

# Piet Omer J Verwilligen

## List of Publications by Year in descending order

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Version: 2024-02-01

796  
papers

50,637  
citations

2427

97  
h-index

3261

185  
g-index

809  
all docs

809  
docs citations

809  
times ranked

12618  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61.<br>Combined Measurement of the Higgs Boson Mass in $pp$ Collisions at $\sqrt{s}=7, 8$ TeV with the ATLAS and CMS Experiments. Physical Review Letters, 2015, 114, 191803. | 4.1  | 6,177     |
| 2  | 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.  | 7.8  | 1,062     |
| 3  | Observation of long-range, near-side angular correlations in pPb collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 795-814.   | 3.9  | 541       |
| 4  | Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.  | 4.1  | 520       |
| 5  | Determination of jet energy calibration and transverse momentum resolution in CMS. Journal of Instrumentation, 2011, 6, P11002-P11002.  | 1.2  | 508       |
| 6  | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.   | 3.9  | 499       |
| 7  | Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.  | 4.7  | 497       |
| 8  | Combined results of searches for the standard model Higgs boson in $pp$ collisions at $\sqrt{s}=7, 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 26-48.  | 4.7  | 473       |
| 9  | Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC $pp$ collision data at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.   | 4.7  | 473       |
| 10 | Performance of CMS muon reconstruction in $pp$ collision events at $\sqrt{s}=7$ TeV. Journal of Instrumentation, 2012, 7, P10002-P10002.  | 1.2  | 467       |
| 11 | Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review C, 2011, 84, .   | 2.9  | 455       |
| 12 | Identification of b-quark jets with the CMS experiment. Journal of Instrumentation, 2013, 8, P04013-P04013.   | 1.2  | 418       |
| 13 | Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of Instrumentation, 2015, 10, P06005-P06005.  | 1.2  | 410       |
| 14 | Transverse-Momentum and Pseudorapidity Distributions of Charged Hadrons in $pp$ Collisions at $\sqrt{s}=7, 8$ TeV. Physical Review Letters, 2010, 105, 022002.  | 7.8  | 400       |
| 15 | Observation of the rare $B_s^0 \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. Nature, 2015, 522, 68-72.  | 27.8 | 390       |
| 16 | Description and performance of track and primary-vertex reconstruction with the CMS tracker. Journal of Instrumentation, 2014, 9, P10009-P10009.  | 1.2  | 380       |
| 17 | Study of high- $p_T$ charged particle suppression in PbPb compared to $pp$ collisions at $\sqrt{s_{NN}}=2.76$ TeV. European Physical Journal C, 2012, 72, 1.  | 3.9  | 369       |
| 18 | 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       |

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|----|--|-----|-----------|
| 19 | Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 213-240. | 4.1 | 354       |
| 20 | Particle-flow reconstruction and global event description with the CMS detector. Journal of Instrumentation, 2017, 12, P10003-P10003.  | 1.2 | 348       |
| 21 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.   | 3.9 | 342       |
| 22 | Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 320       |
| 23 | 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       |
| 24 | The CMS trigger system. Journal of Instrumentation, 2017, 12, P01020-P01020.   | 1.2 | 307       |
| 25 | Measurement of the properties of a Higgs boson in the four-lepton final state. Physical Review D, 2014, 89, .  | 4.7 | 299       |
| 26 | Measurement of the $\sigma \times \text{BR}(B \rightarrow s\gamma)$ and $\sigma \times \text{BR}(B \rightarrow s\gamma^*)$ in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.        | 7.8 | 282       |
| 27 | Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to $ZZ$ and $ZZ^*$ Boson Pairs. Physical Review Letters, 2013, 110, 081803.  | 7.8 | 270       |
| 28 | Evidence for collectivity in pp collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 193-220.   | 4.1 | 243       |
| 29 | 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       |
| 30 | Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.  | 4.7 | 230       |
| 31 | Observation of Sequential $J/\psi$ Suppression in PbPb Collisions. Physical Review Letters, 2012, 109, 222301.   | 7.8 | 220       |
| 32 | Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy. Physical Review Letters, 2011, 107, 221804.   | 7.8 | 208       |
| 33 | Suppression of non-prompt $J/\psi$ , prompt $J/\psi$ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 200       |
| 34 | 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       |
| 35 | Search for lepton-flavour-violating decays of the Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 337-362.   | 4.1 | 193       |
| 36 | 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       |

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|----|---|-----|-----------|
| 37 | Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2013, 87, .                         | 2.9 | 185       |
| 38 | Constraints on the spin-parity and anomalous $HVV$ couplings of the Higgs boson in proton collisions at 7 and 8 TeV. Physical Review D, 2015, 92, .                           | 4.7 | 185       |
| 39 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1. | 3.9 | 181       |
| 40 | 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       |
| 41 | Evidence for Collective Multiparticle Correlations in $p$ -Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2015, 115, 012301.                           | 7.8 | 177       |
| 42 |   |     |           |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\hat{t}$ and b-quark multiplicity in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2013, 73, 2568.     | 3.9 | 147       |
| 56 | Modification of jet shapes in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 243-263.   | 7.8 | 144       |
| 57 | Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of Instrumentation, 2013, 8, P09009-P09009.   | 1.2 | 140       |
| 58 | Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ collisions. Physical Review C, 2015, 92, .   | 2.9 | 140       |
| 59 | Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.  | 4.7 | 139       |
| 60 | Measurement of Long-Range Near-Side Two-Particle Angular Correlations in $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ Collisions at CMS. Physical Review Letters, 2016, 116, 172302.  | 7.8 | 139       |
| 61 | Prompt and non-prompt $J/\psi$ production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2011, 71, 1.  | 3.9 | 135       |
| 62 | Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ . Physical Review C, 2014, 89, .   | 4.9 | 133       |
| 63 | Studies of jet quenching using isolated-photon + jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 773-794. | 4.1 | 130       |
| 64 | A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2012, 72, 1.  | 3.9 | 129       |
| 65 | Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 64-85.  | 4.1 | 129       |
| 66 | Search for Dijet Resonances in $\sqrt{s} = 7 \text{ TeV}$ Collisions at CMS. Physical Review Letters, 2010, 105, 211801.  | 7.8 | 126       |
| 67 | Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy. Physical Review Letters, 2012, 108, 261803.   | 7.8 | 126       |
| 68 | Measurement of the Inclusive Jet Cross Section in $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ Collisions at CMS. Physical Review Letters, 2011, 107, 132001.   | 7.8 | 125       |
| 69 | Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2013, 73, 1.   | 3.9 | 125       |
| 70 | Evidence for the 125 GeV Higgs boson decaying to a pair of $\tau$ , leptons. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 123       |
| 71 | Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 13.6 \text{ TeV}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.  | 3.9 | 123       |
| 72 | Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.  | 4.7 | 122       |

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|----|---|-----|-----------|
| 73 | Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s} = 2.76$ TeV. Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 494-519. | 4.1 | 122       |
| 74 | Elementary Particle and High-Energy Physics, 2015, 750, 494-519.  | 4.1 | 122       |
| 75 | CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.  | 3.9 | 120       |
| 76 | Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 68-90.   | 4.1 | 120       |
| 77 | Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 123-142.   | 4.1 | 118       |
| 78 | Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 171803.   | 7.8 | 118       |
| 79 | Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 118       |
| 80 | Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 117       |
| 81 | Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. The CMS Collaboration. Physics Review Letters, 2013, 111, 071801.  | 4.7 | 115       |
| 82 | Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2016, 116, 071801.  | 7.8 | 114       |
| 83 | Observation of a peaking structure in the $Z \rightarrow \mu\mu$ invariant mass spectrum from pp collisions at $\sqrt{s} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 729, 149-171.   | 2.9 | 113       |
| 84 | mass spectrum from pp collisions at $\sqrt{s} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 729, 149-171.  | 4.1 | 112       |
| 85 | Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at $\sqrt{s} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 729, 149-171.  | 4.1 | 110       |
| 86 | Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 729, 149-171.   | 4.7 | 108       |
| 87 | Collisions at $\sqrt{s} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 729, 149-171.  | 7.8 | 108       |
| 88 | Azimuthal Anisotropy of Charged Particles at High Transverse Momenta in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 107, 232301.   | 7.8 | 108       |
| 89 | Observation of Charge-Dependent Correlations in pp Collisions and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 118, 122301.  | 7.8 | 108       |
| 90 | Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9$ , 2.36, and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.  | 4.7 | 106       |

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|----|--|-----|-----------|
| 91 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                        | 4.7 | 103       |
| 92 | Missing transverse energy performance of the CMS detector. Journal of Instrumentation, 2011, 6, P09001-P09001.   | 1.2 | 102       |
| 93 | 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       |
| 94 | 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       |
| 95 | Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.  | 4.7 | 99        |
| 96 | Measurement of the prompt $J/\psi$ and $\Upsilon$ production in PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.                 |     |           |

