

# David d'Enterria

## List of Publications by Year in descending order

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Version: 2024-02-01

797  
papers

46,500  
citations

2215

99  
h-index

3915

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	1.5	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.	7.8	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.	3.6	683
4	Determination of jet energy calibration and transverse momentum resolution in CMS. Journal of Instrumentation, 2011, 6, P11002-P11002.	3.9	541
5	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.2	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.	3.9	499
7	Energy Loss and Flow of Heavy Quarks in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2007, 98, .	4.7	497
8	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. Journal of Instrumentation, 2012, 7, P10002-P10002.	7.8	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.	1.2	467
10	The physics of ultraperipheral collisions at the LHC. Physics Reports, 2008, 458, 1-171.	7.8	430
11	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	25.6	425
12	Identification of b-quark jets with the CMS experiment. Journal of Instrumentation, 2013, 8, P04013-P04013.	2.6	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.	1.2	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.	3.6	406
15	Description and performance of track and primary-vertex reconstruction with the CMS tracker. Journal of Instrumentation, 2014, 9, P10009-P10009.	27.8	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.	1.2	380
17	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	3.9	369
18		2.6	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.	7.8	366
20	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421.	3.9	355
21	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
22	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	3.9	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.	4.7	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.	3.9	320
25	Enhanced Production of Direct Photons in Au+Au Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2010, 104, 132301.	7.8	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.	7.8	307
27	Measurement of the Branching Fraction and Search for $B \rightarrow \tau^+ \nu_\tau$ in Au+Au Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2006, 96, 032301.	7.8	282
28	First look at the physics case of TLEP. Journal of High Energy Physics, 2014, 2014, 1.	4.7	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.	7.8	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.	7.8	264
31	Dihadron azimuthal correlations in Au+Au collisions at $\sqrt{s}=200$ GeV. Physical Review C, 2008, 78, 044901.	2.9	256
32	Heavy-ion collisions at the LHC—Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	3.6	255
33	Suppression Pattern of Neutral Pions at High Transverse Momentum in Au+Au Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2006, 96, 032301.	7.8	255
34	Detailed measurement of the $B \rightarrow \tau^+ \nu_\tau$ branching fraction and search for $B \rightarrow \tau^+ \nu_\tau$ in Au+Au collisions at $\sqrt{s}=200$ GeV. Physical Review C, 2008, 78, 044901.	2.9	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.	3.9	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.	4.7	230

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37	Observation of Sequential $\chi$ Suppression in PbPb Collisions. Physical Review Letters, 2012, 109, 222301.	7.8	220
38	Centrality Dependence of Direct Photon Production in SNN=200 GeV Au+Au Collisions. Physical Review Letters, 2005, 94, 232301.	7.8	219
39	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	7.8	219
40	Observation of $H \rightarrow \tau\tau$ Production. Physical Review Letters, 2018, 120, 231801.	7.8	209
41	Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy. Physical Review Letters, 2011, 107, 221804.	7.8	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.	7.8	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.	4.7	200
44	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
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.	2.9	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.	3.9	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.	4.7	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.	3.9	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.	3.9	179

