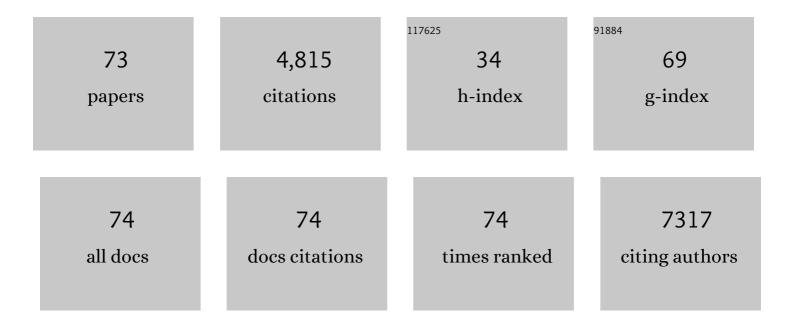
David Fehling

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9345854/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Search for direct pair production of supersymmetric partners to the \$\${uptau }_{}^{}\$\$ lepton in proton–proton collisions at \$\$sqrt{s}=13,ext {TeV} \$\$. European Physical Journal C, 2020, 80, 189. | 3.9 | 22 |
| 2 | Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in \$\$mathrm {PbPb}\$\$ collisions at \$\$sqrt{smash [b]{s_{_{mathrm {NN}}}} = 2.76\$\$ and 5.02\$\$,ext {TeV}\$\$. European Physical Journal C, 2020, 80, 534. | 3.9 | 14 |
| 3 | Evidence for \$\$ext {W}ext {W}\$\$ production from double-parton interactions in proton–proton collisions at \$\$sqrt{s} = 13 ,ext {TeV} \$\$. European Physical Journal C, 2020, 80, 1. | 3.9 | 10 |
| 4 | 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 |
| 5 | A multi-dimensional search for new heavy resonances decaying to boosted \$\$ext{ W }{}\$\$ \$\$ext{ W }{}\$\$ \$\$ext{ W }}}\$\$ \$\$ext{ Z }{}}\$\$, or \$\$ext{ Z }{}}\$\$ \$\$ext{ Z }{}\$\$ boson pairs in the dijet final state at 13Â\$\$ext {Te}ext {V}\$\$. European Physical Journal C, 2020, 80, 237. | 3.9 | 31 |
| 6 | Measurement of single-diffractive dijet production in proton–proton collisions at \$\$sqrt{s} = 8,ext {Te}ext {V} \$\$ with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164. | 3.9 | 5 |
| 7 | Measurement of \$\$hbox {t}{ar{hbox {t}}\$\$ normalised multi-differential cross sections in \$\${ext {p}}{ext {p}} \$\$ collisions at \$\$sqrt{s}=13,{ext {TeV}} \$\$, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical lournal C. 2020. 80. 1. | 3.9 | 33 |
| 8 | Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at \$\$sqrt{s} = 13,ext {TeV} \$\$ s = 13 TeV. European Physical Journal C, 2019, 79, 1. | 3.9 | 9 |
| 9 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at \$\$sqrt{s}=13,ext {Te}ext {V} \$\$. European Physical Journal C, 2019, 79, 564. | 3.9 | 50 |
| 10 | Measurement of the top quark mass in the all-jets final state at \$\$sqrt{s}=13,ext {TeV} \$\$ s = 13 TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313. | 3.9 | 40 |
| 11 | Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in \$\${ext {p}} {ext {p}} \$\$ collisions at \$\$sqrt{s}=13,ext {Te}ext {V} \$\$. European Physical Journal C, 2019, 79, 773. | 3.9 | 8 |
| 12 | Combined measurements of Higgs boson couplings in proton–proton collisions at \$\$sqrt{s}=13,ext {Te}ext {V} \$\$. European Physical Journal C, 2019, 79, 421. | 3.9 | 355 |
| 13 | Measurement of the \$\${mathrm {t}overline{mathrm {t}}}\$ t t Â ⁻ 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 |
| 14 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton–proton collisions at \$\$sqrt{s} = 13,ext {Te}ext {V} \$\$ s = 13 Te. European Physical Journal C, 2019, 79, 364. | 3.9 | 48 |
| 15 | Study of the underlying event in top quark pair production in \$\$mathrm {p}mathrm {p}\$\$ p p collisions at 13 \$\$~ext {Te}ext {V}\$\$ Te. European Physical Journal C, 2019, 79, 123. | 3.9 | 11 |
| 16 | Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at \$\$sqrt{s}=7\$\$ \$\$,ext {TeV}\$\$. European Physical Journal C, 2018, 78, 242. | 3.9 | 10 |
| 17 | Pseudorapidity distributions of charged hadrons in proton-lead collisions at s N N = 5.02 \$\$ sqrt{s_{mathrm{NN}}=5.02 \$\$ and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 8 |
| 18 | Search for resonant and nonresonant Higgs boson pair production in the b b Â ⁻ â,,''νâ,,''ν \$\$ mathrm{b}overline{mathrm{b}}mathit{ell u ell u } \$\$ final state in proton-proton collisions at s = 13 \$\$ sqrt{s}=13 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 36 |

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|----|---|-----|-----------|
| 19 | Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton–proton collisions at \$\$sqrt{s} \$\$ s = 13 \$\$,ext {TeV}\$\$ TeV. European Physical Journal C, 2018, 78, 291. | 3.9 | 27 |
| 20 | Measurements of the \$\$mathrm {p}mathrm {p}ightarrow mathrm{Z}mathrm{Z}\$\$ p p → Z Z production cross section and the \$\$mathrm{Z}ightarrow 4ell \$\$ Z → 4 â,," branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165. | 3.9 | 52 |
