

Roman Kogler

List of Publications by Year in descending order

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Version: 2024-02-01

467
papers

18,590
citations

13827

67
h-index

24179

110
g-index

483
all docs

483
docs citations

483
times ranked

9519
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. | 1.4 | 541 |
| 2 | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155. | 1.4 | 499 |
| 3 | Combined measurement and QCD analysis of the inclusive $e^{\pm} p$ scattering cross sections at HERA. Journal of High Energy Physics, 2010, 2010, 1. | 1.6 | 458 |
| 4 | The global electroweak fit at NNLO and prospects for the LHC and ILC. European Physical Journal C, 2014, 74, 1. | 1.4 | 433 |
| 5 | Combination of measurements of inclusive deep inelastic $e^{\pm} p$ scattering cross sections and QCD analysis of HERA data. European Physical Journal C, 2015, 75, 1. | 1.4 | 383 |
| 6 | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421. | 1.4 | 355 |
| 7 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076. | 1.4 | 342 |
| 8 | 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. | 1.4 | 320 |
| 9 | The electroweak fit of the standard model after the discovery of a new boson at the LHC. European Physical Journal C, 2012, 72, 1. | 1.4 | 286 |
| 10 | Update of the global electroweak fit and constraints on two-Higgs-doublet models. European Physical Journal C, 2018, 78, 1. | 1.4 | 253 |
| 11 | 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. | 1.4 | 241 |
| 12 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4. | 1.4 | 198 |
| 13 | 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. | 1.4 | 191 |
| 14 | 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. | 1.4 | 179 |
| 15 | | | |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Combination and QCD analysis of charm production cross section measurements in deep-inelastic ep scattering at HERA. <i>European Physical Journal C</i> , 2013, 73, 1. | 1.4 | 134 |
| 20 | Jet substructure at the Large Hadron Collider. <i>Reviews of Modern Physics</i> , 2019, 91, . | 16.4 | 128 |
| 21 | Boosted objects and jet substructure at the LHC. Report of BOOST2012, held at IFIC Valencia, 23rd–27th of July 2012. <i>European Physical Journal C</i> , 2014, 74, 1. | 1.4 | 124 |
| 22 | Evidence for the 125 GeV Higgs boson decaying to a pair of \tilde{l} , leptons. <i>Journal of High Energy Physics</i> , 2014, 2014, 1. | 1.6 | 123 |
| 23 | Precision luminosity measurement in proton–proton collisions at $\sqrt{s} = 13, 8 \text{ TeV}$ in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , 2021, 81, 800. | 1.4 | 123 |
| 24 | Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 1.6 | 118 |
| 25 | Measurement of the inclusive e^+p scattering cross section at high inelasticity y and of the structure function F_L . <i>European Physical Journal C</i> , 2011, 71, 1. | 1.4 | 110 |
| 26 | Physics at the e^+e^- linear collider. <i>European Physical Journal C</i> , 2015, 75, 371. | 1.4 | 110 |
| 27 | Measurement of the charm and beauty structure functions using the H1 vertex detector at HERA. <i>European Physical Journal C</i> , 2010, 65, 89-109. | 1.4 | 103 |
| 28 | Towards an understanding of the correlations in jet substructure. <i>European Physical Journal C</i> , 2015, 75, 1. | 1.4 | 103 |
| 29 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 1.6 | 103 |
| 30 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 1.6 | 101 |
| 31 | Measurement of deeply virtual Compton scattering and its t -dependence at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 659, 796-806. | 1.5 | 100 |
| 32 | Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2014, 2014, 1. | 1.6 | 100 |
| 33 | Measurement of the inclusive ep scattering cross section at low Q^2 and x at HERA. <i>European Physical Journal C</i> , 2009, 63, 625. | 1.4 | 99 |
| 34 | Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton–proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>European Physical Journal C</i> , 2017, 77, 710. | 1.4 | 98 |
| 35 | Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8, \text{ and } 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 1.6 | 95 |
| 36 | Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. <i>Journal of High Energy Physics</i> , 2015, 2015, 1. | 1.6 | 92 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Diffractive electroproduction of \bar{D} and D mesons at HERA. Journal of High Energy Physics, 2010, 2010, 1. | 1.6 | 90 |
| 38 | Measurement of the proton structure function F_2 at HERA. Journal of High Energy Physics, 2010, 2010, 1. | 1.5 | 89 |
| 39 | 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. | 1.4 | 88 |
| 40 | 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. | 1.6 | 86 |
| 41 | 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. | 1.6 | 85 |
| 42 | 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. | 1.6 | 85 |
| 43 | 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. | 1.4 | 85 |
| 44 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017. | 0.5 | 84 |
| 45 | Measurement of the differential cross section and charge asymmetry for inclusive $p \rightarrow W + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469. | 1.4 | 83 |
| 46 | Measurement of prompt and nonprompt charmonium suppression in $PbPb$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509. | 1.4 | 83 |
| 47 | Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252. | 1.4 | 82 |
| 48 | 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. | 1.6 | 82 |
| 49 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 81 |
| 50 | Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 81 |
| 51 | 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. | 1.6 | 78 |
| 52 | 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. | 1.4 | 78 |
| 53 | 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. | 1.6 | 77 |
| 54 | Measurement of inclusive $e p$ cross sections at high Q^2 at $\sqrt{s} = 225$ and 252 GeV and of the longitudinal proton structure function F_L at HERA. European Physical Journal C, 2014, 74, 1. | 1.4 | 76 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Measurement of leading neutron production in deep-inelastic scattering at HERA. European Physical Journal C, 2010, 68, 381-399. | 1.4 | 75 |
| 56 | 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. | 1.6 | 75 |
| 57 | 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. | 1.4 | 75 |
| 58 | 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. | 1.4 | 74 |
| 59 | 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. | 1.4 | 73 |
| 60 | Search for additional neutral MSSM Higgs bosons in the \tilde{l}, \tilde{l}^* final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 73 |
| 61 | A precision measurement of the inclusive ep scattering cross section at HERA. European Physical Journal C, 2009, 64, 561-587. | 1.4 | 71 |
| 62 | Higgs coupling measurements at the LHC. European Physical Journal C, 2016, 76, 1. | 1.4 | 71 |
| 63 | 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. | 1.6 | 70 |
| 64 | 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. | 1.4 | 70 |
| 65 | 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. | 1.6 | 69 |
| 66 | 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. | 1.6 | 68 |
| 67 | 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. | 1.4 | 68 |
| 68 | Measurement of the $t\bar{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368. | 1.4 | 68 |
| 69 | 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. | 1.6 | 66 |
| 70 | 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. | 1.4 | 65 |
| 71 | 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. | 1.4 | 64 |
| 72 | 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. | 1.6 | 63 |