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|-----|--|------|-----------|
| 109 | First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 424-443.                | 4.1  | 90        |
| 110 | Searches for new physics using the invariant mass distribution in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2013, 111, 211804.   | 7.8  | 90        |
| 111 | Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 501-504.           | 4.7  | 90        |
| 112 | Search for dijet resonances in proton-proton collisions at $\sqrt{s} = 8$ TeV and constraints on dark matter and other models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 505-508.         | 4.1  | 90        |
| 113 | Search for dijet resonances in proton-proton collisions at $\sqrt{s} = 8$ TeV and constraints on dark matter and other models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 505-508.         | 4.1  | 89        |
| 114 | Measurement of the inclusive production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 424-443.  | 4.7  | 88        |
| 115 | Measurement of the cross section for the production of a W boson and a Z boson in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 424-443.                 | 4.1  | 88        |
| 116 | Measurement of the cross section for the production of a W boson and a Z boson in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 424-443.                 | 4.1  | 88        |
| 117 | Measurement of the elastic proton-proton cross section at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 5-27.   | 4.1  | 88        |
| 118 | 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        |
| 119 | Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 560-582. | 4.1  | 87        |
| 120 | Angular analysis of the decay $B_0 \rightarrow K^* \mu^+ \mu^-$ from pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 424-448.                              | 4.1  | 87        |
| 121 | Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 1, 1.   | 4.7  | 86        |
| 122 | Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7  | 85        |
| 123 | A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.   | 12.6 | 85        |
| 124 | Evidence of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 113, 132301.  | 7.8  | 85        |
| 125 | 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        |
| 126 | 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        |



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|-----|--|-----|-----------|
| 127 | 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        |
| 128 | Reconstruction and identification of $\tilde{l}, \tilde{l}^*$ lepton decays to hadrons and $\tilde{l} \rightarrow \tilde{l}^* + \gamma$ at CMS. Journal of Instrumentation, 2016, 11, P01019-P01019.                             | 1.2 | 85        |
| 129 | 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        |
| 130 | Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 83        |
| 131 | Study of W boson production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Measurement of the muon charge asymmetry in inclusive Z boson production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469. | 4.7 | 83        |
| 132 | Measurement of the differential cross section and charge asymmetry for inclusive $W \rightarrow \mu \nu$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.   | 3.9 | 83        |
| 133 | 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        |
| 134 | Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 81        |
| 135 | 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        |
| 136 | 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        |
| 137 | Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets. Physical Review Letters, 2015, 114, 051801.   | 7.8 | 80        |
| 138 | Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 28-49.          | 4.1 | 79        |

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|-----|--|-----|-----------|
| 145 | Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.   | 4.7 | 78        |
| 146 | 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        |
| 147 | Measurement of the production cross section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2015, 75, 2015, 1.  | 4.7 | 77        |
| 148 | Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.   | 4.1 | 77        |
| 149 | Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 367, 2017, 1. | 4.1 | 76        |
| 150 | Inclusive and differential measurements of the charge asymmetry in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2015, 75, 2015, 1.   | 4.1 | 76        |
| 151 | Search for Top-Quark Partners with Charge in the Same-Sign Dilepton Final State. Physical Review Letters, 2014, 112, 171801.   | 7.8 | 76        |
| 152 | Study of exclusive two-photon production of $W+W^*$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.                          | 4.7 | 75        |
| 153 | Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ . European Physical Journal C, 2014, 74, 2014, 1.  | 3.9 | 75        |
| 154 | Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in Collisions at $\sqrt{s} = 7 \text{ TeV}$ . Physical Review Letters, 2011, 106, 231801.  | 7.8 | 74        |
| 155 | Measurement of the $W+W$ cross section in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.   | 3.9 | 74        |
| 156 | Search for Narrow Resonances in Dijet Final States at the Novel CMS Technique of Data Scouting. Physical Review Letters, 2016, 117, 031802.  | 7.8 | 74        |
| 157 | Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \bar{\nu} \nu$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.                                     | 4.7 | 73        |
| 158 | Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review D, 2015, 91, 2015, 1.                      | 4.7 | 73        |
| 159 | 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        |
| 160 | Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review D, 2016, 94, 2016, 1.   | 4.7 | 73        |
| 161 | Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review Letters, 2016, 117, 051802.  | 7.8 | 73        |
| 162 |  |     |           |

