

# David d'Enterria

## List of Publications by Year in descending order

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797  
papers

46,500  
citations

2203

99  
h-index

3903

177  
g-index

820  
all docs

820  
docs citations

820  
times ranked

12532  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of dense partonic matter in relativistic nucleus-nucleus collisions at RHIC: Experimental evaluation by the PHENIX Collaboration. Nuclear Physics A, 2005, 757, 184-283. Combined Measurement of the Higgs Boson Mass in	0.6	2,520
2	Collisions at $\sqrt{s} = 7$ and $8$ TeV with the ATLAS and CMS Experiments. Physical Review Letters, 2015, 114, 191803. CMS Physics Technical Design Report, Volume II: Physics Performance. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 995-1579.	2.9	1,062
3	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 TeV. European Physical Journal C, 2015, 75, 212.	1.4	683
4	Determination of jet energy calibration and transverse momentum resolution in CMS. Journal of Instrumentation, 2011, 6, P11002-P11002.	1.4	541
5	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	0.5	508
6	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	1.4	499
7	Energy Loss and Flow of Heavy Quarks in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2007, 98, .	1.6	497
8	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. Journal of Instrumentation, 2012, 7, P10002-P10002.	2.9	489
9	$J/\psi$ Production versus Centrality, Transverse Momentum, and Rapidity in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2007, 98, 232301.	0.5	467
10	The physics of ultraperipheral collisions at the LHC. Physics Reports, 2008, 458, 1-171.	2.9	430
11	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	10.3	425
12	Identification of b-quark jets with the CMS experiment. Journal of Instrumentation, 2013, 8, P04013-P04013.	1.2	424
13	A Large Hadron Electron Collider at CERN Report on the Physics and Design Concepts for Machine and Detector. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 075001.	0.5	418
14	Observation of the rare $B_s^0 \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. Nature, 2015, 522, 68-72.	1.4	406
15	Description and performance of track and primary-vertex reconstruction with the CMS tracker. Journal of Instrumentation, 2014, 9, P10009-P10009.	13.7	390
16	Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1.	0.5	380
17	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	1.4	369
18		1.2	367

#	ARTICLE	IF	CITATIONS
19	Absence of Suppression in Particle Production at Large Transverse Momentum in $\sqrt{s}=200$ GeV Au+Au Collisions. Physical Review Letters, 2003, 91, 072303.	2.9	366
20	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
21	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	1.4	346
22	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	1.4	342
23	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
24	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
25	Enhanced Production of Direct Photons in Au+Au Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2010, 104, 132301.	2.9	319
26	Scaling Properties of Azimuthal Anisotropy in Au+Au and Cu+Cu Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2007, 98, 162301.	2.9	307
27	Measurement of the Branching Fraction and Search for $B \rightarrow \mu^+ \mu^- \gamma$ . Physical Review Letters, 2014, 112, 021801.	2.9	282
28	First look at the physics case of TLEP. Journal of High Energy Physics, 2014, 2014, 1.	1.6	269
29	Dense-Medium Modifications to Jet-Induced Hadron Pair Distributions in Au+Au Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2006, 97, 052301.	2.9	264
30	Nuclear Modification of Electron Spectra and Implications for Heavy Quark Energy Loss in Au+Au Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2006, 96, 032301.	2.9	264
31	Dihadron azimuthal correlations in Au+Au collisions at $\sqrt{s}=200$ GeV. Physical Review C, 2008, 78, 044901.	1.1	256
32	Heavy-ion collisions at the LHC—Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	1.4	255
33	Suppression Pattern of Neutral Pions at High Transverse Momentum in Au+Au Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2006, 97, 052301.	2.9	255
34	Detailed measurement of the $e^+e^- \rightarrow \mu^+\mu^-$ continuum in Au+Au collisions at $\sqrt{s}=200$ GeV. Physical Review C, 2010, 81, 014901.	1.1	254
35	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
36	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.	1.6	230

