{p}\rightarrow\mathrm{Z}\mathrm{Z}$ production cross section and the $(\mathrm{Z}\rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $(\sqrt{s} = 13, \text{TeV})$. , 2018, 78, 1. | | 3 |
| 131 | Measurements of the $\mathrm{t}\bar{\mathrm{t}}\rightarrow\mathrm{t}\bar{\mathrm{t}}\hat{\mathrm{A}}^{-}$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15. | 3.9 | 34 |
| 132 | Measurement of the $\mathrm{t}\bar{\mathrm{t}}\rightarrow\mathrm{t}\bar{\mathrm{t}}\hat{\mathrm{A}}^{-}$ production cross section using events in the $\mathrm{e}\mu e\ell/4$ final state in pp collisions at $\sqrt{s}=13, \text{TeV}$. European Physical Journal C, 2017, 77, 172. | 3.9 | 40 |
| 133 | Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $s = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 54 |
| 134 | Search for electroweak production of charginos in final states with two $\tilde{\ell}$, leptons in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 11 |
| 135 | Measurement of the production cross section of a $\mathrm{W}\hat{\mathrm{A}}\mathrm{b}$ boson in association with two b jets in pp collisions at $\sqrt{s} = 8, \text{TeV}$. European Physical Journal C, 2017, 77, 92. | 3.9 | 16 |
| 136 | Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8, \text{TeV}$. European Physical Journal C, 2017, 77, 236. | 3.9 | 37 |
| 137 | Measurement of prompt and nonprompt J/ψ production in $\mathrm{p}\mathrm{p}$ and $\mathrm{p}\mathrm{Pb}$ collisions at $\sqrt{s_{\mathrm{NN}}}=5.02, \text{TeV}$. European Physical Journal C, 2017, 77, 269. | 3.9 | 53 |
| 138 | A search for new phenomena in pp collisions at $\sqrt{s} = 13, \text{TeV}$ in final states with missing transverse momentum and at least one jet using the α_{T} variable. European Physical Journal C, 2017, 77, 294. | 3.9 | 29 |
| 139 | Search for new physics in the monophoton final state in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 17 |
| 140 | Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459. | 3.9 | 52 |
| 141 | Measurement of the jet mass in highly boosted $\overline{\mathrm{t}}\mathrm{t}$ events from pp collisions at $\sqrt{s}=8, \text{TeV}$. European Physical Journal C, 2017, 77, 467. | 3.9 | 23 |
| 142 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $s_{\mathrm{N};\mathrm{N}}=5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 103 |
| 143 | Search for $\mathrm{t}\bar{\mathrm{t}}\hat{\mathrm{A}}^{-}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 22 |
| 144 | Search for associated production of dark matter with a Higgs boson decaying to $\mathrm{b}\bar{\mathrm{b}}\hat{\mathrm{A}}^{-}$ or $\hat{\mathrm{I}}^3$ at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 145 | Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 48 |
| 146 | Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 35 |
| 147 | Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 13 |
| 148 | Measurement of the semileptonic $t \bar{t} \rightarrow \text{t} \bar{\text{t}} + \hat{t}^3$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 11 |
| 149 | Measurements of the $pp \rightarrow \hat{t}^* \hat{W}^{\pm} \hat{t}^3$ and $pp \rightarrow \hat{t}^* \hat{Z} \hat{t}^3$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 10 |
| 150 | Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710. | 3.9 | 98 |
| 151 | Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 14 |
| 152 | Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 23 |
| 153 | Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 14 |
| 154 | Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 23 |
| 155 | Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252. | 3.9 | 82 |
| 156 | Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327. | 3.9 | 32 |
| 157 | Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 354. | 3.9 | 23 |
| 158 | Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8,$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 95 |
| 159 | Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 22 |
| 160 | Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 845. | 3.9 | 38 |
| 161 | Measurement of electroweak-induced production of $W^{\pm} \hat{t}^3$ with two jets in pp collisions at $\sqrt{s} = 8$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 17 |
| 162 | Searches for $W \rightarrow t \bar{t}$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 163 | Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 10 |
| 164 | Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 22 |
| 165 | Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 15 |
| 166 | Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 27 |
| 167 | Search for top squark pair production in pp collisions at $\sqrt{s} = 13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 31 |
| 168 | Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 15 |
| 169 | Measurement of the $t\bar{t}\hat{A}$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 15 |
| 170 | Search for a heavy resonance decaying to a top quark and a vector-like top quark at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 5 |
| 171 | Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578. | 3.9 | 57 |
| 172 | Search for top quark partners with charge 5/3 in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 3 |
| 173 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 29 |
| 174 | Measurements of jet charge with dijet events in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 17 |
| 175 | Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 21 |
| 176 | Search for new physics with dijet angular distributions in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 15 |
| 177 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 62 |
| 178 | Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 41 |
| 179 | Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 1. | 3.9 | 2 |
| 180 | Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636. | 3.9 | 38 |