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#	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 $\sqrt{s} = 8$ TeV. Physical Review Letters, 2007, 98, 232002.	1.2	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.	4.7	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.	7.8	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.	7.8	160
59	Improved Monte Carlo Glauber predictions at present and future nuclear colliders. Physical Review C, 2018, 97, .	4.7	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.	3.9	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.	2.9	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.	3.9	147
63	Centrality Dependence of $\phi$ Production at Large Transverse Momentum in $\sqrt{s} = 200$ GeV Au+Au Collisions. Physical Review Letters, 2007, 98, .	7.8	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.	4.3	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.	7.8	140
66	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	139
67	Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s} = 0.9$ and 7 TeV. Physical Review Letters, 2016, 116, 172302.	7.8	139
68	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	7.8	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.	3.6	136
70	Prompt and non-prompt $J/\psi$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	3.9	135
71	Measurement of the inclusive production cross sections of $\phi$ and $\chi_{c0}$ in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	130
72	Feebly-interacting particles: FIPs 2020 workshop report. European Physical Journal C, 2021, 81, 1.	3.9	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.	3.9	129
74	Search for Dijet Resonances in $7\text{ TeV}$ pp Collisions at CMS. Physical Review Letters, 2010, 105, 211801.	7.8	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.	7.8	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.	3.9	125
77	Measurement of Direct Photon Production in pp Collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2007, 98, 012002.	7.8	123
78	Observing Light-by-Light Scattering at the Large Hadron Collider. Physical Review Letters, 2013, 111, 080405.	7.8	123
79	Evidence for the 125 GeV Higgs boson decaying to a pair of $\tau$ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	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.	3.9	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.	4.7	122
82	$J/\psi$ Production and Nuclear Effects in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2006, 96, 012304.	7.8	121
83	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	3.9	120
84	Proton-nucleus collisions at the LHC: scientific opportunities and requirements. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015010.	3.6	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.	1.2	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.	4.7	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.	7.8	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.	4.7	117
89	Evidence for the direct decay of the 125 GeV Higgs boson to fermions. Nature Physics, 2014, 10, 557-560.	16.7	114
90	$J/\psi$ Production in $\sqrt{s} = 7$ TeV pp Collisions at CMS. Physical Review Letters, 2008, 101, 122301.	7.8	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. <i>Physical Review Letters</i>, 2017, 118, 122301.</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. <i>Physical Review Letters</i>, 2017, 118, 122301.</p>	7.8	108
92	<p>Observation of Charge-Dependent Azimuthal Correlations in <math>pp</math> Collisions at <math>\sqrt{s} = 7</math> TeV. <i>Physical Review Letters</i>, 2017, 118, 122301.</p> <p>Observation of Charge-Dependent Azimuthal Correlations in <math>pp</math> Collisions at <math>\sqrt{s} = 7</math> TeV. <i>Physical Review Letters</i>, 2017, 118, 122301.</p>	7.8	108
93	<p>HE-LHC: The High-Energy Large Hadron Collider. <i>European Physical Journal: Special Topics</i>, 2019, 228, 1109-1382.</p>	2.6	108
94	<p>Observation of Charge-Dependent Azimuthal Correlations in <math>pp</math> Collisions and Its Implication for the Search for the Chiral Magnetic Effect. <i>Physical Review Letters</i>, 2017, 118, 122301.</p>	7.8	104
95	<p>Charged particle multiplicities in <math>pp</math> interactions at <math>\sqrt{s} = 0.9, 2.36, \text{ and } 7</math> TeV. <i>Journal of High Energy Physics</i>, 2011, 2011, 1.</p>	4.7	106
96	<p>Cold Nuclear Matter Effects on Charged Particle Yields as a Function of Rapidity and Nuclear Geometry in <math>pp</math> Collisions at <math>\sqrt{s} = 7</math> TeV. <i>Physical Review Letters</i>, 2017, 118, 122301.</p>	7.8	104
97	<p>Charged-particle nuclear modification factors in PbPb and pPb collisions at <math>\sqrt{s_{NN}} = 5.02</math> TeV. <i>Journal of High Energy Physics</i>, 2017, 2017, 1.</p>	4.7	103
98	<p>Missing transverse energy performance of the CMS detector. <i>Journal of Instrumentation</i>, 2011, 6, P09001-P09001.</p>	1.2	102
99	<p>The FP420 R&amp;D project: Higgs and New Physics with forward protons at the LHC. <i>Journal of Instrumentation</i>, 2009, 4, T10001-T10001.</p>	1.2	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. <i>Journal of High Energy Physics</i>, 2017, 2017, 1.</p>	4.7	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. <i>Journal of High Energy Physics</i>, 2014, 2014, 1.</p>	4.1	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. <i>Journal of High Energy Physics</i>, 2014, 2014, 1.</p>	4.7	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. <i>Journal of High Energy Physics</i>, 2011, 2011, 1.</p>	4.7	99
104	<p>LHC forward physics. <i>Journal of Physics G: Nuclear and Particle Physics</i>, 2016, 43, 110201.</p>	3.6	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. <i>European Physical Journal C</i>, 2017, 77, 710.</p>	3.9	98
