

Eija Maarit Tuominen

List of Publications by Year in descending order

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Version: 2024-02-01

438
papers

21,918
citations

10389

72
h-index

16650

123
g-index

450
all docs

450
docs citations

450
times ranked

9968
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 \sqrt{s} TeV. European Physical Journal C, 2015, 75, 212. | 3.9 | 541 |
| 2 | 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 |
| 3 | Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. Journal of Instrumentation, 2012, 7, P10002-P10002. | 1.2 | 467 |
| 4 | Transverse-Momentum and Pseudorapidity Distributions of Charged Hadrons in Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2010, 105, 022002. | 7.8 | 400 |
| 5 | 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 |
| 6 | 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 |
| 7 | Particle-flow reconstruction and global event description with the CMS detector. Journal of Instrumentation, 2017, 12, P10003-P10003. | 1.2 | 348 |
| 8 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076. | 3.9 | 342 |
| 9 | 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 |
| 10 | 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 |
| 11 | Measurement of the Branching Fraction and Search for $B \rightarrow \mu^+ \mu^- \gamma$. Physical Review Letters, 2013, 110, 081803. | 7.8 | 282 |
| 12 | Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to $Z\gamma$ and $Z\nu\bar{\nu}$ Boson Pairs. Physical Review Letters, 2013, 110, 081803. | 7.8 | 270 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801. | 7.8 | 219 |
| 17 | Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 200 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8, \text{ext } \{\text{TeV}\}$ $s = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 542. | 3.9 | 191 |
| 20 | Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Physical Review C, 2013, 87, . | 2.9 | 185 |
| 21 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. European Physical Journal C, 2012, 72, 1. | 3.9 | 181 |
| 22 | Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8, \text{ext } \{\text{TeV}\}$ $s = 8 \text{ TeV}$. European Physical Journal C, 2014, 74, 3149. | 3.9 | 179 |
| 23 | Evidence for Collective Multiparticle Correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Physical Review Letters, 2015, 115, 012301. | 7.8 | 177 |

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192. | 3.9 | 120 |
| 39 | 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 |
| 40 | 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 |
| 41 | Observation of a peaking structure in the $B \rightarrow \mu^+ \mu^-$ mass spectrum from $B \rightarrow \mu^+ \mu^-$ decays. Journal of High Energy Physics, 2011, 2011, 1. | 4.1 | 112 |
| 42 | 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 |
| 43 | 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 |
| 44 | Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 121803. | 7.8 | 102 |
| 45 | 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 |
| 46 | Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 99 |
| 47 | Measurement of the prompt $B \rightarrow \mu^+ \mu^-$ decays. Journal of High Energy Physics, 2011, 2011, 1. | | |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | Measurement of the differential cross section and charge asymmetry for inclusive $\{p\} \rightarrow \{W\}^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469. | 3.9 | 83 |
| 61 | Suppression and azimuthal anisotropy of prompt and nonprompt $\{J/\psi\}$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252. | 3.9 | 82 |
| 62 | J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 81 |
| 63 | 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 |
| 64 | 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 |
| 65 | Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 78 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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, 2015, 742, 200-224. | 4.1 | 77 |
| 69 | Search for Top-Quark Partners with Charge $\frac{7}{6}$ in the Same-Sign Dilepton Final State. Physical Review Letters, 2014, 112, 171801. | 7.8 | 76 |
| 70 | 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 |
| 71 | Measurement of the X(3872) production cross section via decays to $J/\psi + \bar{\psi}\psi$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 73 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2016, 117, 051802. | 7.8 | 73 |
| 74 | 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 |
| 75 | Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2015, 120, 202301. | 7.8 | 70 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | 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 |
| 80 | 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 |
| 81 | 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 |
| 82 | 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 |
| 83 | 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 |
| 84 | 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 |
| 85 | 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 |
| 86 | Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 021801. | 7.8 | 65 |
| 87 | 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 |
| 88 | 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 |
| 89 | Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 021801. | 7.8 | 64 |
| 90 | 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 |