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|----|--|-----|-----------|
| 73 | Measurement of the $W+W\tilde{a}$ cross section in pp collisions at $\sqrt{s} = 7\text{ TeV}$ and limits on anomalous $WW\tilde{1}^3$ and WWZ couplings. European Physical Journal C, 2013, 73, 1. | 1.4 | 62 |
| 74 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8,\text{ext}\{TeV\}$ $s = 8\text{ TeV}$. European Physical Journal C, 2016, 76, 13. | 1.4 | 62 |
| 75 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $s = 13\sqrt{s}=13\sqrt{s}\text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 62 |
| 76 | Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13\sqrt{s}\text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 62 |
| 77 | Deeply virtual Compton scattering and its beam charge asymmetry in e^+e^- collisions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 681, 391-399. | | |
| 78 | Jet production in ep collisions at low Q^2 and determination of $\hat{\Gamma}_{\pm}$ s. European Physical Journal C, 2010, 67, 1-24. | 1.4 | 61 |
| 79 | Measurement of prompt J/ψ pair production in pp collisions at $s = 7\sqrt{s}\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 61 |
| 80 | Jet production in ep collisions at high Q^2 and determination of $\hat{\Gamma}_{\pm}$ s. European Physical Journal C, 2010, 65, 363-383. | 1.4 | 60 |
| 81 | Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02\sqrt{s_{NN}} = 5.02\sqrt{s_{NN}}\text{ TeV}$. European Physical Journal C, 2015, 75, 237. | 1.4 | 58 |
| 82 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $p\bar{p}$ collisions at $8\sqrt{s},\text{ext}\{TeV\}$ $s = 8\sqrt{s},\text{ext}\{TeV\}\text{ TeV}$. European Physical Journal C, 2018, 78, 701. | 1.4 | 58 |
| 83 | Inclusive deep inelastic scattering at high Q^2 with longitudinally polarised lepton beams at HERA. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 57 |
| 84 | Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13,\text{ext}\{TeV\}$ $s = 13,\text{ext}\{TeV\}\text{ TeV}$. European Physical Journal C, 2017, 77, 578. | 1.4 | 57 |
| 85 | Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=13\sqrt{s}\text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 57 |
| 86 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13\sqrt{s}\text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 57 |
| 87 | Event activity dependence of Υ (nS) production in $\sqrt{s_{NN}} = 5.02\sqrt{s_{NN}}\text{ TeV}$ pPb and $\sqrt{s} = 2.76\sqrt{s}\text{ TeV}$ pp collisions. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 56 |
| 88 | Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7\sqrt{s}\text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 55 |
| 89 | Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13,\text{ext}\{TeV\}$ $s = 13\sqrt{s}\text{ TeV}$. European Physical Journal C, 2016, 76, 451. | 1.4 | 55 |
| 90 | Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7\sqrt{s},\text{ext}\{TeV\}$ $s = 7\sqrt{s},\text{ext}\{TeV\}\text{ TeV}$. European Physical Journal C, 2015, 75, 288. | 1.4 | 54 |