106	<p>Cold nuclear matter effects on charged particle production as constrained by deuteron-gold measurements at <math>\sqrt{s} = 7.75</math> TeV. <i>Physical Review Letters</i>, 2017, 118, 122301.</p>	2.9	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. <i>Journal of High Energy Physics</i>, 2011, 2011, 1.</p>	4.7	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. <i>Journal of High Energy Physics</i>, 2012, 2012, 1.</p>	4.7	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.	4.7	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, .	2.9	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.	1.2	93
112	Quantitative constraints on the gluon distribution function in the proton from collider isolated-photon data. Nuclear Physics B, 2012, 860, 311-338.	2.5	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.	4.7	92
114	Performance of $\tau, q$ -lepton reconstruction and identification in CMS. Journal of Instrumentation, 2012, 7, P01001-P01001.	1.2	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, .	2.9	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.	7.8	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.	3.9	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, .	2.9	87
119	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.	7.8	87
120	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.	4.7	86
121	Systematic studies of elliptic flow measurements in Au+Au collisions at $\sqrt{s_{NN}} = 200 \text{ GeV}$ . Physical Review C, 2008, 77, .	2.9	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.	4.7	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.	12.6	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.	4.7	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.	4.7	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.	3.9	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.	1.2	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.	1.2	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.	4.7	83
130	Measurement of the differential cross section and charge asymmetry for inclusive $\mathit{p}\mathit{p}\mathit{i}\mathit{g}\mathit{h}\mathit{t}\mathit{a}\mathit{r}\mathit{r}\mathit{o}\mathit{w}\mathit{m}\mathit{a}\mathit{t}\mathit{h}\mathit{W}\mathit{A}\mathit{\pm}\mathit{X}$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	3.9	83
131	Measurement of prompt and nonprompt charmonium suppression in $\mathit{P}\mathit{b}\mathit{P}\mathit{b}$ collisions at 5.02 TeV. European Physical Journal C, 2018, 78, 509.	3.9	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, .	2.9	82
133	Suppression and azimuthal anisotropy of prompt and nonprompt $\mathit{J}/\mathit{\psi}$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	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.	4.7	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.	4.7	81
136	$\mathit{J}/\mathit{\psi}$ and $\mathit{\Upsilon}(2\mathit{S})$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	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.	4.7	81
138	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
139	Study of Z-Boson Production in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.	7.8	80
140	Jet properties from dihadron correlations in p+pcollisions at $\sqrt{s}=200$ GeV. Physical Review D, 2006, 74, .	4.7	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.	4.7	78
142	Transverse energy production and charged-particle multiplicity at midrapidity in various systems from 200 GeV. Physical Review C, 2016, 93, .	2.9	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.	3.9	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.	4.7	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.	7.8	76
146	Collisions at $\sqrt{s} = 200$ GeV and the contribution from photon bremsstrahlung. Physical Review Letters, 2018, 120, 202301.	4.1	75
147	Measurement of the $\sigma(\text{pp} \rightarrow \text{Au} + \text{W} + \text{W}^-)$ cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	2.9	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.	4.7	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.	3.9	75
150	Measurement of the $\sigma(\text{pp} \rightarrow W^+W^-)$ 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
151	Nuclear Modification Factors for Hadrons at Forward and Backward Rapidities in Deuteron-Gold Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2005, 94, 082302.	7.8	73
152	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
153	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
154	Search for additional neutral MSSM Higgs bosons in the $\bar{b}, \bar{b}$ , final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	73
155	Gluon-Spin Contribution to the Proton Spin from the Double-Helicity Asymmetry in Inclusive $\bar{b}$ Production in Polarized p+p Collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2009, 103, 012003.	7.8	72
156	Onset of $\bar{b}$ Suppression Studied in Cu+Cu Collisions at $\sqrt{s_{NN}} = 22.4, 62.4,$ and 200 GeV. Physical Review Letters, 2008, 101, 162301.	7.8	70
157	Correlations in $\text{pp} \rightarrow \text{W} + \text{W}^-$ Collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2018, 120, 202301.	7.8	70
158	Ground and excited state charmonium production in $\text{pp} \rightarrow \text{W} + \text{W}^-$ collisions at $\sqrt{s} = 200$ GeV. Physical Review D, 2012, 85, .	4.7	70
159	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
160	Measurement of the Splitting Function in $\text{pp} \rightarrow \text{W} + \text{W}^-$ and Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2018, 120, 202301.	7.8	70
161	Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 120, 202301.	7.8	70
162	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