| 21 | Measurement of associated Z + charm production in proton–proton collisions at \$\$sqrt{s} = 8\$\$ s = 8 \$\$,ext {TeV}\$\$ TeV. European Physical Journal C, 2018, 78, 287. | 3.9 | 16 |
| 22 | Measurement of the inclusive \$\$ mathrm{t}overline{mathrm{t}} \$\$ cross section in pp collisions at \$\$ sqrt{s}=5.02 \$\$ TeV using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 5 |
| 23 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at s = 13 \$\$ sqrt{s}=13 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 5 |
| 24 | Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at s = 13 \$\$ sqrt{s}=13 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 6 |
| 25 | 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. | 4.7 | 57 |
| 26 | 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 |
| 27 | Measurement of differential cross sections in the kinematic angular variable "•* for inclusive Z boson production in pp collisions at \$\$ sqrt{s}=8 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 4 |
| 28 | Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at \$\$ sqrt{s_{mathrm{NN}}}=5.02 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 12 |
| 29 | Measurement of normalized differential \$\$ mathrm{t}overline{mathrm{t}} \$\$ cross sections in the dilepton channel from pp collisions at \$\$ sqrt{s}=13 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 18 |
| 30 | Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at s = 8 ort{s}=8 reV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 31 | Search for ZZ resonances in the 2â,,"2ν final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 4 |
| 32 | 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. | 4.7 | 43 |
| 33 | Measurement of the top quark mass with lepton+jets final states using \$\$mathrm {p}\$\$\$\$mathrm {p}\$\$\$ {p}\$\$ collisions at \$\$sqrt{s}=13,ext {TeV} \$\$. European Physical Journal C, 2018, 78, 891. | 3.9 | 34 |
| 34 | Measurement of charged particle spectra in minimum-bias events from proton–proton collisions at \$\$sqrt{s}=13,ext {TeV} \$\$ s = 13 TeV. European Physical Journal C, 2018, 78, 697. | 3.9 | 17 |
| 35 | Search for lepton-flavor violating decays of heavy resonances and quantum black holes to eî¼ final states in proton-proton collisions at \$\$ sqrt{s}=13 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 9 |
| 36 | Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at \$\$ sqrt{s}=13 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 11 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at s = 13 \$\$ sqrt{s}=13 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 42 |
| 38 | Jet properties in PbPb and pp collisions at \$\$ sqrt{s_{mathrm{N};mathrm{N}}=5.02 \$\$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 13 |
| 39 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton–proton collisions at \$\$sqrt{s} = 13,ext {TeV} \$\$ s = 13 TeV. European Physical Journal C, 2018, 78, 140. | 3.9 | 44 |
| 40 | Charged-particle nuclear modification factors in PbPb and pPb collisions at s N N = 5.02 \$\$ sqrt{s_{mathrm{N};mathrm{N}}=5.02 \$\$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 103 |
| 41 | Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at s = 8 \$\$ sqrt{s}=8 \$\$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 14 |
| 42 | Searches for invisible decays of the Higgs boson in pp collisions at s \$\$ sqrt{s} \$\$ = 7, 8, and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 95 |
| 43 | 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,ext {TeV} \$\$. European Physical Journal C, 2017, 77, 578. | 3.9 | 57 |
| 44 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at s = 13 \$\$ sqrt{s}=13 \$\$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 62 |
| 45 | Characterisation of irradiated thin silicon sensors for the CMS phase II pixel upgrade. European Physical Journal C, 2017, 77, 1. | 3.9 | 4 |
| 46 | Measurement of the triple-differential dijet cross section in proton-proton collisions at \$\$sqrt{s}=8,ext {TeV} \$\$ s = 8 TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746. | 3.9 | 23 |