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|-----|--|-----|-----------|
| 91 | 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. | 1.6 | 54 |
| 92 | Search for charged Higgs bosons in the $H \rightarrow \tau^+ \tau^-$ decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 54 |
| 93 | 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. | 1.6 | 54 |
| 94 | Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at $\sqrt{s_{NN}}=5.02$, ext {TeV} s. European Physical Journal C, 2017, 77, 269. | 1.4 | 53 |
| 95 | Measurement of the Υ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 52 |
| 96 | 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. | 1.4 | 52 |
| 97 | Measurements of the $\sigma(\text{pp} \rightarrow Z\text{pp})$ production cross section and the $\sigma(\text{pp} \rightarrow Z\text{pp})$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165. | 1.4 | 52 |
| 98 | Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 51 |
| 99 | Inelastic production of J/ψ mesons in photoproduction and deep inelastic scattering at HERA. European Physical Journal C, 2010, 68, 401-420. | 1.4 | 50 |
| 100 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$, ext {TeV} s. European Physical Journal C, 2019, 79, 564. | 1.4 | 50 |
| 101 | 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. | 1.4 | 49 |
| 102 | Combination and QCD analysis of charm and beauty production cross-section measurements in deep inelastic ep scattering at HERA. European Physical Journal C, 2018, 78, 1. | 1.4 | 49 |
| 103 | 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. | 1.6 | 48 |
| 104 | Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 48 |
| 105 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} s = 13 Te. European Physical Journal C, 2019, 79, 364. | 1.4 | 48 |
| 106 | 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. | 1.6 | 47 |
| 107 | Search for disappearing tracks in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 46 |
| 108 | Search for third-generation scalar leptoquarks decaying to a top quark and a τ , lepton at $\sqrt{s}=13$, ext {TeV} s = 13 Te. European Physical Journal C, 2018, 78, 707. | 1.4 | 46 |

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|-----|--|-----|-----------|
| 109 | 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. | 1.6 | 44 |
| 110 | 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. | 1.4 | 44 |
| 111 | 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. | 1.4 | 44 |
| 112 | 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. | 1.4 | 43 |
| 113 | Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 43 |
| 114 | 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. | 1.4 | 43 |
| 115 | Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 43 |
| 116 | Evidence for exclusive $\bar{t}t' W + W \bar{a}'$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 42 |
| 117 | Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 42 |
| 118 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 42 |
| 119 | Measurement of D^{\pm} meson production and determination of F_2^{car} at low Q^2 in deep-inelastic scattering at HERA. European Physical Journal C, 2011, 71, 1. | 1.4 | 41 |
| 120 | Measurement of the $t \bar{t}$ 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. | 1.6 | 41 |
| 121 | Measurement of the $t \bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128. | 1.4 | 41 |
| 122 | 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. | 1.6 | 41 |
| 123 | Measurement of properties of $B_s^0 \rightarrow \bar{t}t'$ decays and search for $B \rightarrow t' \bar{t}'$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 41 |
| 124 | Measurement of the $t \bar{t}$ 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. | 1.4 | 40 |
| 125 | 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. | 1.4 | 40 |
| 126 | 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. | 1.4 | 40 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 40 |
| 128 | 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. | 1.4 | 40 |
| 129 | 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. | 1.6 | 39 |
| 130 | Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 965. | 1.4 | 39 |
| 131 | Measurement of the cross section for diffractive deep-inelastic scattering with a leading proton at HERA. European Physical Journal C, 2011, 71, 1. | 1.4 | 38 |
| 132 | Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 845. | 1.4 | 38 |
| 133 | Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636. | 1.4 | 38 |
| 134 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying l, leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 38 |
| 135 | Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 37 |
| 136 | Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 236. | 1.4 | 37 |
| 137 | Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 37 |
| 138 | Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 37 |
| 139 | Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\gamma\gamma$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 36 |
| 140 | Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 2758. | 1.4 | 35 |
| 141 | Search for heavy Majorana neutrinos in e^+e^- jets and $e^+e^- \gamma\gamma$ jets events in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 35 |
| 142 | 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. | 1.6 | 35 |
| 143 | Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 35 |
| 144 | Measurement of exclusive γp photoproduction from protons in $p p$ collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 277. | 1.4 | 35 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton–proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 488. | 1.4 | 35 |
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