

# Zoltan Trocsanyi

## List of Publications by Year in descending order

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Version: 2024-02-01

577  
papers

29,155  
citations

5896

81  
h-index

9861

141  
g-index

595  
all docs

595  
docs citations

595  
times ranked

10895  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Combined Measurement of the Higgs Boson Mass in $pp$ Collisions at $\sqrt{s} = 7$ and $8$ TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015, 114, 191803.  | 7.8  | 1,062     |
| 2  | Precision electroweak measurements on the Z resonance. <i>Physics Reports</i> , 2006, 427, 257-454.  | 25.6 | 974       |
| 3  | 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. <i>European Physical Journal C</i> , 2015, 75, 212. | 3.9  | 541       |
| 4  | Determination of jet energy calibration and transverse momentum resolution in CMS. <i>Journal of Instrumentation</i> , 2011, 6, P11002-P11002.   | 1.2  | 508       |
| 5  | Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016, 76, 155.  | 3.9  | 499       |
| 6  | Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.   | 4.7  | 497       |
| 7  | Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , 2012, 7, P10002-P10002.   | 1.2  | 467       |
| 8  | The dipole formalism for next-to-leading order QCD calculations with massive partons. <i>Nuclear Physics B</i> , 2002, 627, 189-265.   | 2.5  | 427       |
| 9  | Identification of b-quark jets with the CMS experiment. <i>Journal of Instrumentation</i> , 2013, 8, P04013-P04013.  | 1.2  | 418       |
| 10 | Description and performance of track and primary-vertex reconstruction with the CMS tracker. <i>Journal of Instrumentation</i> , 2014, 9, P10009-P10009.   | 1.2  | 380       |
| 11 | Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.  | 3.9  | 369       |
| 12 | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 421.   | 3.9  | 355       |
| 13 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , 2014, 74, 3076.   | 3.9  | 342       |
| 14 | Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.   | 4.7  | 320       |
| 15 | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 235.   | 3.9  | 320       |
| 16 | Measurement of the $B \rightarrow \mu \nu$ Branching Fraction and Search for $B \rightarrow \mu \nu \tau$ . <i>Physical Review Letters</i> , 2014, 113, 251801.  | 7.8  | 282       |
| 17 | Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. <i>European Physical Journal C</i> , 2014, 74, 3036.                       | 3.9  | 241       |
| 18 | Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.  | 4.7  | 230       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Observation of Sequential $\Upsilon$ Suppression in PbPb Collisions. Physical Review Letters, 2012, 109, 222301.  | 7.8 | 220       |
| 20 | Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy. Physical Review Letters, 2011, 107, 221804.  | 7.8 | 208       |
| 21 | 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       |
| 22 | 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       |
| 23 | 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       |
| 24 | 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       |
| 25 | 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       |