#	ARTICLE	IF	CITATIONS
163	Deuteron and Antideuteron Production in Au+Au Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2005, 94, 122302.	7.8	69
164	Measurement of the $\overline{\chi\chi}$ 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
165	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
166	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
167	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
168	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
169	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
170	Measurement of the $\overline{\chi\chi}$ 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
171	Measurement of the $\overline{\chi\chi}$ 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.	2.9	67
172	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.	4.7	66
173	Estimates of hadron azimuthal anisotropy from multiparton interactions in proton-proton collisions at $\sqrt{s}=14$ TeV. European Physical Journal C, 2010, 66, 173-185.	3.9	65
174	Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	65
175	Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2012, 108, 252002.	7.8	65
176	Observation of a New $\tilde{\chi}^0\tilde{\chi}^0$ Baryon. Physical Review Letters, 2012, 108, 252002.	7.8	65
177	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 3129.	3.9	65
178	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2283.	3.9	64
179	Search for a New $\tilde{\chi}^0\tilde{\chi}^0$ Baryon in pp Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2012, 108, 252002.	7.8	64
180	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.	3.9	64

#	ARTICLE	IF	CITATIONS
181	hadron multiplicity fluctuations in Au+Au collisions at midrapidity and forward-rapidity production of hadrons in polarized collisions at 62.4 GeV. Physical Review D, 2014, 90, .	2.9	63
182	Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider. Physical Review Letters, 2012, 108, 111801.	4.7	63
183	Measurement of transverse-single-spin asymmetries for midrapidity and forward-rapidity production of hadrons in polarized collisions at 62.4 GeV. Physical Review D, 2014, 90, .	7.8	63
184	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
185	Probing the QCD equation of state with thermal photons in nucleus-nucleus collisions at RHIC. European Physical Journal C, 2006, 46, 451-464.	4.7	63
186	Transverse momentum and centrality dependence of dihadron correlations in Au+Au collisions at midrapidity and forward-rapidity production of hadrons in polarized collisions at 62.4 GeV. Physical Review D, 2014, 90, .	3.9	62
187	Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2012, 109, 152303.	2.9	62
188	Measurement of the $W+W\bar{a}$ cross section in pp collisions at $\sqrt{s}=7$ TeV and limits on anomalous $WW\bar{W}$ and $WWZ$ couplings. European Physical Journal C, 2013, 73, 1.	7.8	62
189	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 13.	3.9	62
190	Measurement of the Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	7.8	62
191	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.	4.7	62
192	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
193	Observation of Two Excited States and Measurement of the stretchy= "false"> ( $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2012, 109, 152303.	7.8	62
194	Transition in Yield and Azimuthal Shape Modification in Dihadron Correlations in Relativistic Heavy Ion Collisions. Physical Review Letters, 2010, 104, 252301.	7.8	61
195	Measurement of the Production Cross Section in Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2012, 109, 152301.	7.8	61
196	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	61
197	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	61
198	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	7.8	61