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37	Observation of Sequential $\chi$ Suppression in PbPb Collisions. Physical Review Letters, 2012, 109, 222301.	2.9	220
38	Centrality Dependence of Direct Photon Production in SNN=200 GeV Au+Au Collisions. Physical Review Letters, 2005, 94, 232301.	2.9	219
39	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	2.9	219
40	Observation of $H \rightarrow \tau\tau$ Production. Physical Review Letters, 2018, 120, 231801.	2.9	209
41	Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy. Physical Review Letters, 2011, 107, 221804.	2.9	208
42	Measurement of High- $p_T$ Single Electrons from Heavy-Flavor Decays in $p+p$ Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2006, 97, 252002.	2.9	200
43	Suppression of non-prompt $J/\psi$ , prompt $J/\psi$ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	200
44	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
45	Heavy quark production in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV and energy loss and flow of heavy quarks in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 107, 221804.	1.1	196
46	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
47	Measurement of neutral mesons in $p+p$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV and scaling properties of hadron production. Physical Review D, 2011, 83, 114011.	1.6	189
48	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	181
49	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

50

#	ARTICLE	IF	CITATIONS
55	Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of Instrumentation, 2015, 10, P08010-P08010. Inclusive cross section and double helicity asymmetry for $\chi_{c0}$ production in $pp$ collisions at $\sqrt{s} = 7$ TeV with the CMS experiment. Journal of High Energy Physics, 2011, 2011, 1.	0.5	168
56	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2018, 120, 221801.	1.6	163
57	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.	2.9	161
58	Study of the inclusive production of charged pions, kaons, and protons in $pp$ collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. European Physical Journal C, 2012, 72, 1.	2.9	160
59	Improved Monte Carlo Glauber predictions at present and future nuclear colliders. Physical Review C, 2018, 97, .	1.6	158
60	Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\hat{T}$ and $b$ -quark multiplicity in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2013, 73, 2568.	1.4	154
61	Measurement of Transverse Single-Spin Asymmetries for Midrapidity Production of Neutral Pions and Charged Hadrons in Polarized $p+p$ Collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2005, 95, 202001.	1.1	150
62	Constraints from the first LHC data on hadronic event generators for ultra-high energy cosmic-ray physics. Astroparticle Physics, 2011, 35, 98-113.	1.4	147
63	Centrality Dependence of $0$ and $\pi$ -Production at Large Transverse Momentum in $NN = 200$ GeV $d+Au$ Collisions. Physical Review Letters, 2007, 98, .	2.9	144
64	Energy calibration and resolution of the CMS electromagnetic calorimeter in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of Instrumentation, 2013, 8, P09009-P09009.	1.9	144
65	Measurements of Elliptic and Triangular Flow in High-Multiplicity $pp$ Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2011, 106, 172302.	0.5	140
66	Strange particle production in $pp$ collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	2.9	140
67	Measurement of Long Range Near Side Two-Particle Angular Correlations in $pp$ Collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	139
68	Measurement of Long Range Near Side Two-Particle Angular Correlations in $pp$ Collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	2.9	139
69	CMS Physics Technical Design Report: Addendum on High Density QCD with Heavy Ions. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 2307-2455.	1.4	136
70	Prompt and non-prompt $J/\psi$ production in $pp$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	135
71	Measurement of Long Range Near Side Two-Particle Angular Correlations in $pp$ Collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.4	130
72	Measurement of Long Range Near Side Two-Particle Angular Correlations in $pp$ Collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.4	130

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73	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	129
74	Search for Dijet Resonances in $7\text{ TeV}$ pp Collisions at CMS. Physical Review Letters, 2010, 105, 211801.	2.9	126
75	Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy. Physical Review Letters, 2012, 108, 261803.	2.9	126
76	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	125
77	Measurement of Direct Photon Production in pp Collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2007, 98, 012002.	2.9	123
78	Observing Light-by-Light Scattering at the Large Hadron Collider. Physical Review Letters, 2013, 111, 080405.	2.9	123
79	Evidence for the 125 GeV Higgs boson decaying to a pair of $\tau$ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	123
80	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
81	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	122
82	$J/\psi$ Production and Nuclear Effects in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2006, 96, 012304.	2.9	121
83	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	1.4	120
84	Proton-nucleus collisions at the LHC: scientific opportunities and requirements. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015010.	1.4	120
85	The performance of the CMS muon detector in proton-proton collisions at $\sqrt{s} = 7$ TeV at the LHC. Journal of Instrumentation, 2013, 8, P11002-P11002.	0.5	119
86	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	118
87	Common Suppression Pattern of $\phi$ and $\omega$ Mesons at High Transverse Momentum in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2006, 96, 202301.	2.9	117
88	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.	1.6	117
89	Evidence for the direct decay of the 125 GeV Higgs boson to fermions. Nature Physics, 2014, 10, 557-560.	6.5	114
90	$J/\psi$ Production in $\sqrt{s} = 7$ TeV pp Collisions at CMS. Physical Review Letters, 2008, 101, 122301.	2.9	109

