

Aniello Spiezia

List of Publications by Year in descending order

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Version: 2024-02-01

330
papers

10,525
citations

38720

50
h-index

58549

82
g-index

344
all docs

344
docs citations

344
times ranked

8273
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155. | 1.4 | 499 |
| 2 | Particle-flow reconstruction and global event description with the CMS detector. Journal of Instrumentation, 2017, 12, P10003-P10003. | 0.5 | 348 |
| 3 | 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. | 1.6 | 320 |
| 4 | The CMS trigger system. Journal of Instrumentation, 2017, 12, P01020-P01020. | 0.5 | 307 |
| 5 | Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801. | 2.9 | 219 |
| 6 | Observation of $t\bar{t}$ Production. Physical Review Letters, 2018, 120, 231801. | 2.9 | 209 |
| 7 | 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 |
| 8 | Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2018, 13, P06015-P06015. | 0.5 | 180 |
| 9 | Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2016, 116, 172302. | 2.9 | 160 |
| 10 | Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2016, 116, 172302. | 2.9 | 139 |
| 11 | 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. | 1.4 | 123 |
| 12 | Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2016, 116, 071801. | 2.9 | 114 |
| 13 | Observation of Charge-Dependent Azimuthal Correlations in pp Collisions and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 118, 122301. | 2.9 | 107 |
| 14 | 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. | 1.6 | 103 |
| 15 | Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 122, 121803. | 2.9 | 102 |
| 16 | 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. | 1.6 | 101 |
| 17 | Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s}=7, 8, 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 95 |
| 18 | Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2017, 118, 122301. | 2.9 | 86 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Measurement of the differential cross section and charge asymmetry for inclusive $\{p\}\mathrm{p}\rightarrow\mathrm{W}^{\pm}\mathrm{p}\mathrm{p}\rightarrow\mathrm{W}^{\pm}\mathrm{X}+X$ production at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 469. | 1.4 | 83 |
| 22 | Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s}=13$ TeV using the CMS detector. Journal of Instrumentation, 2019, 14, P07004-P07004. | 0.5 | 83 |
| 23 | 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 |
| 24 | 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 |
| 25 | Search for Narrow Resonances in Dijet Final States at $\sqrt{s}=13$ TeV. Physical Review Letters, 2016, 117, 031802. | 2.9 | 74 |
| 26 | Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2016, 117, 051802. | 2.9 | 73 |
| 27 | Search for additional neutral MSSM Higgs bosons in the $\tau\tau$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 73 |
| 28 | Measurement of the Splitting Function in $p\bar{p}\rightarrow\mathrm{W}^{\pm}\mathrm{Z}\nu$ and Pb-Pb Collisions at $\sqrt{s}=2.76$ TeV. Physical Review Letters, 2018, 120, 022301. | 2.9 | 70 |
| 29 | Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2018, 120, 202301. | 2.9 | 70 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2017, 119, 152301. | 2.9 | 62 |
| 34 | 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. | 1.6 | 62 |
| 35 | Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 62 |
| 36 | Observation of Two Excited States and Measurement of the $\sigma(\mathrm{pp}\rightarrow\mathrm{W}^{\pm}\mathrm{Z}\nu)$ at $\sqrt{s}=13$ TeV. Physical Review Letters, 2017, 119, 152301. | 2.9 | 62 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC. Journal of Instrumentation, 2021, 16, P05014. | 0.5 | 62 |
| 38 | Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 62 |
| 39 | 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. | 2.9 | 61 |
| 40 | Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 57 |
| 41 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 57 |
| 42 | 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. | 1.4 | 55 |
| 43 | 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 |
| 44 | Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 141802. | 2.9 | 54 |
| 45 | 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. | 1.6 | 54 |
| 46 | 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 |
| 47 | Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 54 |
| 48 | Measurement of prompt and nonprompt χ_{\pm}^0 production in pp and pPb collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269. | 1.4 | 53 |
| 49 | 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 |
| 50 | Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 121, 241802. | 2.9 | 50 |
| 51 | Observation of $\Upsilon(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 48 |
| 52 | Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity pPb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2015, 115, 252301. | 2.9 | 48 |
| 53 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Evidence for exclusive $\hat{t}\hat{t}^* W + W \hat{a}^-$ 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | Measurement of the $t \bar{t} \hat{A}^-$ production cross section in the $e\hat{t}^*$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 41 |
| 59 | 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 |
| 60 | Measurement of properties of $B_s^0 \hat{a}^+ \hat{t}^* \hat{t}^*$ decays and search for $B \hat{a}^+ \hat{t}^* \hat{t}^*$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1. | 1.8 | 41 |
| 61 | Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 41 |
| 62 | Measurement of the $t \bar{t} \hat{A}^-$ production cross section using events in the $e\hat{t}^* \hat{t}^*$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172. | 1.4 | 40 |
| 63 | 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. | 2.9 | 40 |
| 64 | Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. Physical Review Letters, 2018, 120, 071802. | 2.9 | 40 |
| 65 | 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 |
| 66 | 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 |
| 67 | Suppression of Excited $\hat{t}\hat{t}^* \hat{A}^-$ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2018, 120, 142301. | 2.9 | 39 |
| 68 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying τ , leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 38 |
| 69 | Measurements of $\hat{t}\hat{t}^* \hat{A}^-$ Production and the C Structure of the Yukawa Coupling. European Physical Journal C, 2017, 77, 236. | 2.9 | 38 |
| 70 | 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 |
| 71 | 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 |
| 72 | | | |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 021801. | 2.9 | 37 |
| 74 | 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 |
| 75 | Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 36 |
| 76 | Search for Narrow Resonances in the $b\bar{b}$ -Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 201801. | 2.9 | 36 |
| 77 | Search for heavy Majorana neutrinos in e^+e^- jets and $e^+\nu_{\tau}$ jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 35 |