| #   | ARTICLE   | IF | CITATIONS |
|-----|---|----|-----------|
| 163 | <p>or vectorlike charge</p> $\sqrt{s} = 2.3 \text{ TeV}$ <p>in proton-proton collisions at</p> $\sqrt{s} = 2.3 \text{ TeV}$ |    |           |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 181 | Measurement of the differential cross section for isolated prompt photon production in $pp$ collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2011, 84, .  | 4.7 | 65        |
| 182 | Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 65        |
| 183 | Search for microscopic black hole signatures at the Large Hadron Collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 434-453.  | 4.1 | 65        |
| 184 | Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in $pp$ Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2012, 108, 252002.   | 7.8 | 65        |
| 185 | Observation of a New Baryon. Physical Review Letters, 2012, 108, 252002.  | 7.8 | 65        |
| 186 | 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        |
| 187 | Measurement of the sum of WW and WZ production with W+dijet events in $pp$ collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2283.   | 3.9 | 64        |
| 188 | Search for Flavor-Changing Neutral Currents in Top-Quark Decays in $pp$ Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2012, 108, 111801.   | 7.8 | 64        |
| 189 | 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        |
| 190 | Search for narrow resonances in dilepton mass spectra in $pp$ collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 158-179.                                   | 4.1 | 64        |
| 191 | Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider. Physical Review Letters, 2012, 108, 111801.   | 7.8 | 63        |
| 192 | Measurements of Spin Correlations and Top-Quark Polarization Using Dilepton Final States in $pp$ Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2012, 109, 152303.  | 7.8 | 63        |
| 193 | Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 98-119.                       | 4.1 | 63        |
| 194 | Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 187-209. | 4.1 | 63        |
| 195 | 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        |
| 196 | Measurement of the Isolated Prompt Photon Production Cross Section in $pp$ Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2012, 109, 152303.  | 7.8 | 62        |
| 197 | Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2012, 109, 152303.   | 7.8 | 62        |
| 198 | Search for the standard model Higgs boson decaying to bottom quarks in $pp$ collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 284-306.                     | 4.1 | 62        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 199 | Measurement of the $W+W\tilde{A}$ cross section in pp collisions at $\sqrt{s} = 7\text{ TeV}$ and limits on anomalous $WW\tilde{A}^3$ and $WWZ$ couplings. European Physical Journal C, 2013, 73, 1.  | 3.9 | 62        |
| 200 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8\text{ TeV}$ . European Physical Journal C, 2016, 76, 13.  | 3.9 | 62        |
| 201 | Measurement of the Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76\text{ TeV}$ . Physical Review Letters, 2017, 119, 152301.   | 7.8 | 62        |
| 202 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s} = 13\text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 62        |
| 203 | Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13\text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 62        |
| 204 | Measurement of the Production Cross Section in $pp \rightarrow B\tilde{A}^0$ Collisions at $\sqrt{s} = 7\text{ TeV}$ . Physical Review Letters, 2013, 110, 022003.  | 7.8 | 61        |
| 205 | Evidence for Associated Production of a Single Top Quark and W Boson in $pp$ Collisions at $\sqrt{s} = 7\text{ TeV}$ . Physical Review Letters, 2013, 110, 022003.  | 7.8 | 61        |
| 206 | Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s} = 7\text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 61        |
| 207 | Search for pair production of third-generation scalar leptosquarks and top squarks in proton-proton collisions at $\sqrt{s} = 7\text{ TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 255-259.                   | 4.7 | 61        |
| 208 | Search for resonant $pp \rightarrow B\tilde{A}^0$ production in proton-proton collisions at $\sqrt{s} = 7\text{ TeV}$ . Physical Review Letters, 2011, 106, 122003.   | 7.8 | 60        |
| 209 | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7\text{ TeV}$ and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 13. | 3.9 | 60        |
| 210 | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7\text{ TeV}$ and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 13. | 3.9 | 60        |
| 211 | Performance and operation of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03010-T03010.   | 1.2 | 59        |
| 212 | Alignment of the CMS silicon tracker during commissioning with cosmic rays. Journal of Instrumentation, 2010, 5, T03009-T03009.   | 1.2 | 59        |
| 213 | Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7\text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 59        |
| 214 | Measurement of the $pp \rightarrow B\tilde{A}^0$ production in $pp$ collisions at $\sqrt{s} = 7\text{ TeV}$ . Physical Review Letters, 2011, 106, 122003.   | 7.8 | 59        |
| 215 | A search for pair production of new light bosons decaying into muons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 146-168.   | 4.1 | 59        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 217 | Measurement of inclusive jet cross sections in $pp$ and PbPb collisions at $\sqrt{s} = 2.76$ TeV. Physical Review C, 2017, 96, .                                       | 2.9 | 59        |
| 218 | Search for anomalous $t\bar{t}$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.                              | 4.7 | 58        |
| 219 | Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.                         | 4.7 | 58        |
| 220 | Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 58        |
| 221 | Interpretation of searches for supersymmetry with simplified models. Physical Review D, 2013, 88, .  | 4.7 | 58        |
| 222 | 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        |
| 223 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $pp$ collisions at 8 TeV. European Physical Journal C, 2018, 78, 701. | 3.9 | 58        |
| 224 | Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. Journal of Instrumentation, 2010, 5, T03014-T03014.                              | 1.2 | 57        |
| 225 |  |     |           |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 235 | Event activity dependence of $\gamma$ (nS) production in $\sqrt{s} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 56        |
| 236 | Search for heavy long-lived charged particles in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 408-433.   | 4.1 | 55        |
| 237 | Measurement of masses in the $\overline{tt}$ system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2494.   | 3.9 | 55        |
| 238 | 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        |
| 239 | Limits on the Higgs boson lifetime and width from its decay to four charged leptons. Physical Review D, 2015, 92, .   | 4.7 | 55        |
| 240 | 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        |
| 241 | Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 13$ TeV and combination with 8 TeV data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 255-260. | 4.1 | 55        |
| 242 | Measurement of Dijet Angular Distributions and Search for Quark Compositeness in $\sqrt{s} = 7$ TeV pp Collisions. Physical Review Letters, 2011, 106, 201804.  | 7.8 | 54        |
| 243 | Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 26-37.                            | 4.1 | 54        |
| 244 | Measurement of the $\tau$ lepton polarization in $\sqrt{s} = 7$ TeV pp collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 408-433.  | 4.1 | 54        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 253 | Measurement of prompt and nonprompt $J/\psi$ production in $pp$ and $pp$ collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.   | 3.9 | 53        |
| 254 | Performance of CMS muon reconstruction in cosmic-ray events. Journal of Instrumentation, 2010, 5, T03022-T03022.  | 1.2 | 52        |
| 255 | Measurement of the $t\bar{t}$ 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        |
| 256 | Measurement of the $Z\bar{Z}$ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 459.   | 4.1 | 52        |
| 257 | 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        |
| 258 | Measurements of the $Z\bar{Z}$ production cross section and the $Z\bar{Z}$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 165.                             | 3.9 | 52        |
| 259 | Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC. Physical Review D, 2011, 84, .  | 4.7 | 51        |
| 260 | Search for exclusive or semi-exclusive $\tilde{\chi}_1^0\tilde{\chi}_1^0$ production and observation of exclusive and semi-exclusive $e^+e^-$ production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 51        |
| 261 | Searches for heavy Higgs bosons in two-Higgs-doublet models and $h$ decay using multilepton and diphoton final states in $pp$ collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2014, 90, .  | 4.7 | 51        |
| 262 | 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        |
| 263 | First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572.  | 3.9 | 50        |
| 264 | Search for $B_s \rightarrow \mu^+\mu^-$ and $B \rightarrow \mu^+\mu^-$ Decays in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 101802.   | 4.7 | 50        |
| 265 | Study of the underlying event at forward rapidity in $pp$ collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 50        |
| 266 | Measurement of differential cross sections for top quark pair production using the $l\bar{l}j\bar{j}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 95, .  | 4.7 | 50        |
| 267 | Search for a heavy pseudoscalar boson decaying to a $Z$ and a Higgs boson at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 564.   | 3.9 | 50        |
| 268 | First Measurement of Bose-Einstein Correlations in Proton-Proton Collisions at $\sqrt{s} = 0.9$ and $2.36$ TeV at the LHC. Physical Review Letters, 2010, 105, 032001.  | 7.8 | 49        |
| 269 | Search for new physics with jets and missing transverse momentum in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 49        |
| 270 | Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy. Physical Review Letters, 2012, 109, 071803.   | 7.8 | 49        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 271 | Search for leptonic decays of $W^{\pm}$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 49        |
| 272 | 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        |
| 273 | Search for new resonances decaying via $WZ$ to leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 187-206.         | 4.7 | 48        |
| 274 | Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 187-206. | 4.7 | 48        |
| 275 | 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        |
| 276 | 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        |
| 277 | 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        |
| 278 | Search for Supersymmetry in pp Collisions at $\sqrt{s} = 7$ TeV in Events with Two Photons and Missing Transverse Energy. Physical Review Letters, 2011, 106, 211802.   | 7.8 | 47        |
| 279 | Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.                  | 4.7 | 47        |
| 280 | Measurement of the $Z$ boson production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.1 | 47        |
| 281 | Search for Top Squarks in Parity-Violating Supersymmetry Using Three or More Leptons and b-tagged jets. Physical Review Letters, 2013, 111, 221801.   | 7.8 | 47        |
| 282 | Measurement of Prompt $b$ -tagged jets. Physical Review Letters, 2013, 111, 221801.   | 7.8 | 47        |
| 283 | Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 94, .  | 4.7 | 47        |
| 284 | Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 46        |
| 285 | Measurement of the Polarization of $W$ Bosons with Large Transverse Momenta in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 021802.   | 7.8 | 46        |