#	ARTICLE	IF	CITATIONS
199	Measurement of single electron event anisotropy in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2005, 72, .	2.9	60
200	Photon-hadron jet correlations in $pp$ collisions at $\sqrt{s}=7$ TeV. Physical Review C, 2005, 72, .	2.9	60
201	Measurement of the ratio of the inclusive 5-jet cross section to the inclusive 2-jet cross section in $pp$ collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1.	3.9	60
202	Performance and operation of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03010-T03010.	1.2	59
203	Alignment of the CMS silicon tracker during commissioning with cosmic rays. Journal of Instrumentation, 2010, 5, T03009-T03009.	1.2	59
204	Measurement of the lepton charge asymmetry in inclusive W production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	59
205	Jet structure of baryon excess in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2005, 71, .	2.9	58
206	Search for anomalous $t$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
207	Jet production rates in association with W and Z bosons in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
208	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	4.7	58
209	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2015, 75, 237.	3.9	58
210	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 701.	3.9	58
211	Saturation of Azimuthal Anisotropy in Au+Au Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2005, 94, 232302.	7.8	57
212	Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. Journal of Instrumentation, 2010, 5, T03014-T03014.	1.2	57
213			



#	ARTICLE	IF	CITATIONS
217	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.	4.7	57
218	System Size and Energy Dependence of Jet-Induced Hadron Pair Correlation Shapes in Cu+Cu and Au+Au Collisions at $\sqrt{s_{NN}}=200$ and 62.4 GeV. Physical Review Letters, 2007, 98, 232302.	7.8	56
219	Charged particle transverse momentum spectra in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	56
220	Exclusive $\hat{t}\hat{t}^* + \hat{t}\hat{t}^*$ production in proton-proton collisions at $\sqrt{s} = \{7\}$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	56
221	Event activity dependence of $\Upsilon$ ( $nS$ ) production in $\sqrt{s_{NN}} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	56
222	Indications of suppressed high $p_T$ production in $\sqrt{s_{NN}} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.1	55
223	Measurement of masses in the $\overline{t}t$ system by kinematic endpoints in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2494.	3.9	55
224	Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	55
225	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
226	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
227	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.	4.7	54
228	Search for charged Higgs bosons in the $H \rightarrow \tau^+ \tau^-$ decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
229	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.	4.7	54
230	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	54
231	Jet structure from dihadron correlations in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2006, 73, .	2.9	53
232	Measurement of the $\chi_{c0}$ 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
233	Measurement of prompt and nonprompt $J/\psi$ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	3.9	53
234	Double Helicity Asymmetry in Inclusive Midrapidity Production for Polarized p+p Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2004, 93, 202002.	7.8	52



#	ARTICLE	IF	CITATIONS
235	Performance of CMS muon reconstruction in cosmic-ray events. Journal of Instrumentation, 2010, 5, T03022-T03022.	1.2	52
236	Measurement of the $\sigma(\overline{t}t)$ 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
237	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
238	Measurements of the $\sigma(\text{pp} \rightarrow \text{ZZ})$ production cross section and the $\text{BR}(\text{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
239	High- $p_T$ production with respect to the reaction plane in Au+Au collisions at $\sqrt{NN}=200$ GeV. Physical Review C, 2009, 80, .	2.9	51
240	Search for exclusive or semi-exclusive $\hat{\tau}\hat{\tau}^3$ 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
241	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
242	Confronting current NLO parton fragmentation functions with inclusive charged-particle spectra at hadron colliders. Nuclear Physics B, 2014, 883, 615-628.	2.5	51
243	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
244	Search for $B_s^0 \rightarrow \tau^+ \tau^-$ and $B^0 \rightarrow \tau^+ \tau^-$ Decays in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 1501802.	1.1	50
245	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
246	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 241802.	7.8	50
247	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
248	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
249	Search for leptonic decays of $W^{\pm 2}$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	49
250	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
251	Measurement of Identified and Inclusive Photon Second-Harmonic Parameter and Implications for Direct Photon Production in $\sqrt{NN}=200$ GeV Au+Au. Physical Review Letters, 2006, 96, 032302.	7.8	48
252	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

