

Shahram Rahatlou

List of Publications by Year in descending order

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Version: 2024-02-01

621
papers

28,141
citations

5896

81
h-index

12946

131
g-index

641
all docs

641
docs citations

641
times ranked

10732
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Observation of a Broad Structure in the J/ψ Mass Spectrum around $4.26 \text{ GeV}/c^2$. Physical Review Letters, 2005, 95, 142001. | 7.8 | 650 |
| 2 | Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 $\sqrt{s} = 7, 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 212. | 3.9 | 541 |
| 3 | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155. | 3.9 | 499 |
| 4 | Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1. | 4.7 | 497 |
| 5 | Observation of CP Violation in the B^0 Meson System. Physical Review Letters, 2001, 87, 091801. | 7.8 | 426 |
| 6 | Study of high- p_T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. European Physical Journal C, 2012, 72, 1. | 3.9 | 369 |
| 7 | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 421. | 3.9 | 355 |
| 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 $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 235. | 3.9 | 320 |
| 11 | The Physics of the B Factories. European Physical Journal C, 2014, 74, 1. | 3.9 | 292 |
| 12 | Evidence of a Broad Structure at an Invariant Mass of $4.32 \text{ GeV}/c^2$ in the Reaction $e^+e^- \rightarrow \psi(2S)$ Measured at BABAR. Physical Review Letters, 2007, 98, 212001. | 7.8 | 247 |
| 13 | 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 |
| 14 | 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 |
| 15 | Study of $e^+e^- \rightarrow \psi(2S)$ using initial state radiation with BABAR. Physical Review D, 2006, 73, . | 4.7 | 207 |
| 16 | Evidence for D^0 - \bar{D}^0 Mixing. Physical Review Letters, 2007, 98, 211802. | 7.8 | 205 |
| 17 | Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. 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 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ mbox}\{\text{TeV}\}$. European Physical Journal C, 2012, 72, 1. | 3.9 | 181 |
| 21 | 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 |

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1. | 3.9 | 135 |
| 38 | Observation of γ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1. | 7.8 | 133 |
| 39 | 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 |
| 40 | $\sigma(\text{pp} \rightarrow \text{e}^+ \text{e}^- \text{W}^+ \text{W}^-)$, $\sigma(\text{pp} \rightarrow \text{e}^+ \text{e}^- \text{Z})$ and $\sigma(\text{pp} \rightarrow \text{K}^+ \text{K}^-)$ cross sections at center-of-mass energies from production threshold to 4.5 GeV measured with initial-state radiation. Physical Review D, 2006, 73, . | 4.7 | 128 |
| 41 | Measurement of CP-Violating Asymmetries in B^0 Decays to CP Eigenstates. Physical Review Letters, 2001, 86, 2515-2522. | 7.8 | 125 |
| 42 | 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 |
| 43 | Evidence for the 125 GeV Higgs boson decaying to a pair of τ , leptons. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 123 |
| 44 | 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 |
| 45 | Structure at 2175 MeV in $\text{e}^+ \text{e}^- \rightarrow \tau^+ \tau^- \gamma$ observed via initial-state radiation. Physical Review D, 2006, 74, . | 4.7 | 122 |
| 46 | 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 |
| 47 | CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192. | 3.9 | 120 |
| 48 | 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 |
| 49 | Study of $\text{e}^+ \text{e}^- \rightarrow \tau^+ \tau^- \gamma$ production in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2007, 75, 014011. | 4.7 | 117 |
| 50 | 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 |
| 51 | Search for resonances in exclusive $\text{e}^+ \text{e}^- \rightarrow \text{B}^0 \text{D}^0$ decays to $\text{K}^+ \text{K}^-$. Physical Review D, 2007, 75, 014011. | 4.7 | 116 |
| 52 | Observation of a Charmed Baryon Decaying to $\text{D}^0 \text{p}$ at a Mass Near 2.94 GeV/c ² . Physical Review Letters, 2007, 98, 012001. | 7.8 | 114 |
| 53 | Search for $\text{B}^+ \rightarrow \text{X}(3872) \text{K}^+$, $\text{X}(3872) \rightarrow \text{J}/\psi \gamma$. Physical Review D, 2006, 74, . | 4.7 | 113 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | 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 |
| 74 | 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 |
| 75 | 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 |
| 76 | Study of the $X(3872)$ and $Y(4260)$ in $B_0 \rightarrow J/\psi \bar{K}^0$ and $B_s \rightarrow J/\psi \bar{K}^0$ decays. Physical Review D, 2006, 73, .4.7 | 4.7 | 84 |
| 77 | Study of the exclusive initial-state-radiation production of the D^0 system. Physical Review D, 2007, 76, . | 4.7 | 84 |
| 78 | 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 |
| 79 | 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 |
| 80 | Measurement of the differential cross section and charge asymmetry for inclusive $W \rightarrow \mu \nu$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469. | 3.9 | 83 |
| 81 | Measurement of prompt and nonprompt charmonium suppression in $PbPb$ collisions at 5.02 TeV. European Physical Journal C, 2018, 78, 509. | 3.9 | 83 |
| 82 | 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. | 3.9 | 82 |
| 83 | J/ψ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 81 |
| 84 | 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 |
| 85 | Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 81 |
| 86 | Measurement of the Cabibbo-Kobayashi-Maskawa Angle β in $B^0 \rightarrow D^+ \pi^-$ Decays with a Dalitz Analysis of $D^0 \rightarrow K^+ K^- \pi^0$. Physical Review Letters, 2005, 95, 121802. | 7.8 | 79 |
| 87 | 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 |
| 88 | 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 |
| 89 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Study of exclusive two-photon production of $W+W^{\sim}$ 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 |
| 92 | Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. European Physical Journal C, 2014, 74, 1. | 3.9 | 75 |
| 93 | 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 |
| 94 | 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 |
| 95 | 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 |
| 96 | The SABRE project and the SABRE Proof-of-Principle. European Physical Journal C, 2019, 79, 1. | 3.9 | 73 |
| 97 | Measurements of the Absolute Branching Fractions of $B^{\pm} \rightarrow K^{\pm} X_{cc}$. Physical Review Letters, 2006, 96, 052002. | 7.8 | 71 |
| 98 | Search For T, CP, and CPT Violation in $B^0 \rightarrow B^0$ Mixing with Inclusive Dilepton Events. Physical Review Letters, 2006, 96, 251802. | 7.8 | 71 |
| 99 | Measurement of the $B^+ \rightarrow \pi^+ K^+$ branching fraction and study of the decay dynamics. Physical Review D, 2005, 72, . | 4.7 | 70 |
| 100 | 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 |
| 101 | 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 |
| 102 | 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 |
| 103 | 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 |
| 104 | Measurement of the $B \rightarrow \pi^+ X$ branching fraction and photon energy spectrum using the recoil method. Physical Review D, 2008, 77, . | 4.7 | 68 |
| 105 | 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 |
| 106 | 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 |
| 107 | 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 |
| 108 | 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 |