| 286 | Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.                              | 4.7 | 46        |
| 287 | Measurement of the $Z$ boson production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 46        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 289 | Measurement of jet multiplicity and differential production cross sections of $Z$ bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707.   | 4.7 | 46        |
| 290 | Search for supersymmetry using razor variables in events with tagged jets in $pp$ collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.   | 4.7 | 46        |
| 291 | Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707.   | 3.9 | 46        |
| 292 | Search for heavy Majorana neutrinos in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 45        |
| 293 | Search for heavy, top-like quark pair production in the dilepton final state in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 103-121.   | 4.1 | 45        |
| 294 | Search for heavy Majorana neutrinos in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.1 | 45        |
| 295 | Search for heavy Majorana neutrinos in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.1 | 45        |
| 296 | Search for heavy Majorana neutrinos in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.1 | 45        |
| 297 | Search for a Higgs boson decaying into a $b$ -quark pair and produced in association with $b$ quarks in proton-proton collisions at 7 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 207-232.   | 4.1 | 45        |
| 298 | Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.   | 7.8 | 45        |
| 299 | Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 143-163.   | 4.1 | 45        |
| 300 | Search for neutral resonances decaying into a $Z$ boson and a pair of $b$ jets or $\tau$ , leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 369-394.  | 4.1 | 45        |
| 301 | Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 682-705. | 4.1 | 45        |
| 302 | Search for microscopic black holes in $pp$ collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 44        |
| 303 | Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in $pp$ Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2014, 112, 161802.  | 7.8 | 44        |
| 304 | Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in $pp$ Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2014, 112, 161802.  | 7.8 | 44        |
| 305 | Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in $pp$ Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2014, 112, 161802.  | 7.8 | 44        |
| 306 | Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in $pp$ Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2014, 112, 161802.  | 7.8 | 44        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 307 | 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        |
| 308 | Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters. Physical Review Letters, 2015, 114, 061801.   | 7.8 | 44        |
| 309 | 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        |
| 310 | Search for lepton flavour violating decays of the Higgs boson to $e\bar{\nu}_\mu$ and $e\nu_\mu$ in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1-10.        | 4.1 | 44        |
| 311 | Study of Z boson production in pPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 36-57.                             | 7.8 | 43        |
| 312 | 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        |
| 313 | Search for pair production of dijet resonances in four-jet final states in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2014, 74, 3060.                                      | 7.8 | 43        |
| 314 | 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        |
| 315 | Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 43        |
| 316 | Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$ . Physical Review D, 2015, 92, .   | 4.7 | 43        |
| 317 | 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        |
| 318 | Search for pair production of first and second generation leptoquarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, .  | 4.7 | 43        |
| 319 | Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 102-124. | 4.1 | 43        |
| 320 | Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.  | 3.9 | 42        |
| 321 | Study of W boson production in pPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 565-586.                           | 7.8 | 42        |
| 322 | Evidence for exclusive $\hat{t}\bar{t}W+W\hat{t}$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2016, 2016, 1.     | 4.7 | 42        |
| 323 | Search for Quark Compositeness with the Dijet Centrality Ratio in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2014, 74, 3060.  | 7.8 | 41        |
| 324 | Search for Stopped Gluinos in pp collisions at $\sqrt{s}=8$ TeV. Physical Review Letters, 2011, 106, 011801.   | 7.8 | 41        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 325 | Inclusive search for squarks and gluinos in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 41        |
| 326 | Search for electroweak production of charginos and neutralinos using leptonic final states in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 41        |
| 327 | Search for fractionally charged particles in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.   | 4.1 | 41        |
| 328 | Search for pair-produced vectorlike quarks in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1.   | 4.7 | 41        |
| 329 | Search for pair-produced vectorlike quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128.  | 4.7 | 41        |
| 330 | Measurement of the $t\bar{t}\hat{A}^-$ 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        |
| 331 | Measurement of the $t\bar{t}\hat{A}^-$ production cross section in the all-jets final state in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128.  | 3.9 | 41        |
| 332 | 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        |
| 333 | Search for same-sign top-quark pair production at $\sqrt{s} = 7$ TeV and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 40        |
| 334 | Measurement of four-jet production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 89, .   | 4.7 | 40        |
| 335 | Measurement of the $t\bar{t}\hat{A}^-$ production cross section using events in the $e\bar{\nu}_e$ final state in $pp$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172.                                | 3.9 | 40        |
| 336 | Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 221802.   | 7.8 | 40        |
| 337 | 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        |
| 338 | 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        |
| 339 | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.       | 3.9 | 40        |
| 340 | Measurement of $W\hat{1}^3$ and $Z\hat{1}^3$ production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 535-555.                              | 4.1 | 39        |
| 341 | Search for resonances in the dilepton mass distribution in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 39        |
| 342 | Inclusive b-jet production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 39        |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 361 | <p>ment of the <math>W</math> and <math>Z</math> inclusive cross sections in <math>p\bar{p}</math> collisions at <math>\sqrt{s}=8</math> TeV. Journal of High Energy Physics, 2015, 2015, 1.</p> | 4.7 | 37        |
| 362 | <p>Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at <math>\sqrt{s}=8</math> TeV. Journal of High Energy Physics, 2015, 2015, 1.</p> | 4.7 | 37        |
| 363 |  |     |           |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 379 | 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        |
| 380 | Measurement of exclusive $\Upsilon$ photoproduction from protons in $p\text{-}Pb$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 277.   | 3.9 | 35        |
| 381 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 488.   | 3.9 | 35        |
| 382 | Time reconstruction and performance of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03011-T03011.   | 1.2 | 34        |
| 383 | Search for Three-jet Resonances in $pp$ Collisions at $\sqrt{s} = 7$ and 8 TeV. Physical Review Letters, 2011, 107, 101801.   | 7.8 | 34        |
| 384 | Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 34        |
| 385 | Search for microscopic black holes in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 34        |
| 386 | Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or 3 b-quark jets in 7 TeV pp collisions using the variable $\cancel{E}_T$ . Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 34        |
| 387 | Search for a $Z \rightarrow b\bar{b}$ resonance decaying to a bottom quark and a top quark in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 101801.  | 4.1 | 34        |
| 388 | Search for $Z \rightarrow \tau\tau$ resonances decaying to dilepton+jet final states in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, .   | 4.7 | 34        |
| 389 | Search for anomalous quartic gauge couplings in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 101801.  | 4.1 | 34        |
| 390 | 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        |
| 391 | Measurements of the $Z \rightarrow \tau\tau$ production cross section in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2016, 116, 052002.  | 4.1 | 34        |
| 392 | Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2016, 116, 052002.   | 7.8 | 34        |
| 393 | Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 379.   | 3.9 | 34        |
| 394 | Measurements of the $t\bar{t}$ 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        |
| 395 | Measurement of the cross section for electroweak production of $Z\tau$ in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 380-402. | 4.1 | 34        |
| 396 | Measurement of the top quark mass with lepton+jets final states using $p\text{-}Pb$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 891.  | 3.9 | 34        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 397 | Search for single production of vector-like quarks decaying to a top quark and a $W$ boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 90.  | 3.9 | 34        |
| 398 | Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.  | 3.9 | 33        |
| 399 | Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 33        |
| 400 | Search for narrow high-mass resonances in proton-proton collisions at $\sqrt{s} = 8$ TeV decaying to a Z and a Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 255-277.  | 4.1 | 33        |
| 401 | 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        |
| 402 | Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 152-180.   | 4.1 | 33        |
| 403 | Measurement of exclusive $\rho^0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 702.   | 3.9 | 33        |
| 404 | 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        |
| 405 | Search for top squark pair production using dilepton final states in $pp$ collision data collected at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 3.   | 3.9 | 33        |
| 406 | 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        |
| 407 | Measurement of $\overline{B}B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 32        |
| 408 | Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. Journal of High Energy Physics, 2011, 2011, 1.  | 4.7 | 32        |
| 409 | Search for pair production of first- and second-generation scalar leptoquarks in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 32        |
| 410 | Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 32        |
| 411 | 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        |
| 412 | Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 564-586.  | 4.1 | 32        |
| 413 | Alignment of the CMS tracker with LHC and cosmic ray data. Journal of Instrumentation, 2014, 9, P06009-P06009.   | 1.2 | 32        |
| 414 | Measurements of the $Z$ production cross sections in the $2\mu$ channel in proton-proton collisions at $\sqrt{s} = 7$ and $8$ TeV. European Physical Journal C, 2015, 75, 511.   | 3.9 | 32        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 415 | Correlations in Pb-Pb and $pp$ collisions at $\sqrt{s} = 2.76$ TeV. <i>Physical Review Letters</i> , 2012, 104, 122301.   | 7.8 | 32        |