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| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Prompt and non-prompt $J/\psi$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.   | 3.9 | 135       |
| 38 | A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.   | 3.9 | 129       |
| 39 | Search for Dijet Resonances in $7\text{ TeV}$ Collisions at CMS. Physical Review Letters, 2010, 105, 211801.  | 7.8 | 126       |
| 40 | 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       |
| 41 | Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.              | 3.9 | 125       |
| 42 | Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 8$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.         | 3.9 | 123       |
| 43 | Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.                             | 4.7 | 122       |
| 44 | Next-to-leading order calculation of four-jet observables in electron-positron annihilation. Physical Review D, 1998, 59, .   | 4.7 | 121       |
| 45 | CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.  | 3.9 | 120       |
| 46 | The performance of the CMS muon detector in proton-proton collisions at $\sqrt{s} = 7$ TeV at the LHC. Journal of Instrumentation, 2013, 8, P11002-P11002.          | 1.2 | 119       |
| 47 | 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       |
| 48 | Multijet Cross Sections in Deep Inelastic Scattering at Next-to-Leading Order. Physical Review Letters, 2001, 87, 082001.   | 7.8 | 117       |
| 49 | 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       |
| 50 | Singular terms of helicity amplitudes at one loop in QCD and the soft limit of the cross sections of multi-parton processes. Nuclear Physics B, 1994, 420, 550-564. | 2.5 | 109       |
| 51 | 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.                   | 7.8 | 108       |
| 52 | Matching of singly- and doubly-unresolved limits of tree-level QCD squared matrix elements. Journal of High Energy Physics, 2005, 2005, 024-024.                    | 4.7 | 106       |
| 53 | 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       |
| 54 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.              | 4.7 | 103       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 55 | Missing transverse energy performance of the CMS detector. Journal of Instrumentation, 2011, 6, P09001-P09001.  | 1.2  | 102       |
| 56 | 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       |
| 57 | 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       |
| 58 | 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        |
| 59 | Search for new phenomena with the $M_{\text{T2}}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710.                   | 3.9  | 98        |
| 60 | Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7$ TeV and comparison with $\sqrt{s} = 0.9$ TeV. Journal of High Energy Physics, 2011, 2011, 1.  | 4.7  | 97        |
| 61 | Search for supersymmetry in hadronic final states using $M_{\text{T2}}$ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7  | 95        |
| 62 | Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s}=8$ TeV. Journal of Instrumentation, 2015, 10, P02006-P02006.  | 1.2  | 93        |
| 63 | Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.   | 4.7  | 92        |
| 64 | Performance of $\tau, q$ -lepton reconstruction and identification in CMS. Journal of Instrumentation, 2012, 7, P01001-P01001.  | 1.2  | 91        |
| 65 | A subtraction scheme for computing QCD jet cross sections at NNLO: regularization of doubly-real emissions. Journal of High Energy Physics, 2007, 2007, 070-070.  | 4.7  | 90        |
| 66 | Searches for new physics using the $\tilde{t}\tilde{t}^*$ invariant mass distribution in pp collisions at $\sqrt{s}=8$ TeV. Physical Review Letters, 2013, 111, 211804.   | 7.8  | 90        |
| 67 | 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        |
| 68 | Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7  | 86        |
| 69 | One-loop radiative corrections to the helicity amplitudes of QCD processes involving four quarks and one gluon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 529-536. | 4.1  | 85        |
| 70 | Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7  | 85        |
| 71 | 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        |
| 72 | 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        |

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|----|--|-----|-----------|
| 73 | 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        |
| 74 | 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        |
| 75 | Jet production in the CoLoRFulNNLO method: Event shapes in electron-positron collisions. Physical Review D, 2016, 94, .  | 4.7 | 84        |
| 76 | 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        |
| 77 | Measurement of the differential cross section and charge asymmetry for inclusive $\mathit{p} \rightarrow \mathit{W} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.           | 3.9 | 83        |
| 78 | Measurement of prompt and nonprompt charmonium suppression in $\text{PbPb}$ collisions at $5.02$ TeV. European Physical Journal C, 2018, 78, 509.  | 3.9 | 83        |
| 79 | Suppression and azimuthal anisotropy of prompt and nonprompt $\mathit{J}/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.                          | 3.9 | 82        |
| 80 | Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 82        |
| 81 | $J/\psi$ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 81        |
| 82 | 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        |
| 83 | Study of $Z$ Boson Production in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.  | 7.8 | 80        |
| 84 | Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.                       | 3.9 | 78        |
| 85 | Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 77        |
| 86 | Three-Jet Production in Electron-Positron Collisions at Next-to-Next-to-Leading Order Accuracy. Physical Review Letters, 2016, 117, 152004.  | 7.8 | 77        |
| 87 | Search for Top-Quark Partners with Charge $\pm 2/3$ in the Same-Sign Dilepton Final State. Physical Review Letters, 2014, 112, 171801.   | 7.8 | 76        |
| 88 | A subtraction scheme for computing QCD jet cross sections at NNLO: regularization of real-virtual emission. Journal of High Energy Physics, 2007, 2007, 052-052.   | 4.7 | 75        |
| 89 | Study of exclusive two-photon production of $W+W^*$ in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.                  | 4.7 | 75        |
| 90 | Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1.   | 3.9 | 75        |