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|-----|--|-----|-----------|
| 109 | Measurement of the $\sigma(\text{pp} \rightarrow t\bar{t})$ 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. | 3.9 | 68 |
| 110 | Measurement of the $\hat{\Gamma}(\text{B} \rightarrow \text{D}^* \ell^+ \ell^-)$ transition form factors at $q^2 = 11.2 \text{ GeV}^2$. Physical Review D, 2006, 74, . | 4.7 | 67 |
| 111 | Search for CP Violation in the Decays $\text{D}^0 \rightarrow \text{K}^+ \text{K}^-$ and $\text{D}^0 \rightarrow \text{K}^+ \text{K}^-$. Physical Review Letters, 2008, 100, 061803. | 7.8 | 65 |
| 112 | Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 65 |
| 113 | Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2014, 74, 3129. | 3.9 | 65 |
| 114 | Search for $\text{B} \rightarrow \text{K}^* \ell^+ \ell^-$ decays with hadronic B tags. Physical Review D, 2008, 77, . | 4.7 | 64 |
| 115 | Exclusive Branching-Fraction Measurements of Semileptonic $\text{B} \rightarrow \text{K}^* \ell^+ \ell^-$ Decays into Three Charged Hadrons, $\text{B} \rightarrow \text{K}^* \ell^+ \ell^-$, and $\text{B} \rightarrow \text{K}^* \ell^+ \ell^-$. Physical Review Letters, 2008, 100, 011801. | 7.8 | 64 |
| 116 | Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2013, 73, 2283. | 3.9 | 64 |
| 117 | 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 |
| 118 | Dalitz plot analysis of the decay $\text{B}^0 \rightarrow \text{K}^+ \text{K}^- \text{K}^0$. Physical Review D, 2006, 74, . | 4.7 | 63 |
| 119 | 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 |
| 120 | Measurement of the $W+W\gamma$ cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and limits on anomalous $WW\gamma^3$ and WWZ couplings. European Physical Journal C, 2013, 73, 1. | 3.9 | 62 |
| 121 | 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 |
| 122 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 62 |
| 123 | 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 |
| 124 | Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 61 |
| 125 | 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 |
| 126 | Observation of $\text{C} \rightarrow \text{P}$ Violation in $\text{B}^0 \rightarrow \text{K}^+ \text{K}^-$. Physical Review Letters, 2007, 99, 021603. | 7.8 | 59 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7; \text{TeV}$. <i>Journal of High Energy Physics</i> , 2011, 2011, 1. | 4.7 | 59 |
| 128 | Observation of $B^+ \rightarrow K^0 K^+ \pi^0$ and $B^0 \rightarrow K^0 K^+ \pi^-$. <i>Physical Review Letters</i> , 2006, 97, 171805. | 7.8 | 58 |
| 129 | Measurement of the Branching Fraction and Photon Energy Moments of $B^+ \rightarrow X_s \pi^3$ and $ACP(B^+ \rightarrow X_s \pi^3)$. <i>Physical Review Letters</i> , 2006, 97, 171803. | 7.8 | 58 |
| 130 | Search for anomalous t production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 4.7 | 58 |
| 131 | Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 4.7 | 58 |
| 132 | Studies of jet mass in dijet and $W/Z + \text{jet}$ events. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 4.7 | 58 |
| 133 | Nuclear effects on the transverse momentum spectra of charged particles in $p\text{Pb}$ collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. <i>European Physical Journal C</i> , 2015, 75, 237. | 3.9 | 58 |
| 134 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV . <i>European Physical Journal C</i> , 2018, 78, 701. | 3.9 | 58 |
| 135 | | | |