#	ARTICLE	IF	CITATIONS
253	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
254	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
255	Search for Supersymmetry in pp Collisions at $\sqrt{s} = 7$ TeV in Events with Two Photons and Missing Transverse Energy. Physical Review Letters, 2011, 106, 211802.	7.8	47
256	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
257	Search for the production of a top quark and a Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	7.8	47
258	Search for the production of a top quark and a Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	7.8	47
259	Single Electrons from Heavy-Flavor Decays in p-p Collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2006, 96, 032001.	7.8	46
260	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
261	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
262	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	46
263	Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707.	3.9	46
264	Search for heavy bottom-like quarks in $4.9 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	45
265	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.	7.8	45
266	Search for microscopic black holes in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	44
267	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
268	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
269	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, 707.	3.9	44
270	Cross-section and double helicity asymmetry for mesons and their comparison to $\tau$ production in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707.	4.7	43

#	ARTICLE	IF	CITATIONS
271	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
272	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
273	Search for dark photons from neutral meson decays. <a href="#">arXiv:1308.5317 [hep-ex]</a> $\text{AuAu}$ collisions at $\sqrt{s} = 2.76$ TeV. Nuclear Physics A, 2015, 977, 1-12.	2.9	43
274	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 325.	3.9	43
275	Predictions for cold nuclear matter effects in p+Pb collisions at $\sqrt{s} = 2.76$ TeV. Nuclear Physics A, 2018, 972, 18-85.	1.5	43
276	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
277	Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	42
278	Evidence for exclusive $t\bar{t}W + W\bar{\nu}_\tau$ 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.	4.7	42
279	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.	4.7	42
280	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.	4.7	42
281	Novel tools and observables for jet physics in heavy-ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 065102.	3.6	42
282	Sensitivity of isolated photon production at TeV hadron colliders to the gluon distribution in the proton. Physical Review D, 2010, 82, .	4.7	41
283	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	41
284	Measurement of the $t\bar{t}\gamma$ production cross section in the $e^+e^-$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
285	Measurement of the $t\bar{t}\gamma$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128.	3.9	41
286	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.	4.7	41
287	Measurement of properties of $B_{(s)}^0 \rightarrow \tau^+ \tau^- \nu_\tau \nu_\tau$ decays and search for $B_{(s)}^0 \rightarrow \tau^+ \tau^- \nu_\tau \nu_\tau$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
288	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.	4.7	41

#	ARTICLE	IF	CITATIONS
289	Prospects for quarkonium studies at the high-luminosity LHC. Progress in Particle and Nuclear Physics, 2022, 122, 103906.	14.4	41
290	Search for same-sign top-quark pair production at $\sqrt{s} = 7$ TeV and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	40
291	Collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	7.8	40
292	Measurement of the $\overline{t}t$ production cross section using events in the $e\mu$ final state in pp collisions at $\sqrt{s}=13$ , ext {TeV} $s = 13$ TeV. European Physical Journal C, 2017, 77, 172.	3.9	40
293	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	3.9	40
294	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
295	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.	4.7	40
296	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ , ext {TeV} ext {V} $s = 13$ TeV. European Physical Journal C, 2021, 81, 378.	3.9	40
297	Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	39
298	Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
299	Measurement of the $Z\gamma$ b-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
300	Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
301	Measurement of the ZZ production cross section and search for anomalous couplings in $2\gamma, 2\gamma, \gamma\gamma$ final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
302	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $s = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	39
303	Measurement of differential cross sections for $Z$ boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} $s = 13$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
304	Search for heavy stable charged particles in pp collisions at $\sqrt{s} = 7$ ; ext {TeV} $s = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	38
305	Measurement of the top-quark mass in $t$ events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	38
306	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s}= 13$ , ext {TeV} $s = 13$ TeV. European Physical Journal C, 2017, 77, 845.	3.9	38