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|-----|--|-----|-----------|
| 91 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 63 |
| 92 | Measurement of 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 |
| 93 | Measurement of the $W+W\bar{a}$ cross section in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous $WW\bar{f}^3$ and WWZ couplings. European Physical Journal C, 2013, 73, 1. | 3.9 | 62 |
| 94 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 13. | 3.9 | 62 |
| 95 | Measurement of the Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2017, 119, 152301. | 7.8 | 62 |
| 96 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 62 |
| 97 | Observation of Two Excited States and Measurement of the B_c States and Measurement of the B_c States. Physical Review Letters, 2017, 119, 152301. | 7.8 | 62 |
| 98 | Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2013, 110, 022003. | 7.8 | 61 |
| 99 | Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 61 |
| 100 | Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 131802. | 7.8 | 61 |
| 101 | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in $pp \rightarrow 3j$. Physical Review Letters, 2012, 109, 152303. | 3.9 | 60 |
| 102 | Measurement of the B_c States and Measurement of the B_c States. Physical Review Letters, 2017, 119, 152301. | 7.8 | 60 |
| 103 | Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 59 |
| 104 | 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 |
| 105 | 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 |
| 106 | Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 58 |
| 107 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Search for $B_{\text{c}}^0 \rightarrow \bar{c} \ell^+ \ell^-$ and $B_{\text{c}}^+ \rightarrow \bar{c} \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 57 |
| 110 | Charged particle transverse momentum spectra in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 56 |
| 111 | Exclusive $B_{\text{c}}^0 \rightarrow \bar{c} \ell^+ \ell^-$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 56 |
| 112 | A search for rare B meson decays at the CERN Sp \bar{p} ,S collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 262, 163-170. | 4.1 | 55 |
| 113 | Measurement of masses in the $\overline{\text{tt}}$ system by kinematic endpoints in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2494. | 3.9 | 55 |
| 114 | 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 |
| 115 | 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 |
| 116 | Measurement of the $\text{t}\bar{\text{t}}$ cross section in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451. | | |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Measurements of the $\sigma(\text{pp} \rightarrow \text{Z}\nu\bar{\nu})$ production cross section and the $\text{BR}(\text{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165. | 3.9 | 52 |
| 128 | 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 |
| 129 | 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 |
| 130 | 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 |
| 131 | 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 |
| 132 | Measurement of differential cross sections for top quark pair production using the $\langle \text{lepton} \rangle \langle \text{jets} \rangle$ final state in proton-proton collisions at 13 TeV. Physical Review D, 2017, 95, . | 4.7 | 50 |
| 133 | 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 |
| 134 | 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 |
| 135 | Search for leptonic decays of $W^{\pm 2}$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 49 |
| 136 | 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 |
| 137 | Observation of $\Upsilon(1S)$ pair production in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 48 |
| 138 | Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2017, 96, . | 4.7 | 48 |
| 139 | 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 |
| 140 | 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 |
| 141 | Yield Ratios in Pb-Pb and p-Pb Collisions. Physical Review Letters, 2015, 115, 252301. | 7.8 | 47 |
| 142 | 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 |
| 143 | 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 |
| 144 | Search for disappearing tracks in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 46 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Search for heavy bottom-like quarks in 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 45 |
| 146 | Angular analysis and branching fraction measurement of the decay $B \rightarrow K^* \mu^+ \mu^-$. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 77-100. | 4.1 | 45 |
| 147 | Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802. | 7.8 | 45 |
| 148 | Search for microscopic black holes in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 44 |
| 149 | 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 |
| 150 | Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 151. | 3.9 | 44 |
| 151 | Search for pair-produced dijet resonances in four-jet final states in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2014, 74, 3060. | 7.8 | 43 |
| 152 | Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2014, 74, 3060. | 3.9 | 43 |
| 153 | Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 43 |
| 154 | Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 325. | 3.9 | 43 |
| 155 | Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2012, 72, 1. | 3.9 | 42 |
| 156 | Evidence for exclusive $\hat{t}\bar{t} W + W \hat{t}\bar{t}$ production and constraints on anomalous quartic gauge couplings in pp collisions at $s = 7 \text{ TeV}$ and 8 TeV . Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 42 |
| 157 | Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 41 |
| 158 | Search for fractionally charged particles in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 41 |
| 159 | Measurement of the $t\bar{t} A$ production cross section in the $e\bar{e} \rightarrow t\bar{t} A$ channel in proton-proton collisions at $s = 7 \text{ TeV}$ and 8 TeV . Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 41 |
| 160 | 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 $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 41 |
| 161 | Measurement of properties of $B_s^0 \rightarrow \tau^+ \tau^-$ decays and search for $B_s^0 \rightarrow \tau^+ \tau^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 41 |
| 162 | Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 41 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | 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 |
| 164 | Measurement of the $\overline{\text{t}}\text{t}\hat{\text{A}}^-$ production cross section using events in the $\mu e \hat{\nu}_\tau$ final state in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 172. | 3.9 | 40 |
| 165 | Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2017, 119, 221802. | 7.8 | 40 |
| 166 | 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 |
| 167 | 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 |
| 168 | Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 39 |
| 169 | Measurement of the $Z\hat{\nu}_\tau b$ -jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 39 |
| 170 | Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 39 |
| 171 | Measurement of the ZZ production cross section and search for anomalous couplings in $2\hat{\nu}_\tau$ final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 39 |
| 172 | Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 39 |
| 173 | Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, Section B: Nuclear, Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in $2\hat{\nu}_\tau$ Final States in pp Collisions at the LHC. Physical Review Letters, 2018, 120, 092301. | 7.8 | 39 |
| 174 | Search for heavy stable charged particles in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 38 |
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