| 416 | Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV $pp$ collisions. <i>European Physical Journal C</i> , 2017, 77, 327.  | 3.9 | 32        |
| 417 | Shape, transverse size, and charged-hadron multiplicity of jets in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.                                      | 4.7 | 31        |
| 418 | Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.           | 4.7 | 31        |
| 419 | Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 66.                 | 3.9 | 31        |
| 420 | Measurement of transverse momentum relative to dijet systems in PbPb and $pp$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.                        | 4.7 | 31        |
| 421 | Search for top squark pair production in $pp$ collisions at $\sqrt{s} = 13$ TeV using single lepton events. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.                                    | 4.7 | 31        |
| 422 | A multi-dimensional search for new heavy resonances decaying to boosted $W$ or $Z$ boson pairs in the dijet final state at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2020, 80, 237.   | 3.9 | 31        |
| 423 | Measurement of Bose-Einstein correlations in $pp$ collisions at $\sqrt{s} = 0.9$ and 7 TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.  | 4.7 | 30        |
| 424 | Search for a heavy bottom-like quark in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B</i> , 2012, 718, 1037.   | 4.1 | 30        |
| 425 | Search for new physics in events with same-sign dileptons and b-tagged jets in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.                          | 4.7 | 30        |
| 426 | Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow 4\ell$ in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.                 | 4.7 | 30        |
| 427 | Measurement of the $W$ -boson helicity in top-quark decays from $W$ production in lepton+jets events in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 4.7 | 30        |
| 428 | Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.  | 4.7 | 30        |
| 429 | Measurement of the $W$ boson polarization using dilepton final states in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2012, 109, 161801.                                   | 4.7 | 30        |
| 430 | Search for massive $WH$ resonances decaying into the $u\bar{b}$ final state at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 237.  | 3.9 | 30        |
| 431 | Inclusive and differential measurements of the $W$ boson charge asymmetry in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2012, 109, 161801.                               | 4.1 | 30        |
| 432 | Measurement of the $W$ boson charge asymmetry in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2012, 109, 161801.   | 4.1 | 30        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 433 | Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8, \text{ext} \{ \text{TeV} \}$ $s = 8 \text{ TeV}$ . European Physical Journal C, 2017, 77, 751.   | 3.9 | 30        |
| 434 | Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 29        |
| 435 | Search for high-mass resonances decaying into $\tau$ leptons in pp collisions at $\sqrt{s} = 13, \text{ext} \{ \text{TeV} \}$ $s = 13 \text{ TeV}$ in final states with missing transverse momentum and at least one jet using the $\alpha_{\text{T}}$ variable. European Physical Journal C, 2017, 77, 294.  | 7.8 | 29        |
| 436 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.   | 4.1 | 29        |
| 437 | Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02, \text{mathrm} \{ \text{TeV} \}$ $s \text{ NN}$ . European Physical Journal C, 2016, 76, 372.   | 3.9 | 29        |
| 438 | Correlations between jets and charged particles in PbPb and pp collisions at $s \text{ NN} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.   | 4.7 | 29        |
| 439 | A search for new phenomena in pp collisions at $\sqrt{s} = 13, \text{ext} \{ \text{TeV} \}$ $s = 13 \text{ TeV}$ in final states with missing transverse momentum and at least one jet using the $\alpha_{\text{T}}$ variable. European Physical Journal C, 2017, 77, 294.  | 3.9 | 29        |
| 440 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 29        |
| 441 | Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13, \text{ext} \{ \text{TeV} \}$ $s = 13 \text{ Te}$ . European Physical Journal C, 2019, 79, 280.   | 3.9 | 29        |
| 442 | Search for physics beyond the standard model using multilepton signatures in proton-proton collisions at $\sqrt{s} = 13, \text{ext} \{ \text{TeV} \}$ $s = 13 \text{ TeV}$ in events with photons and missing energy in proton-proton collisions at $\sqrt{s} = 13, \text{ext} \{ \text{TeV} \}$ $s = 13 \text{ TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 752-772. | 4.1 | 28        |
| 443 | Search for long-lived particles in events with photons and missing energy in proton-proton collisions at $\sqrt{s} = 13, \text{ext} \{ \text{TeV} \}$ $s = 13 \text{ TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 752-772.  | 4.1 | 28        |
| 444 | Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 13, \text{ext} \{ \text{TeV} \}$ $s = 13 \text{ TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 752-772.  | 4.1 | 28        |
| 445 | Search for $\text{t} \overline{\text{t}} \text{H}$ production in the $\text{H} \rightarrow \text{b} \overline{\text{b}}$ decay channel with leptonic $\text{t} \overline{\text{t}}$ decays in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.  | 4.7 | 28        |
| 446 | Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.  | 4.7 | 28        |
| 447 | Study of Z production in PbPb and pp collisions at $s \text{ NN} = 2.76 \text{ TeV}$ in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.  | 4.1 | 27        |
| 448 | Study of Z production in PbPb and pp collisions at $s \text{ NN} = 2.76 \text{ TeV}$ in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 27        |
| 449 | Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.   | 4.7 | 27        |
| 450 | Search for single production of scalar leptoquarks in proton-proton collisions at $\sqrt{s} = 13, \text{ext} \{ \text{TeV} \}$ $s = 13 \text{ TeV}$ . Physical Review D, 2016, 93, .  | 4.7 | 27        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 451 | Transverse momentum spectra of inclusive b jets in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Letters Section B: Nuclear, Elementary Particle and High Energy Physics</i> , 2016, 754, 50-59.                              | 4.7 | 27        |
| 452 | 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. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 4.7 | 27        |
| 453 | Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 291.          | 3.9 | 27        |
| 454 | Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020, 15, P02027-P02027.                                     | 1.2 | 27        |
| 455 | Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.   | 4.7 | 27        |
| 456 | Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.   | 4.7 | 26        |
| 457 | Search for a heavy gauge boson. <i>Physical Review D</i> , 2012, 86, .   | 4.1 | 26        |
| 458 | Combined search for the quarks of a sequential fourth generation. <i>Physical Review D</i> , 2012, 86, .   | 4.7 | 26        |
| 459 | Search for resonant $\overline{t}t$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.  | 4.7 | 26        |
| 460 | Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.                 | 3.9 | 26        |
| 461 | Search for three-jet resonances in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2012, 86, .   | 4.1 | 26        |
| 462 | Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ channel in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.                                     | 4.7 | 26        |
| 463 | Measurement of the production cross section for pairs of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.   | 4.7 | 26        |
| 464 | Search for $W \rightarrow tb$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.   | 4.7 | 26        |
| 465 | Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.   | 4.7 | 26        |
| 466 | Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76$ TeV. <i>European Physical Journal C</i> , 2016, 76, 1.  | 3.9 | 26        |
| 467 | Performance study of the CMS barrel resistive plate chambers with cosmic rays. <i>Journal of Instrumentation</i> , 2010, 5, T03017-T03017.   | 1.2 | 25        |
| 468 | Measurement of the muon stopping power in lead tungstate. <i>Journal of Instrumentation</i> , 2010, 5, P03007-P03007.  | 1.2 | 25        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 469 | Commissioning and performance of the CMS silicon strip tracker with cosmic ray muons. Journal of Instrumentation, 2010, 5, T03008-T03008.   | 1.2 | 25        |
| 470 | Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 25        |
| 471 | Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton + jets final states produced in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 512-534. | 4.1 | 25        |
| 472 | Search for a low-mass pseudoscalar Higgs boson produced in association with a $b\bar{b}$ pair in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325.   | 4.1 | 25        |
| 473 | 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.  | 3.9 | 25        |
| 474 | Performance of the CMS drift tube chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03015-T03015.  | 4.1 | 25        |
| 475 | Performance of the CMS Level-1 trigger during commissioning with cosmic ray muons and LHC beams. Journal of Instrumentation, 2010, 5, T03002-T03002.  | 4.1 | 25        |
| 476 | Observation of a diffractive contribution to dijet production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, .   | 4.7 | 24        |
| 477 | Measurement of the $t\bar{t}$ production cross section in the $l, +jets$ channel in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.  | 4.7 | 24        |
| 478 | 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        |
| 479 | Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 24        |
| 480 | 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        |
| 481 | Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 746, 79-99.         | 4.1 | 24        |
| 482 | Measurement of the integrated and differential $t\bar{t}$ production cross sections for high-pT top quarks in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 94, .   | 4.7 | 24        |
| 483 | Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 93, .   | 4.7 | 24        |
| 484 | Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 93, .   | 4.7 | 24        |
| 485 | Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 93, .   | 4.7 | 24        |
| 486 | Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 93, .   | 4.7 | 24        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 487 | Search for dark matter and unparticles produced in association with a $Z$ boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                                   | 4.7 | 24        |
| 488 | Measurement of the differential inclusive $B^+$ hadron cross sections in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.   | 4.1 | 24        |
| 489 | Search for dark matter and unparticles produced in association with a $Z$ boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                                   | 7.8 | 24        |
| 490 | Measurement of the differential inclusive $B^+$ hadron cross sections in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.   | 4.1 | 24        |
| 491 | Search for dark matter and unparticles produced in association with a $Z$ boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                                   | 7.8 | 24        |
| 492 | Measurements of $p\bar{p}$ and $p\bar{p}$ yields from $Z$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.          | 3.9 | 24        |
| 493 | Alignment of the CMS muon system with cosmic-ray and beam-halo muons. Journal of Instrumentation, 2010, 5, T03020-T03020.  | 1.2 | 23        |
| 494 | Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.  | 4.7 | 23        |