#	ARTICLE	IF	CITATIONS
91	<p>Observation of the Associated Production of a Single Top Quark and a Charm Quark in <math>pp</math> Collisions at <math>\sqrt{s} = 7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p> <p>Observation of the Associated Production of a Single Top Quark and a Charm Quark in <math>pp</math> Collisions at <math>\sqrt{s} = 7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p>	2.9	108
92	<p>Observation of the Associated Production of a Single Top Quark and a Charm Quark in <math>pp</math> Collisions at <math>\sqrt{s} = 7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p> <p>Observation of the Associated Production of a Single Top Quark and a Charm Quark in <math>pp</math> Collisions at <math>\sqrt{s} = 7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p>	2.9	108
93	<p>Observation of the Associated Production of a Single Top Quark and a Charm Quark in <math>pp</math> Collisions at <math>\sqrt{s} = 7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p> <p>Observation of the Associated Production of a Single Top Quark and a Charm Quark in <math>pp</math> Collisions at <math>\sqrt{s} = 7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p>	1.2	108
94	<p>Observation of the Associated Production of a Single Top Quark and a Charm Quark in <math>pp</math> Collisions at <math>\sqrt{s} = 7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p> <p>Observation of the Associated Production of a Single Top Quark and a Charm Quark in <math>pp</math> Collisions at <math>\sqrt{s} = 7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p>	2.9	108
95	<p>Charged particle multiplicities in <math>pp</math> interactions at <math>\sqrt{s} = 0.9, 2.36,</math> and <math>7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p> <p>Charged particle multiplicities in <math>pp</math> interactions at <math>\sqrt{s} = 0.9, 2.36,</math> and <math>7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p>	1.6	106
96	<p>Charged particle multiplicities in <math>pp</math> interactions at <math>\sqrt{s} = 0.9, 2.36,</math> and <math>7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p> <p>Charged particle multiplicities in <math>pp</math> interactions at <math>\sqrt{s} = 0.9, 2.36,</math> and <math>7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p>	2.9	104
97	<p>Charged particle multiplicities in <math>pp</math> interactions at <math>\sqrt{s} = 0.9, 2.36,</math> and <math>7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p> <p>Charged particle multiplicities in <math>pp</math> interactions at <math>\sqrt{s} = 0.9, 2.36,</math> and <math>7</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p>	1.6	103
98	<p>Missing transverse energy performance of the CMS detector. Journal of Instrumentation, 2011, 6, P09001-P09001.</p>	0.5	102
99	<p>The FP420 R&amp;D project: Higgs and New Physics with forward protons at the LHC. Journal of Instrumentation, 2009, 4, T10001-T10001.</p>	0.5	101
100	<p>Measurements of properties of the Higgs boson decaying into the four-lepton final state in <math>pp</math> collisions at <math>\sqrt{s} = 13</math> TeV. Journal of High Energy Physics, 2017, 2017, 1.</p>	1.6	101
101	<p>Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at <math>\sqrt{s} = 8</math> TeV. Journal of High Energy Physics, 2014, 2014, 1.</p>	1.5	100
102	<p>Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at <math>\sqrt{s} = 8</math> TeV. Journal of High Energy Physics, 2014, 2014, 1.</p>	1.6	100
103	<p>Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at <math>\sqrt{s_{NN}} = 2.76</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p>	1.6	99
104	<p>LHC forward physics. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 110201.</p>	1.4	99
105	<p>Search for new phenomena with the <math>M_{T2}</math> variable in the all-hadronic final state produced in proton-proton collisions at <math>\sqrt{s} = 13</math> TeV. European Physical Journal C, 2017, 77, 710.</p>	1.4	98
106	<p>Search for new phenomena with the <math>M_{T2}</math> variable in the all-hadronic final state produced in proton-proton collisions at <math>\sqrt{s} = 13</math> TeV. European Physical Journal C, 2017, 77, 710.</p> <p>Cold nuclear matter effects on charged particle production as constrained by deuteron-gold measurements at <math>\sqrt{s_{NN}} = 2.76</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p>	1.1	97
107	<p>Measurement of the underlying event activity at the LHC with <math>\sqrt{s} = 7</math> TeV and comparison with <math>\sqrt{s} = 0.9</math> TeV. Journal of High Energy Physics, 2011, 2011, 1.</p>	1.6	97
108	<p>Search for supersymmetry in hadronic final states using <math>M_{T2}</math> in <math>pp</math> collisions at <math>\sqrt{s} = 7</math> TeV. Journal of High Energy Physics, 2012, 2012, 1.</p>	1.6	95