| 47 | Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at \$\$ sqrt{s}=8 \$\$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 10 |
| 48 | 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 |
| 49 | Measurements of the associated production of a Z boson and b jets in pp collisions at \$\${sqrt{s}} = 8,ext {TeV} \$\$ s = 8 TeV. European Physical Journal C, 2017, 77, 751. | 3.9 | 30 |
| 50 | 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. | 4.7 | 23 |
| 51 | Search for new physics in same-sign dilepton events in proton–proton collisions at \$\$sqrt{s} = 13,ext {TeV} \$\$ s = 13 TeV. European Physical Journal C, 2016, 76, 439. | 3.9 | 64 |
| 52 | Measurement of dijet azimuthal decorrelation in ppÂcollisions at \$\$sqrt{s}=8,mathrm{TeV} \$\$ s = 8 TeV. European Physical Journal C, 2016, 76, 536. | 3.9 | 16 |
| 53 | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155. | 3.9 | 499 |
| 54 | Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at s = 8 \$\$ sqrt{s}=8 \$\$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 37 |

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|----|--|-----|-----------|
| 55 | 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 \$\$,ext {TeV}\$\$ TeV. European Physical Journal C, 2015, 75, 212. | 3.9 | 541 |
| 56 | Measurements of the \$\$mathrm{Z}\$\$ Z \$\$mathrm{Z}\$\$ Z production cross sections in the \$\$2mathrm{l} 2u \$\$ 2 l 2 ν channel in proton–proton collisions at \$\$sqrt{s} = 7\$\$ s = 7 and \$\$8~. European Physical Journal C, 2015, 75, 511. | 3.9 | 32 |
| 57 | Search for dark matter, extra dimensions, and unparticles in monojet events in proton–proton collisions at \$\$sqrt{s} = 8\$\$ s = 8 \$\$,{mathrm{TeV}},\$\$ TeV. European Physical Journal C, 2015, 75, 235. | 3.9 | 320 |
| 58 | Measurement of pseudorapidity distributions of charged particles in proton–proton collisions at \$\$sqrt{s} = 8\$\$ s = 8 ÂTeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1. | 3.9 | 49 |
| 59 | Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8ÂTeV. European Physical Journal C, 2014, 74, 3036. | 3.9 | 241 |
| 60 | Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at s = 8 \$\$ sqrt{s}=8 \$\$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 17 |
| 61 | 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 |
| 62 | Study of the underlying event at forward rapidity in pp collisions at \$ sqrt{s}=0.9,2.76,;mathrm{and};7;mathrm{TeV} \$. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 50 |
| 63 | 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 |
| 64 | Measurement of the ZZ production cross section and search for anomalous couplings in 2ℓ2ℓ′ final states in pp collisions at \$ sqrt{s}=7 \$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 39 |
| 65 | Measurement of the Z∬³* + b-jet cross section in pp collisions at \$ sqrt {s} = 7 \$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 39 |
| 66 | Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 34 |
| 67 | Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton–proton collisions at \$sqrt{s} = 7 mathrm{TeV}\$. European Physical Journal C, 2012, 72, 1. | 3.9 | 26 |
| 68 | Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at \$ sqrt {s} = 7 \$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 16 |
| 69 | Measurement of \$ {ext{B}}overline {ext{B}} \$ angular correlations based on secondary vertex reconstruction at \$ sqrt {s} = 7,{ext{TeV}} \$. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 32 |
| 70 | Measurement of the inclusive W and Z production cross sections in pp collisions at \$ sqrt {s} = 7 \$ TeV with the CMS experiment. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 158 |
| 71 | Measurement of energy flow at large pseudorapidities in pp collisions at \$ sqrt {s} = 0.{9} \$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 25 |
| 72 | Measurement of energy flow at large pseudorapidities in pp collisions at (sqrt {s} = 0.{9}) and 7 TeV. , 2011, 2011, 1. | | 5 |

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|----|--|-----|-----------|
| 73 | 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 |