| 495 | Search for exotic particles in $b\bar{b}$ events produced in association with a $Z$ boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                         | 4.1 | 23        |
| 496 | 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        |
| 497 | Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.  | 4.7 | 23        |
| 498 | Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.  | 3.9 | 23        |
| 499 | Observation of Top Quark Production in Proton-Nucleus Collisions. Physical Review Letters, 2017, 119, 242001.  | 7.8 | 23        |
| 500 | 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        |
| 501 | 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        |
| 502 | 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        |
| 503 | 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        |
| 504 | 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 $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 752. | 3.9 | 23        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 505 | 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        |
| 506 | Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 22        |
| 507 | Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 42-61.   | 4.1 | 22        |
| 508 | Search for physics beyond the standard model in events with $\tilde{l}$ , leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2493.  | 3.9 | 22        |
| 509 | Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 215-219.  | 4.1 | 22        |
| 510 | Measurement of the ZZ production cross section and $Z \rightarrow \tilde{a}^+ \tilde{a}^-$ , $Z \rightarrow \tilde{a}^+ \tilde{a}^0$ , $Z \rightarrow \tilde{a}^0 \tilde{a}^0$ branching fraction in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 280-303. | 4.1 | 22        |
| 511 | Search for $t \bar{t} \tilde{A}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 22        |
| 512 | 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        |
| 513 | 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        |
| 514 | Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $\tilde{l}$ , leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 22        |
| 515 | Search for direct pair production of supersymmetric partners to the $\tilde{\tau}_1$ lepton in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 189.  | 3.9 | 22        |
| 516 | 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        |
| 517 | Search for production of third-generation Scalar Leptoquarks in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2011, 106, 201802.   | 7.8 | 21        |
| 518 | Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 745, 5-28.   | 4.1 | 21        |
| 519 | 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        |
| 520 | 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        |
| 521 | 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        |
| 522 | Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data. Journal of Instrumentation, 2010, 5, T03013-T03013.   | 1.2 | 20        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 523 | Performance of the CMS cathode strip chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03018-T03018.   | 1.2 | 20        |
| 524 | Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 20        |
| 525 | Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 20        |
| 526 | Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. European Physical Journal C, 2013, 73, 2404.   | 3.9 | 20        |
| 527 | Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1252-1272.                          | 4.1 | 20        |
| 528 | Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.   | 4.1 | 20        |
| 529 | Measurements of the $t\bar{t}$ 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        |
| 530 | 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        |
| 531 | Meson Production in $p\bar{p}$ Collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2016, 2016, 1.   | 7.8 | 20        |
| 532 | 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        |
| 533 | Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at $\sqrt{s}=7.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 306-329. | 4.7 | 20        |
| 534 | Search for $t\bar{t}H$ 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        |
| 535 | 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        |
| 536 | Search for rare decays of Z and Higgs bosons to $J/\psi$ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.  | 3.9 | 20        |
| 537 | 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        |
| 538 | Aligning the CMS muon chambers with the muon alignment system during an extended cosmic ray run. Journal of Instrumentation, 2010, 5, T03019-T03019.  | 1.2 | 19        |
| 539 | Performance of the CMS drift-tube chamber local trigger with cosmic rays. Journal of Instrumentation, 2010, 5, T03003-T03003.   | 1.2 | 19        |
| 540 | CMS data processing workflows during an extended cosmic ray run. Journal of Instrumentation, 2010, 5, T03006-T03006.  | 1.2 | 19        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 541 | 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        |
| 542 | Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tilde{l}, \tilde{\nu}_\tau$ leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.               | 4.7 | 19        |
| 543 | Measurement of the differential cross sections for the associated production of a $W$ boson and jets in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.  | 4.7 | 19        |
| 544 | Principal-component analysis of two-particle azimuthal correlations in PbPb and pp collisions at CMS. Physical Review C, 2017, 96, .  | 4.7 | 18        |
| 545 | Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 723.  | 3.9 | 19        |
| 546 | Fine synchronization of the CMS muon drift-tube local trigger using cosmic rays. Journal of Instrumentation, 2010, 5, T03004-T03004.  | 1.2 | 18        |
| 547 | Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2012, 86, .   | 4.7 | 18        |
| 548 | Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 18        |
| 549 | Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2013, 110, 042301.   | 4.1 | 18        |
| 550 | Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2013, 110, 042301.   | 4.1 | 18        |
| 551 | Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 503-525. | 4.1 | 18        |
| 552 | 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        |
| 553 | 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        |
| 554 | Search for $W \rightarrow \tau \nu$ decaying to tau lepton and neutrino in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 196-216.                      | 4.1 | 18        |
| 555 | Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 196-216.                  | 4.1 | 18        |
| 556 | Search for Higgs boson pair production in the $b\bar{b}\gamma\gamma$ final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 196-216.             | 4.7 | 18        |
| 557 | Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 20.   | 3.9 | 18        |
| 558 | 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        |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 559 | MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ \$. European Physical Journal C, 2021, 81, 629.  | 3.9 | 18        |
| 560 | Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ \$. European Physical Journal C, 2021, 81, 970.   | 3.9 | 18        |
| 561 | Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ \$. European Physical Journal C, 2022, 82, 290.   | 3.9 | 18        |
| 562 | Calibration of the CMS drift tube chambers and measurement of the drift velocity with cosmic rays. Journal of Instrumentation, 2010, 5, T03016-T03016.   | 1.2 | 17        |
| 563 | Search for Pair Production of Second-Generation Scalar Leptoquarks in $pp$ Collisions at $\sqrt{s} = 7, \text{ext}\{\text{TeV}\}$ \$. Physical Review Letters, 2011, 106, 201803.  | 7.8 | 17        |
| 564 | Search for stopped long-lived particles produced in $pp$ collisions at $\sqrt{s} = 7, \text{ext}\{\text{TeV}\}$ \$. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 17        |
| 565 | Search for large extra dimensions in dimuon and dielectron events in $pp$ collisions at $\sqrt{s} = 7, \text{ext}\{\text{TeV}\}$ \$. Journal of High Energy Physics, 2013, 2013, 1.  | 4.1 | 17        |
| 566 | Measurement of the $\Lambda_{\text{b}}^0$ lifetime in $pp$ collisions at $\sqrt{s} = 7, \text{ext}\{\text{TeV}\}$ \$. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 17        |
| 567 | Search for standard model production of four top quarks in the lepton + jets channel in $pp$ collisions at $\sqrt{s} = 8, \text{ext}\{\text{TeV}\}$ \$. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 17        |
| 568 | Probing color coherence effects in $pp$ collisions at $\sqrt{s} = 7, \text{ext}\{\text{TeV}\}$ \$. European Physical Journal C, 2014, 74, 2901.  | 3.9 | 17        |
| 569 | Measurement of the ratio of the production cross sections times branching fractions of $B_c \rightarrow \mu^+ \mu^- \nu_\mu \nu_\mu$ and $B \rightarrow \mu^+ \mu^- \nu_\mu \nu_\mu$ in $pp$ collisions at $\sqrt{s} = 7, \text{ext}\{\text{TeV}\}$ \$. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 17        |
| 570 | 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        |
| 571 | Measurement of the inelastic cross section in proton-proton collisions at $\sqrt{s} = 7, \text{ext}\{\text{TeV}\}$ \$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 641-662.   | 4.1 | 17        |
| 572 | Search for new physics with the $M_{T2}$ variable in all-jets final states produced in $pp$ collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ \$. Journal of High Energy Physics, 2016, 2016, 1.   | 4.7 | 17        |
| 573 | Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and $b$ quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 137-162.  | 4.1 | 17        |
| 574 | Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ \$. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 17        |
| 575 | Measurement of electroweak-induced production of $W^{\pm 3}$ with two jets in $pp$ collisions at $\sqrt{s} = 8, \text{ext}\{\text{TeV}\}$ and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 17        |
| 576 | Measurements of jet charge with dijet events in $pp$ collisions at $\sqrt{s} = 8, \text{ext}\{\text{TeV}\}$ \$. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 17        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 577 | 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        |
| 578 | 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        |
| 579 | 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        |
| 580 | 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        |
| 581 | Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.                            | 4.7 | 16        |
| 582 | Measurement of the $\overline{t}t$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 16        |
| 583 | Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 16        |
| 584 | 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        |
| 585 | Measurement of the production cross section ratio $\sigma(\overline{t}t)/\sigma(\overline{b}b)$ in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 383-402.       | 4.1 | 16        |
| 586 | 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        |
| 587 | Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 536.  | 3.9 | 16        |
| 588 | Search for excited leptons in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.  | 4.7 | 16        |
| 589 | Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.  | 4.7 | 16        |
| 590 | Measurement of the production cross section of a $W$ boson in association with two b jets in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 92.  | 3.9 | 16        |
| 591 | Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2018, 78, 287.   | 3.9 | 16        |
| 592 | Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 886.   | 3.9 | 16        |
| 593 | Study of the Dijet Mass Spectrum in pp collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2012, 109, 251801.  | 4.1 | 15        |
| 594 | Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 15        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 595 | Search for charge-asymmetric production of $\chi_{\pm 1}^0$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.1 | 15        |