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109	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8, \text{ and } 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	95
110	Quantitative constraints on the transport properties of hot partonic matter from semi-inclusive single high transverse momentum pion suppression in Au+Au collisions at $\sqrt{s_{NN}} = 200 \text{ GeV}$ . Physical Review C, 2008, 77, .	1.1	93
111	Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8 \text{ TeV}$ . Journal of Instrumentation, 2015, 10, P02006-P02006.	0.5	93
112	Quantitative constraints on the gluon distribution function in the proton from collider isolated-photon data. Nuclear Physics B, 2012, 860, 311-338.	0.9	92
113	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.	1.6	92
114	Performance of $\tau, q$ -lepton reconstruction and identification in CMS. Journal of Instrumentation, 2012, 7, P01001-P01001.	0.5	91
115	Nuclear effects on hadron production in Au+Au collisions at $\sqrt{s_{NN}} = 200 \text{ GeV}$ revealed by comparison with p+pp data. Physical Review C, 2006, 74, .	1.1	90
116	Searches for new physics using the $\tau^+\tau^-$ invariant mass distribution in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Physical Review Letters, 2013, 111, 211804.	2.9	90
117	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 147.	1.4	88
118	Detailed study of high- $p_T$ pion suppression and azimuthal anisotropy in Au+Au collisions at $\sqrt{s_{NN}} = 200 \text{ GeV}$ . Physical Review C, 2008, 77, .	1.1	87
119	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	2.9	87
120	Systematic studies of elliptic flow measurements in Au+Au collisions at $\sqrt{s_{NN}} = 200 \text{ GeV}$ . Physical Review C, 2008, 77, .	1.6	86
121	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.1	85
122	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	85
123	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.	6.0	85
124	Study of double parton scattering using $W + 2$ -jet events in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
125	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
126	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ . European Physical Journal C, 2014, 74, 2847.	1.4	85



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127	Reconstruction and identification of $\tilde{l},$ lepton decays to hadrons and $\hat{1}/2 <sub>\tilde{l},</sub>$ at CMS. Journal of Instrumentation, 2016, 11, P01019-P01019.	0.5	85
128	Performance of the CMS Level-1 trigger in proton-proton collisions at $\hat{s} <i>s</i> = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	0.5	84
129	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.	1.6	83
130	Measurement of the differential cross section and charge asymmetry for inclusive $\mathit{p} \rightarrow \mathit{W}^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	1.4	83
131	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s} = 5.02$ TeV collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	1.4	83
132	High transverse momentum $\hat{1}$ -meson production in p+p, d+Au, and Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2007, 75, .	1.1	82
133	Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	1.4	82
134	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
135	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	81
136	$J/\psi$ and $\tilde{\chi}(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	81
137	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
138	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
139	Study of Z-Boson Production in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.	2.9	80
140	Jet properties from dihadron correlations in p+p collisions at $\sqrt{s} = 200$ GeV. Physical Review D, 2006, 74, .	1.6	78
141	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
142	Transverse energy production and charged-particle multiplicity at midrapidity in various systems from 200 GeV. Physical Review C, 2016, 93, .	1.1	78
143	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
144	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

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145	Search for Top-Quark Partners with Charge $\frac{2}{3}$ in the Same-Side Dilepton Final State. Physical Review Letters, 2014, 112, 171801.	2.9	76
146	Collisions at $\sqrt{s} = 200$ GeV and the contribution from photon bremsstrahlung	1.5	75
147	$Au + Au$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV	1.1	75
148	Study of exclusive two-photon production of $W+W\bar{a}'$ 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
149	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
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158	Ground and excited state charmonium production in $pp$ collisions at $\sqrt{s} = 200$ GeV	1.6	70
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350	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
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675	Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	8
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