#	ARTICLE	IF	CITATIONS
307	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636.	3.9	38
308	Suppression of Excited $\rho^0$ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 120, 142301.	7.8	38
309	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $W$ , leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
310	Midrapidity direct-photon production in p+pcollisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review D, 2005, 71, .	4.7	37
311	Source Breakup Dynamics in Au+Au Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2008, 100, 232301.	7.8	37
312	Commissioning of the CMS experiment and the cosmic run at four tesla. Journal of Instrumentation, 2010, 5, T03001-T03001.	1.2	37
313	Measurement of the $\tau^+\tau^-$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV using the kinematic properties of events with leptons and jets. European Physical Journal C, 2011, .	3.9	37
314	Production of $\rho^0$ mesons in p+pcollisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2008, 100, 232301.	2.9	37
315	Direct photon production in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2013, 87, .	2.9	37
316	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	37
317	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.	3.9	37
318	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.	4.7	37
319	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.	4.7	37
320	Evidence for a Long-Range Component in the Pion Emission Source in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2007, 98, 132301.	7.8	36
321	Quark-gluon matter. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, S53-S81.	3.6	36
322	Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays. Journal of Instrumentation, 2010, 5, T03021-T03021.	1.2	36
323	Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	36
324	Direct photon production in p+pcollisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2008, 100, 232301.	4.7	36



#	ARTICLE	IF	CITATIONS
325	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\hat{A}^0$ final state in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	36
326	Search for Narrow Resonances in the $b\bar{b}\hat{A}^0$ -Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s} = 7 \text{ TeV}$ . Physical Review Letters, 2018, 120, 201801.	7.8	36
327	Charged Kaon Interferometric Probes of Space-Time Evolution in Au+Au Collisions at $\sqrt{s_{NN}} = 200 \text{ GeV}$ . Physical Review Letters, 2009, 103, 142301.	7.8	35
328	Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2014, 74, 2758.	3.9	35
329	Search for heavy Majorana neutrinos in $e^+e^-$ jets and $e^+\hat{A}^0$ jets events in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	4.7	35
330	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s} = 7 \text{ TeV}$ . Physical Review Letters, 2017, 119, 111802.	7.8	35
331	Search for anomalous $Wtb$ couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $s = 7 \sqrt{s} = 7 \text{ TeV}$ and $8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
332	Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	35
333	Measurement of exclusive $\Upsilon$ photoproduction from protons in $p\bar{p}$ collisions at $\sqrt{s} = 5.02 \text{ TeV}$ . European Physical Journal C, 2019, 79, 277.	3.9	35
334	Measurement of associated production of a $W$ boson and a charm quark in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2019, 79, 269.	3.9	35
335	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2021, 81, 488.	3.9	35
336	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
337	Search for microscopic black holes in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	34
338	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or 3 b-quark jets in 7 TeV pp collisions using the variable $\cancel{E}_T$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	34
339	Searches for supersymmetry using the $M_{T2}$ variable in hadronic events produced in pp collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	34
340	Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2016, 76, 379.	2.9	34
341	Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2016, 76, 379.	3.9	34
342	Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at $8 \text{ TeV}$ and ratio of 8 to $7 \text{ TeV}$ cross sections. European Physical Journal C, 2017, 77, 15.	3.9	34