| # | ARTICLE | IF | CITATIONS |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 181 | Search for high-mass $Z\bar{\nu}\nu$ resonances in $e^+e^-\bar{\nu}\nu$ and $\bar{\nu}\nu + \bar{\nu}\nu$ final states in proton-proton collisions at $\sqrt{s}=8$ TeV and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 7 |
| 182 | Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $\bar{\nu}$, leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 22 |
| 183 | Search for CP violation in $t\bar{t}\bar{\nu}\nu$ production and decay in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 4 |
| 184 | Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s}=8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746. | 3.9 | 23 |
| 185 | Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 10 |
| 186 | Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 14 |
| 187 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 101 |
| 188 | Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 751. | 3.9 | 30 |
| 189 | Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $\sqrt{s}=8$ TeV using $H\rightarrow WW$ decays. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 11 |
| 190 | Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 23 |
| 191 | Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 18 |
| 192 | Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2016, 76, 451. | 3.9 | 55 |
| 193 | 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. | 3.9 | 74 |
| 194 | Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371. | 3.9 | 33 |
| 195 | Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 17 |
| 196 | Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $e\mu$ pair in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 317. | 3.9 | 16 |
| 197 | Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 5 |
| 198 | Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 31 |

| # | ARTICLE | IF | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 199 | Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 27 |
| 200 | Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 7 |
| 201 | Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 13 |
| 202 | Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325. | 3.9 | 25 |
| 203 | Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439. | 3.9 | 64 |
| 204 | Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 536. | 3.9 | 16 |
| 205 | Search for dark matter particles in proton-proton collisions at $\sqrt{s} = 8$ TeV using the razor variables. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 4 |
| 206 | Search for s channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 14 |
| 207 | Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2016, 76, 372. | 3.9 | 29 |
| 208 | Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 19 |
| 209 | Measurement of the $t\bar{t}\gamma$ production cross section in the $e\bar{\nu}_e$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 41 |
| 210 | Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 17 |
| 211 | Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 13 |
| 212 | Evidence for exclusive $\tilde{\chi}_1^0 \tilde{\chi}_1^0 W + W \tilde{\chi}_1^0$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 42 |
| 213 | Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 14 |
| 214 | Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 460. | 3.9 | 18 |
| 215 | Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 20 |
| 216 | Phenomenological MSSM interpretation of CMS searches in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 217 | Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 6 |
| 218 | Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76, \text{ext } \{TeV\}$ $s = 2.76$ TeV. European Physical Journal C, 2016, 76, 1. | 3.9 | 26 |
| 219 | Measurement of $\overline{t}t\hat{A}^-$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8, \text{ext } \{TeV\}$ $s = 8$ TeV. European Physical Journal C, 2016, 76, 379. | 3.9 | 34 |
| 220 | Measurement of the differential cross section and charge asymmetry for inclusive $\{p\} \rightarrow \{W\}^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469. | 3.9 | 83 |
| 221 | Observation of top quark pairs produced in association with a vector boson in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 23 |
| 222 | Search for $W\hat{A}^{\pm}tb$ in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 3 |
| 223 | Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 29 |
| 224 | Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 5 |
| 225 | Search for excited leptons in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 16 |
| 226 | Measurement of the $\overline{t}t\hat{A}^-$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8, \text{ext } \{TeV\}$ $s = 8$ TeV. European Physical Journal C, 2016, 76, 128. | 3.9 | 41 |
| 227 | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155. | 3.9 | 499 |
| 228 | Search for massive WH resonances decaying into the $ell u \overline{b} \hat{A}^{\pm} \hat{A}^{\pm}$ final state at $\sqrt{s} = 8, \text{ext } \{TeV\}$ $s = 8$ TeV. European Physical Journal C, 2016, 76, 237. | 3.9 | 30 |
| 229 | 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 $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 16 |
| 230 | Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 15 |
| 231 | Search for heavy Majorana neutrinos in $e\hat{A}^{\pm}e\hat{A}^{\pm\pm}$ jets and $e\hat{A}^{\pm} \hat{A}^{\pm\pm}$ jets events in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 35 |
| 232 | Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tilde{l},$ leptons in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 19 |
| 233 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8, \text{ext } \{TeV\}$ $s = 8$ TeV. European Physical Journal C, 2016, 76, 13. | 3.9 | 62 |
| 234 | Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 235 | 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. | 4.7 | 24 |
| 236 | 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. | 4.7 | 34 |
| 237 | 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. | 4.7 | 37 |
| 238 | 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. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 20 |
| 239 | Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 81 |
| 240 | 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. | 4.7 | 12 |
| 241 | Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37. | 4.7 | 44 |
| 242 | Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 24 |
| 243 | 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. | 4.7 | 1 |
| 244 | 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. | 4.7 | 92 |
| 245 | Towards an understanding of the correlations in jet substructure. European Physical Journal C, 2015, 75, 1. | 3.9 | 103 |
| 246 | 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 TeV. European Physical Journal C, 2015, 75, 212. | 3.9 | 541 |
| 247 | Measurement of the $Z\bar{\nu}\nu$ 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. | 4.7 | 11 |
| 248 | 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. | 3.9 | 68 |
| 249 | 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. | 3.9 | 191 |
| 250 | Measurements of the $Z\bar{\nu}\nu$ production cross sections in the $2l2\bar{\nu}\nu$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. European Physical Journal C, 2015, 75, 511. | 3.9 | 32 |
| 251 | Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 30 |
| 252 | 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. | 3.9 | 73 |