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|-----|---|-----|-----------|
| 91  | Measurement of the $W^+W^-$ cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.   | 3.9 | 74        |
| 92  | Measurement of the $X(3872)$ production cross section via decays to $J/\psi\bar{\psi} + \bar{\psi}\psi$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 73        |
| 93  | 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        |
| 94  | Search for additional neutral MSSM Higgs bosons in the $\tilde{\chi}_0, \tilde{\chi}_1$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                | 4.7 | 73        |
| 95  | Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.                                | 4.7 | 70        |
| 96  | Searches for physics beyond the standard model with the $M_{T2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3. | 3.9 | 70        |
| 97  | Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 69        |
| 98  | Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 69        |
| 99  | Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 68        |
| 100 | Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.  | 3.9 | 68        |
| 101 | Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 68        |
| 102 | Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.         | 3.9 | 68        |
| 103 | Measurement of the $\overline{t}t$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.                              | 3.9 | 68        |
| 104 | Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.  | 4.7 | 66        |
| 105 | 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        |
| 106 | Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 7.8 | 65        |
| 107 | Observation of a New Baryon. Physical Review Letters, 2012, 108, 252002.  | 7.8 | 65        |
| 108 | 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        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7 \text{ mbox{TeV}}$ . European Physical Journal C, 2013, 73, 2283.<br>Search for Flavor-Changing Neutral Currents in Top-Quark Decays $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle t \langle \text{mml:mi} \rangle \langle \text{mml:mo} \text{ stretchy="false"} \rangle \hat{\tau} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle Z \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle q \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{in} \langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2016, 76, 439. | 3.9 | 64        |
| 110 | Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2016, 76, 439.  | 3.9 | 64        |
| 112 | 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        |
| 113 | Higgs boson decay into b-quarks at NNLO accuracy. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 63        |
| 114 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 63        |
| 115 | Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at $\sqrt{s} = 2.76 \text{ TeV}$ . Physical Review Letters, 2012, 109, 152303.   | 7.8 | 62        |
| 116 | Measurement of the $W+W\tilde{a}$ cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and limits on anomalous $WW\tilde{I}^3$ and $WWZ$ couplings. European Physical Journal C, 2013, 73, 1.   | 3.9 | 62        |
| 117 | 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        |
| 118 | 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        |
| 119 | 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        |
| 120 | Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.  | 4.7 | 62        |
| 121 | Measurement of the $B \rightarrow 0$ Production Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.   | 7.8 | 61        |
| 122 | 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        |
| 123 | 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, 1.   | 3.9 | 60        |
| 124 | Performance and operation of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03010-T03010.   | 1.2 | 59        |
| 125 | Alignment of the CMS silicon tracker during commissioning with cosmic rays. Journal of Instrumentation, 2010, 5, T03009-T03009.   | 1.2 | 59        |
| 126 | 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        |



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|-----|---|-----|-----------|
| 127 | Analytic integration of real-virtual counterterms in NNLO jet cross sections I. Journal of High Energy Physics, 2008, 2008, 107-107.  | 4.7 | 58        |
| 128 | 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        |
| 129 | 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        |
| 130 | Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 58        |
| 131 | Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ s NN = 5.02 TeV. European Physical Journal C, 2015, 75, 237. | 3.9 | 58        |
| 132 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $p\bar{p}$ collisions at 8 TeV. European Physical Journal C, 2018, 78, 701.              | 3.9 | 58        |
| 133 | Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. Journal of Instrumentation, 2010, 5, T03014-T03014.   | 1.2 | 57        |

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| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 145 | 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        |
| 146 | A subtraction scheme for computing QCD jet cross sections at NNLO: integrating the subtraction terms I. Journal of High Energy Physics, 2008, 2008, 042-042.  | 4.7 | 54        |
| 147 | Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288.        | 3.9 | 54        |
| 148 | Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.          | 4.7 | 54        |
| 149 | Search for charged Higgs bosons in the $H^{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.                         | 4.7 | 54        |
| 150 | Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.  | 4.7 | 54        |
| 151 | Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.   | 4.7 | 54        |
| 152 | Measurement of the $t\bar{t}$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.                                | 4.7 | 53        |
| 153 | Measurement of prompt and nonprompt $J/\psi$ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.   | 3.9 | 53        |
| 154 | Performance of CMS muon reconstruction in cosmic-ray events. Journal of Instrumentation, 2010, 5, T03022-T03022.  | 1.2 | 52        |
| 155 | Measurement of the $\tau^+\tau^-$ 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        |
| 156 | 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        |
| 157 | Measurements of the $pp \rightarrow ZZ$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.      | 3.9 | 52        |
| 158 | Next-to-Leading Order Calculation of Four-Jet Shape Variables. Physical Review Letters, 1997, 79, 3604-3607.  | 7.8 | 51        |
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