| 596 | Measurement of the mass difference between top and antitop quarks. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 15        |
| 597 | Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 15        |
| 598 | Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 280-301.   | 4.1 | 15        |
| 599 | Search for supersymmetry with razor variables in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 90, .   | 4.7 | 15        |
| 600 | Upgrade of the CMS muon system with triple-GEM detectors. Journal of Instrumentation, 2014, 9, C10036-C10036.  | 1.2 | 15        |
| 601 | Measurement of the cross section ratio $\sigma(\text{pp} \rightarrow \text{Z} \nu \nu) / \sigma(\text{pp} \rightarrow \text{Z} \nu \nu)$ in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 341-362. | 4.1 | 15        |
| 602 | Search for a Higgs boson decaying into $\tau^+ \tau^-$ with low dilepton mass in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 341-362.  | 4.1 | 15        |
| 603 | Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.   | 4.7 | 15        |
| 604 | Search for Supersymmetry in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2017, 119, 151802.   | 7.8 | 15        |
| 605 | 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        |
| 606 | 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        |
| 607 | Measurement of the $t \bar{t} \gamma$ 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        |
| 608 | 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        |
| 609 | Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.1 | 14        |
| 610 | Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 14        |
| 611 | Measurement of the production cross section for $Z \gamma \rightarrow u \bar{u} \gamma$ in pp collisions at $\sqrt{s} = 7$ TeV and limits on $ZZ^3$ and $Z^3$ triple gauge boson couplings. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 14        |
| 612 | 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        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 613 | Search for supersymmetry in pp collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ in the single-lepton final state using the sum of masses of large-radius jets. Journal of High Energy Physics, 2016, 2016, 1.<br>Measurement of spin correlations in $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 14        |
| 614 | Search for supersymmetry in pp collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ in the muon+jets final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ using the matrix element method in the muon+jets final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.   | 4.1 | 14        |
| 615 | Search for supersymmetry in pp collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ in the muon+jets final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ using the matrix element method in the muon+jets final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.   | 4.1 | 14        |
| 616 | Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 80-105.  | 4.1 | 14        |
| 617 | Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\tau\tau$ at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 14        |
| 618 | Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 14        |
| 619 | 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        |
| 620 | Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 14        |
| 621 | Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 14        |
| 622 | Studies of $B_s \rightarrow B_s \gamma$ and $B_s \rightarrow B_s \gamma \gamma$ decays. Journal of High Energy Physics, 2018, 2018, 1.   |     |           |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 631 | Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.<br>Measurement of the top quark mass using charged particles in | 4.7 | 13        |
| 632 | collisions at $\sqrt{s} = 8 \text{ TeV}$ . Physical Review D, 2016, 93, .  | 4.7 | 13        |
| 633 | 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        |
| 634 | Search for exotic decays of a Higgs boson into undetectable particles and one or more photons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 363-388.   | 4.1 | 13        |
| 635 | 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 $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 13        |
| 636 | Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 13        |
| 637 | Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.                                | 4.7 | 13        |
| 638 | Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2022, 2022, 1.  | 4.7 | 13        |
| 639 | Rapidity distributions in exclusive Z boson production in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review D, 2017, 95, .   | 4.1 | 12        |
| 640 | Search for the production of a Higgs boson decaying to a photon and a Z boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review D, 2017, 95, .  | 4.7 | 12        |
| 641 | Search for the production of a Higgs boson decaying to a photon and a Z boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review D, 2017, 95, .  | 4.7 | 12        |
| 642 | Search for baryon number violation in top-quark decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 173-196.  | 4.1 | 12        |
| 643 | Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 12        |
| 644 | Phenomenological MSSM interpretation of CMS searches in pp collisions at $s = 7 \sqrt{s} = 7 \text{ TeV}$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.  | 4.7 | 12        |
| 645 | Search for neutral MSSM Higgs bosons decaying to $\tau^+\tau^-$ in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 221-246.  | 4.1 | 12        |
| 646 | Search for $\tilde{g}\tilde{g}$ production in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review D, 2017, 95, .   | 4.7 | 12        |
| 647 | Search for high-mass Z boson resonances in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review D, 2017, 95, .  | 4.7 | 12        |
| 648 | Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Physical Review D, 2017, 95, .   | 4.7 | 12        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 649 | 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        |
| 650 | Search for dark matter produced in association with a Higgs boson decaying to $\tilde{\chi}^0_1$ or $\tilde{\chi}^\pm_1, \tilde{\chi}^\pm_2$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                           | 4.7 | 12        |
| 651 | Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.   | 3.9 | 12        |
| 652 | 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        |
| 653 | Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 893.                            | 3.9 | 12        |
| 654 | Development and validation of HERWIG++ tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.  | 3.9 | 12        |
| 655 | Design of a constant fraction discriminator for the VFAT3 front-end ASIC of the CMS GEM detector. Journal of Instrumentation, 2016, 11, C01023-C01023.  | 1.2 | 12        |
| 656 | 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        |
| 657 | Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 11        |
| 658 | Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.   | 3.9 | 11        |
| 659 | Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow \tilde{\chi}^0_1, \tilde{\chi}^\pm_1, \tilde{\chi}^\pm_2$ decay channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 11        |
| 660 | Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC. Physical Review D, 2013, 87, .  | 4.7 | 11        |
| 661 | Measurement of the $Z\tilde{\chi}^0_1$ 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        |
| 662 | Search for supersymmetry in final states with boosted $\tilde{\chi}^0_1$ and $\tilde{\chi}^\pm_1$ leptons in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, .  | 4.7 | 11        |
| 663 | Search for electroweak production of charginos in final states with two $\tilde{\chi}^0_1$ leptons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 11        |
| 664 | Search for standard model production of four top quarks in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 336-358.                             | 4.1 | 11        |
| 665 | Measurement of the semileptonic $t\bar{t} \rightarrow \tilde{\chi}^0_1 \tilde{\chi}^\pm_1$ production cross section in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                                    | 4.7 | 11        |
| 666 | 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        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 667 | 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        |
| 668 | Search for supersymmetry in events with a photon, jets, $\mathcal{E}_T$ -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 444.                        | 3.9 | 11        |
| 669 | 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        |
| 670 | 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        |
| 671 | Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.  | 4.7 | 10        |
| 672 | Search for excited leptons in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 720, 309-329.   |     |           |
| 673 | CMS Resistive Plate Chamber overview, from the present system to the upgrade phase I. Journal of Instrumentation, 2013, 8, P04005-P04005.   | 1.2 | 10        |
| 674 | Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $s=2.76$ TeV. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 10        |
| 675 | Search for supersymmetry in the all-hadronic final state using top quark tagging in $pp$ collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2017, 96.  | 4.7 | 10        |
| 676 | Measurements of the $pp \rightarrow W^+W^+Z$ and $pp \rightarrow Z^0Z^0Z$ cross sections and limits on anomalous quartic gauge couplings at $s=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                               | 4.7 | 10        |
| 677 | Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $s=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 10        |
| 678 | 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        |
| 679 | Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2018, 78, 242.  | 3.9 | 10        |
| 680 | Measurement of the $Z/\gamma \rightarrow \mu\mu$ cross section in pp collisions at $\sqrt{s}=13$ TeV and validation of $Z/\gamma \rightarrow \mu\mu$ . European Physical Journal C, 2018, 78, 708.                                  | 3.9 | 10        |
| 681 | Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u} \rightarrow q\bar{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 10        |
| 682 | 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        |
| 683 | Quality control of mass-produced GEM detectors for the CMS GE1/1 muon upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1034, 166716. | 1.6 | 10        |
| 684 | Publisher's Note: Search for Dijet Resonances in 7 TeV pp Collisions at CMS [Phys. Rev. Lett. 105, 211801 (2010)]. Physical Review Letters, 2011, 106, .  | 7.8 | 9         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 685 | Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, .   | 4.1 | 9         |
| 686 | Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, .                        | 4.7 | 9         |
| 687 | Search for parity-violating supersymmetry in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, .  | 4.7 | 9         |
| 688 | High rate, fast timing Glass RPC for the high $\sqrt{s}$ CMS muon detectors. Journal of Instrumentation, 2016, 11, C09006-C09006.   | 1.2 | 9         |
| 689 | Inclusive search for supersymmetry using razor variables in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 95, .  | 4.7 | 9         |
| 690 | Measurement of the mass difference between top quark and antiquark in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 50-71.   | 4.1 | 9         |
| 691 | 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         |
| 692 | 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         |
| 693 | Search for a heavy vector resonance decaying to a $Z$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.   | 3.9 | 9         |
| 694 | Search for excited leptons in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 50-71.   | 4.1 | 8         |