| # | ARTICLE | IF | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 253 | 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. | 3.9 | 31 |
| 254 | 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. | 3.9 | 88 |
| 255 | Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 151. | 3.9 | 44 |
| 256 | 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. | 4.7 | 26 |
| 257 | Measurement of the ratio of the production cross sections times branching fractions of $B_c \rightarrow \mu^+ \mu^- \gamma$ and $B \rightarrow \mu^+ \mu^- \gamma$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 17 |
| 258 | Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 46 |
| 259 | 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. | 4.7 | 27 |
| 260 | 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. | 4.7 | 78 |
| 261 | 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. | 4.7 | 10 |
| 262 | 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. | 3.9 | 320 |
| 263 | 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. | 3.9 | 54 |
| 264 | 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. | 3.9 | 58 |
| 265 | 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. | 3.9 | 6 |
| 266 | Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 325. | 3.9 | 43 |
| 267 | 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. | 3.9 | 179 |
| 268 | Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060. | 3.9 | 43 |
| 269 | 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. | 3.9 | 65 |
| 270 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 81 |

| # | ARTICLE | IF | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 271 | 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. | 3.9 | 49 |
| 272 | 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. | 3.9 | 241 |
| 273 | Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 61 |
| 274 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076. | 3.9 | 342 |
| 275 | Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 51 |
| 276 | 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. | 4.7 | 3 |
| 277 | Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 17 |
| 278 | Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 43 |
| 279 | Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 169 |
| 280 | Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 52 |
| 281 | 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. | 4.7 | 77 |
| 282 | Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 55 |
| 283 | 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. | 4.7 | 48 |
| 284 | 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. | 3.9 | 75 |
| 285 | Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$ TeV in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973. | 3.9 | 23 |
| 286 | Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. European Physical Journal C, 2014, 74, 2980. | 3.9 | 171 |
| 287 | Measurement of jet multiplicity distributions in $\overline{t}t$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3014. | 3.9 | 16 |
| 288 | 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. | 4.7 | 85 |

| # | ARTICLE | IF | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 289 | 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. | 4.7 | 56 |
| 290 | Measurements of the $\overline{\text{t}}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 20 |
| 291 | Evidence for the 125 GeV Higgs boson decaying to a pair of \tilde{l} , leptons. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 123 |
| 292 | Search for $W\epsilon^2 \hat{t}^+$ tb decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 26 |
| 293 | 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. | 4.7 | 31 |
| 294 | Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 100 |
| 295 | 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. | 4.7 | 70 |
| 296 | 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. | 4.7 | 39 |
| 297 | Search for pair production of excited top quarks in the lepton + jets final state. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 4 |
| 298 | 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. | 4.7 | 85 |
| 299 | 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. | 4.7 | 69 |
| 300 | 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. | 3.9 | 85 |
| 301 | Probing color coherence effects in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 2901. | 3.9 | 17 |
| 302 | Measurement of the $(\overline{\text{t}})$ production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8$ TeV. , 2014, 2014, 1. | | 3 |
| 303 | Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1. | | 6 |
| 304 | Measurement of the W-boson helicity in top-quark decays from $\overline{\text{t}}$ production in lepton+jets events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 30 |
| 305 | 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. | 3.9 | 32 |
| 306 | | | |

| # | ARTICLE | IF | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 307 | 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. | 4.7 | 68 |

308