| 78 | Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s} = 7$ and 8 TeV. Physical Review Letters, 2017, 119, 111802. | 2.9 | 35 |
| 79 | 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 |
| 80 | 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 |
| 81 | 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. | 1.4 | 35 |
| 82 | Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 116, 052002. | 2.9 | 34 |
| 83 | 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. | 1.4 | 34 |
| 84 | 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. | 1.4 | 34 |
| 85 | Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two τ , leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 34 |
| 86 | Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 34 |
| 87 | Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371. | 1.4 | 33 |
| 88 | Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two τ , leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 33 |
| 89 | 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. | 1.4 | 33 |
| 90 | Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 3. | 1.4 | 33 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Measurement of $\sigma_{\text{pp}}^{\text{normalised}}$ normalised multi-differential cross sections in $\sqrt{s}=13$ TeV collisions, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution function. European Physical Journal C, 2017, 77, 81. | 1.4 | 33 |
| 92 | Correlations in Pb-Pb and pp collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 242301. | 2.9 | 32 |
| 93 | Searches for pair production of third-generation squarks in $\sqrt{s}=13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327. | 1.4 | 32 |
| 94 | Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s}=13$ TeV Using Isolated Photon-Tagged Jets. Physical Review Letters, 2018, 121, 242301. | 2.9 | 32 |
| 95 | Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s}=2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 31 |
| 96 | Search for top squark pair production in pp collisions at $\sqrt{s}=13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 31 |
| 97 | Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 31 |
| 98 | Search for massive WH resonances decaying into the $b\bar{b}$ final state at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 237. | 1.4 | 30 |
| 99 | Observation of Single Top Quark Production in Association with a Z Boson in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 122, 132003. | 2.9 | 30 |
| 100 | Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s}=5.02$ TeV. European Physical Journal C, 2016, 76, 372. | 1.4 | 29 |
| 101 | Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s}=2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 29 |
| 102 | A search for new phenomena in pp collisions at $\sqrt{s}=13$ TeV in final states with missing transverse momentum and at least one jet using the \cancel{E}_T variable. European Physical Journal C, 2017, 77, 294. | 1.4 | 29 |
| 103 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 29 |
| 104 | Search for lepton flavour violating decays of the Higgs boson to $\tau\mu$, and $e\tau$, in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 29 |
| 105 | Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 29 |
| 106 | Measurements of $\sigma_{\text{pp}}^{\text{differential}}$ differential cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV using events containing two leptons. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 28 |
| 107 | Search for $\tau\bar{\tau}H$ production in the $\tau\bar{\tau}H$ decay channel with leptonic τ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 28 |
| 108 | Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 28 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 28 |
| 110 | Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 27 |
| 111 | Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027. | 0.5 | 27 |
| 112 | Search for new neutral Higgs bosons through the $\text{H} \rightarrow \text{b}\bar{\text{b}}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 27 |
| 113 | Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76$, ext {TeV} s = 2.76 TeV. European Physical Journal C, 2016, 76, 1. | 1.4 | 26 |
| 114 | Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 26 |
| 115 | Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 26 |
| 116 | Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 26 |
| 117 | Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ s = 8 TeV. European Physical Journal C, 2016, 76, 325. | 1.4 | 25 |
| 118 | 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. | 1.6 | 25 |
| 119 | Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 25 |
| 120 | Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 25 |
| 121 | Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 2.9 | 24 |
| 122 | Relative Modification of Prompt Neutrino Production in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 2.9 | 24 |
| 123 | Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 24 |
| 124 | Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at $\sqrt{s} = 2.76$ TeV. European Physical Journal C, 2017, 77, 467. | 2.9 | 24 |
| 125 | Measurements of $\text{pp} \rightarrow \text{Z}\gamma\text{pp}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$, ext {TeV} TeV. European Physical Journal C, 2021, 81, 200. | 1.4 | 24 |
| 126 | Measurement of the jet mass in highly boosted $\text{t}\bar{\text{t}}$ events from pp collisions at $\sqrt{s}=8$ TeV, ext {TeV} TeV. European Physical Journal C, 2017, 77, 467. | 1.4 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Observation of Top Quark Production in Proton-Nucleus Collisions. Physical Review Letters, 2017, 119, 242001. | 2.9 | 23 |
| 128 | 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. | 1.6 | 23 |
| 129 | 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. | 1.6 | 23 |
| 130 | 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. | 1.4 | 23 |
| 131 | Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 23 |
| 132 | Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 23 |
| 133 | Search for resonant $\overline{t}t$ production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 23 |
| 134 | Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 123, 231803. | 2.9 | 23 |
| 135 | Search for a light pseudoscalar Higgs boson in the boosted $t\bar{t}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 23 |
| 136 | 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. | 1.4 | 23 |
| 137 | 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. | 1.6 | 23 |
| 138 | Evidence for X(3872) in Pb-Pb Collisions and Studies of its Prompt Production at $\sqrt{s}=2.76$ TeV. Physical Review Letters, 2022, 128, 032001. | 2.9 | 23 |
| 139 | Search for $t\bar{t}\overline{t}t$ 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. | 1.6 | 22 |
| 140 | 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. | 1.6 | 22 |
| 141 | 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. | 1.6 | 22 |
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