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|-----|--|-----|-----------|
| 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 | Determining Higgs couplings with a model-independent analysis of $h \rightarrow \tau^+ \tau^-$. Journal of High Energy Physics, 2012, 2012, 1. | 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 $s = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 54 |
| 149 | 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 |
| 150 | Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269. | 3.9 | 53 |
| 151 | Measurement of the hadronic form factor in $D \rightarrow \tau^+ \tau^-$ production. Physical Review D, 2007, 76, . | 4.7 | 52 |
| 152 | Measurement of the $t\bar{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 52 |
| 153 | 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 |
| 154 | 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 |
| 155 | Study of $B \rightarrow \tau^+ \tau^-$ and constraints on the CKM angle $\hat{\Gamma}_\pm$. Physical Review D, 2007, 76, . | 4.7 | 51 |
| 156 | Search for exclusive or semi-exclusive $\tau^+ \tau^-$ 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 |
| 157 | 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 |
| 158 | Determination of the form factors for the decay $B \rightarrow \tau^+ \tau^-$ of the CKM matrix element. Physical Review D, 2008, 77, . | 4.7 | 50 |
| 159 | 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 |
| 160 | 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 |
| 161 | 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 |
| 162 | Study of $B \rightarrow \tau^+ \tau^-$. Physical Review D, 2007, 76, . | 4.7 | 49 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | 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 |
| 164 | Search for leptonic decays of $W \rightarrow e\bar{e}$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 49 |
| 165 | Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1. | 3.9 | 49 |
| 166 | Study of the $D_s^*(2317)$ and $D_s(2460)$ mesons in inclusive e^+e^- production near $\sqrt{s} = 10.6$ GeV. Physical Review D, 2006, 74, . | 4.7 | 48 |
| 167 | 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 |
| 168 | Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 48 |
| 169 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364. | 3.9 | 48 |
| 170 | Observation of the Decay $B \rightarrow \mu^+ \mu^- \nu \bar{\nu}$. Physical Review Letters, 2007, 99, 221801. | 7.8 | 47 |
| 171 | Study of $B \rightarrow \mu^+ \mu^- \nu \bar{\nu}$. Physical Review D, 2008, 77, . | 4.7 | 47 |
| 172 | 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 |
| 173 | Measurements of Branching Fractions, Polarizations, and Direct CP-Violation Asymmetries in $B \rightarrow K^* \mu^+ \mu^-$ and $B \rightarrow K^* \mu^+ \mu^-$ Decays. Physical Review Letters, 2006, 97, 201801. | 7.8 | 46 |
| 174 | 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 |
| 175 | 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 |
| 176 | Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 46 |
| 177 | Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707. | 3.9 | 46 |
| 178 | Measurement of the $B \rightarrow K^* \mu^+ \mu^-$ branching fraction. Physical Review D, 2007, 76, . | 4.7 | 45 |
| 179 | Search for heavy bottom-like quarks in 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 45 |
| 180 | Measurement of the inclusive electron spectrum in charmless semileptonic B decays near the kinematic end point and determination of $ V_{ub} $. Physical Review D, 2006, 73, . | 4.7 | 44 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Search for microscopic black holes in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 44 |
| 182 | Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37. | 4.7 | 44 |
| 183 | Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 151. | 3.9 | 44 |
| 184 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 140. | 3.9 | 44 |
| 185 | Improved Limits on the Lepton-Flavor Violating Decays $\tilde{l}_i \rightarrow \tilde{l}_j \gamma$. Physical Review Letters, 2007, 99, 251803. | 7.8 | 43 |
| 186 | Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2014, 74, 3060. | 3.9 | 43 |
| 187 | Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 43 |
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