| 695 | Uniformity and stability of the CMS RPC detector at the LHC. Journal of Instrumentation, 2013, 8, P03017-P03017.  | 1.2 | 8         |
| 696 | The upgrade of the CMS RPC system during the first LHC long shutdown. Journal of Instrumentation, 2013, 8, T02002-T02002.   | 1.2 | 8         |
| 697 | Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 95, .   | 4.7 | 8         |
| 698 | Searches for $W\tilde{\chi}^0$ 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         |
| 699 | Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2q$ final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 8         |
| 700 | Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $pp$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 773.                                  | 3.9 | 8         |
| 701 | Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in $pp$ collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 8         |
| 702 | Search for the standard model Higgs boson produced in association with W and Z bosons in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.                                      | 4.7 | 7         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 703 | Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 88, .  | 4.7 | 7         |
| 704 | A study of gas contaminants and interaction with materials in RPC closed loop systems. Journal of Instrumentation, 2013, 8, T03008-T03008.  | 1.2 | 7         |
| 705 | Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 92, .  | 4.7 | 7         |
| 706 | Search for supersymmetry with photons in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 92, .  | 4.7 | 7         |
| 707 | Quality control and beam test of GEM detectors for future upgrades of the CMS muon high rate region at the LHC. Journal of Instrumentation, 2015, 10, C03039-C03039.  | 1.2 | 7         |
| 708 | 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         |
| 709 | R&D on a new type of micropattern gaseous detector: The Fast Timing Micropattern detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 313-317.   | 1.6 | 7         |
| 710 | Search for leptophobic $Z\tilde{\chi}^0_2$ bosons decaying into four-lepton final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 563-584. | 4.7 | 7         |
| 711 | Search for high-mass $Z\tilde{\chi}^0_3$ resonances in $e+e\tilde{\chi}^0_3$ and $\tilde{\chi}^0_3 + \tilde{\chi}^0_3$ final states in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.      | 4.7 | 7         |
| 712 | Study of central exclusive "Equation missing" $\rightarrow$ production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718.   | 3.9 | 7         |
| 713 | Measurement of the cross section for production of $b\bar{b}$ decaying to muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 6         |
| 714 | Search for anomalous production of highly boosted Z-bosons decaying to $\mu\mu$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 6-31.  | 4.1 | 6         |
| 715 | Measurement of the cross section for production of $b\bar{b}$ decaying to muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 6         |
| 716 | Comparison of the $Z/\tilde{\chi}^0_{1,2} \rightarrow$ jets to $\tilde{\chi}^0_3 +$ jets cross sections in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 6         |
| 717 | Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s} = 7$ and 8 TeV. European Physical Journal C, 2015, 75, 302.  | 3.9 | 6         |
| 718 | Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 6-31.            | 4.1 | 6         |
| 719 | $\tilde{\chi}^0_3$ polarizations versus particle multiplicity in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 761, 31-52.   | 4.1 | 6         |
| 720 | Search for R-parity violating decays of a top squark in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 178-201.                                     | 4.1 | 6         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 739 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 5         |
| 740 | Search for the pair production of light top squarks in the $e^{\pm}l^{\pm}l^{\pm}$ final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.                            | 4.7 | 5         |
| 741 | Measurement of energy flow at large pseudorapidities in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV. , 2011, 2011, 1.   |     | 5         |
| 742 | Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8, \text{ext } \{Te\} \text{ext } \{V\}$ with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.               | 3.9 | 5         |
| 743 | Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2022, 2022, 1.                | 4.7 | 5         |
| 744 | Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .                   | 4.7 | 5         |
| 745 | Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2022, 2022, 1.  | 4.7 | 5         |
| 746 | Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2022, 2022, 1.  | 4.7 | 5         |
| 747 | Resistive plate chambers for 2013-2014 muon upgrade in CMS at LHC. Journal of Instrumentation, 2014, 9, C10033-C10033.  | 1.2 | 4         |
| 748 | 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         |
| 749 | Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $s = 7$ and $8 \text{ TeV}$ . Physical Review D, 2016, 94, .                              | 4.7 | 4         |
| 750 | Search for dark matter particles in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ using the razor variables. Journal of High Energy Physics, 2016, 2016, 1.  | 4.7 | 4         |
| 751 | Search for CP violation in $t \bar{t} \gamma$ production and decay in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 4         |
| 752 | Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{TeV\}$ $s = 13 \text{ TeV}$ . European Physical Journal C, 2019, 79, 305.      | 3.9 | 4         |
| 753 | Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2022, 2022, .  | 4.7 | 4         |
| 754 | CMS endcap RPC gas gap production for upgrade. Journal of Instrumentation, 2012, 7, P11013-P11013.  | 1.2 | 3         |
| 755 | Tests of multigap RPCs for high- $p_T$ triggers in CMS. Journal of Instrumentation, 2012, 7, P10009-P10009.   | 1.2 | 3         |
| 756 | Study of hadronic event-shape variables in multijet final states in pp collisions at $s = 7 \sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 3         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 757 | Performance of a large-area GEM detector prototype for the upgrade of the CMS muon endcap system. , 2014, , .  |     | 3         |
| 758 | R&D towards the CMS RPC Phase-2 upgrade. Journal of Instrumentation, 2016, 11, C09017-C09017.  | 1.2 | 3         |
| 759 | Search for $W\epsilon^2 \hat{t}^*$ tb in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.   | 4.7 | 3         |
| 760 | Observation of the decay $B \rightarrow \hat{t}^* \bar{t} (2S) i \cdot (1020) K^+$ in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 66-86.                        |     | 3         |
| 761 | Overview of large area triple-GEM detectors for the CMS forward muon upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 298-303.                             | 1.6 | 3         |
| 762 | Search for top quark partners with charge $5/3$ in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 3         |
| 763 | 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         |
| 764 | Measurement of the $(\overline{t})$ production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8 \text{ TeV}$ . , 2014, 2014, 1.   |     | 3         |
| 765 | Measurements of the $(\text{p}) \rightarrow \text{Z}$ production cross section and the $(\text{Z}) \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $(\sqrt{s} = 13, \text{ TeV})$ . , 2018, 78, 1.               |     | 3         |
| 766 | Resistive Plate Chambers performance with Cosmic Rays in the CMS experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 180-182.                              | 1.6 | 2         |
| 767 | CMS RPC muon detector performance with 2010-2012 LHC data. Journal of Instrumentation, 2014, 9, C12016-C12016.   | 1.2 | 2         |
| 768 | Charged particle detection performance of Gas Electron Multiplier (GEM) detectors for the upgrade of CMS endcap muon system at the CERN LHC. , 2015, , .   |     | 2         |
| 769 | Fiber Bragg Grating (FBG) sensors as flatness and mechanical stretching sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 493-495.                          | 1.6 | 2         |
| 770 | The Triple GEM Detector Control System for CMS forward muon spectrometer upgrade. Journal of Instrumentation, 2017, 12, P02003-P02003.   | 1.2 | 2         |
| 771 | Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 1.  | 3.9 | 2         |
| 772 | A novel application of Fiber Bragg Grating (FBG) sensors in MPGD. EPJ Web of Conferences, 2018, 174, 03002.  | 0.3 | 2         |
| 773 | Fast Timing Micropattern Gaseous Detector (FTM) simulations for future colliders and medical applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161666. | 1.6 | 2         |
| 774 | Measurements of angular distance and momentum ratio distributions in three-jet and $\text{Z} + \text{two-jet}$ final states in $\text{pp}$ collisions. European Physical Journal C, 2021, 81, 852.   | 3.9 | 2         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 775 | Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV. , 2013, 2013, 1.   |     | 2         |
| 776 | 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         |
| 777 | 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         |
| 778 | 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         |
| 779 | CMS RPC tracker muon reconstruction. Journal of Instrumentation, 2014, 9, C10027-C10027.  | 1.2 | 1         |
| 780 | Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $s = 8 \sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 1         |
| 781 | Status report of the upgrade of the CMS muon system with Triple-GEM detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 521-525.                                 | 1.6 | 1         |
| 782 | Quality control for the first large areas of triple-GEM chambers for the CMS endcaps. EPJ Web of Conferences, 2018, 174, 03003.   | 0.3 | 1         |
| 783 | Development and performance of a fast timing micro-pattern gaseous detector (FTM) for future collider experiments and medical diagnostics. Journal of Instrumentation, 2022, 17, C02016.  | 1.2 | 1         |
| 784 | 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         |
| 785 | Observation of $B^0 \rightarrow \text{superscript}(2S)K^0_{\text{medium}} \text{uppi}^+ \text{uppi}^-$ and $B^0_{\text{medium}} \rightarrow \text{superscript}(2S)K^0_{\text{medium}} \text{uppi}^+ \text{uppi}^-$ decays. European Physical Journal C, 2022, 82, . | 3.9 | 1         |
| 786 | Simulation of the CMS Resistive Plate Chambers. Journal of Instrumentation, 2013, 8, P03001-P03001.   | 1.2 | 0         |
| 787 | Web-based monitoring tools for Resistive Plate Chambers in the CMS experiment at CERN. Journal of Instrumentation, 2014, 9, C10031-C10031.  | 1.2 | 0         |
| 788 | CMS RPC commissioning of the existing detector during the long shutdown. Journal of Instrumentation, 2014, 9, C10043-C10043.  | 1.2 | 0         |
| 789 | Status report on the CMS forward muon upgrade with large-size triple-GEM detectors. , 2014, , .   |     | 0         |
| 790 | Performance of the gas gain monitoring system of the CMS RPC muon detector. Journal of Instrumentation, 2015, 10, C01003-C01003.  | 1.2 | 0         |
| 791 | CMS muon system phase 2 upgrade with triple-GEM detectors. , 2015, , .  |     | 0         |
| 792 | Detector control system and efficiency performance for CMS RPC at GIF++. Journal of Instrumentation, 2016, 11, C10013-C10013.   | 1.2 | 0         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 793 | Muons in the CMS High Level Trigger System. Nuclear and Particle Physics Proceedings, 2016, 273-275, 2509-2511.                            | 0.5 | 0         |
| 794 | Mechanical stability of the CMS strip tracker measured with a laser alignment system. Journal of Instrumentation, 2017, 12, P04023-P04023. | 1.2 | 0         |
| 795 | Abstract ID: 242 Simulation of a Fast Timing Micro-Pattern Gaseous Detector for TOF-PET. Physica Medica, 2018, 45, S5.                     | 0.7 | 0         |
| 796 | Study of the FTM Detector Performance with Garfield++. Instruments, 2020, 4, 37.   | 1.8 | 0         |