#	ARTICLE	IF	CITATIONS
343	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two $\bar{l},$ leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
344	Measurement of the top quark mass with lepton+jets final states using $\mathcal{P}^{\text{obs}}$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.	3.9	34
345	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.	4.7	34
346	Search for single production of vector-like quarks decaying to a top quark and a $W$ boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 90.	3.9	34
347	Measurement of the dependence of meson suppression in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2019, 79, 129.	2.9	33
348	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	33
349	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	33
350	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	3.9	33
351	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two $\bar{l},$ leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	33
352	Measurement of exclusive $\rho^0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 702.	3.9	33
353	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.	3.9	33
354	Search for top squark pair production using dilepton final states in $pp$ collision data collected at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3.	3.9	33
355	Measurement of normalised multi-differential cross sections in $pp$ collisions at $\sqrt{s}=13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	3.9	33
356	Measurement of $\overline{B}B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
357	Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
358	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	4.7	32
359	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2674.	3.9	32
360	Alignment of the CMS tracker with LHC and cosmic ray data. Journal of Instrumentation, 2014, 9, P06009-P06009.	1.2	32

#	ARTICLE	IF	CITATIONS
361	Measurements of the $Z Z$ production cross sections in the $2\ell 2\ell$ channel in proton-proton collisions at $\sqrt{s} = 7$ and $8$ TeV. European Physical Journal C, 2015, 75, 511.	3.9	32
362	Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
363	Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 121, 242301.	7.8	32
364	Measurement of single top quarks at forward rapidity in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2007, 76, .	4.7	31
365	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	31
366	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	31
367	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 66.	3.9	31
368	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	31
369	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.	4.7	31
370	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.	4.7	31
371	A multi-dimensional search for new heavy resonances decaying to boosted $W W$ , $W Z$ , or $Z Z$ boson pairs in the dijet final state at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 237.	3.9	31
372	Measurement of transverse single-spin asymmetries for $J/\psi$ production in polarized p+p collisions at $\sqrt{s} = 200$ GeV. Physical Review D, 2010, 82, .	4.7	30
373	Measurement of Bose-Einstein correlations in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	30
374	Nuclear-modification factor for open-heavy-flavor production at forward rapidity in Cu+Cu collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2012, 86, .	2.9	30
375	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	30
376	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow 4\ell$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	30
377	Sensitivity of the LHC isolated $\tau$ + jet data to the parton distribution functions of the proton. Europhysics Letters, 2013, 101, 61002.	2.0	30
378	Measurement of the W-boson helicity in top-quark decays from $W$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	30

#	ARTICLE	IF	CITATIONS
379	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
380	Search for massive WH resonances decaying into the $u \overline{b}$ $\hat{b} \hat{b}^{-1/2}$ final state at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 237.	3.9	30
381	Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751.	3.9	30
382	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.	7.8	30
383	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	29
384	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	29
385	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2016, 76, 372.	3.9	29
386	Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	29
387	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 $\alpha_T$ variable. European Physical Journal C, 2017, 77, 294.	3.9	29
388	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.	4.7	29
389	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.	4.7	29
390	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.	4.7	29
391	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 280.	3.9	29
392	High $p_T$ leading hadron suppression in nuclear collisions at $\sqrt{s_{NN}} \approx 20-200$ GeV: data versus parton energy loss models. European Physical Journal C, 2005, 43, 295-302.	3.9	28
393	Azimuthal Angle Correlations for Rapidity Separated Hadron Pairs in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2006, 96, 222301.	7.8	28
394	Perspectives on heavy-quarkonium production at the LHC. AIP Conference Proceedings, 2008, , .	0.4	28
395	Inclusive cross section and single transverse spin asymmetry for very forward neutron production in polarized p+p collisions at $\sqrt{s} = 200$ GeV. Physical Review D, 2013, 88, .	4.7	28
396	Measurements of $\overline{\sigma}(\mathbf{t})$ 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.	4.7	28

#	ARTICLE	IF	CITATIONS
397	Search for $\overline{\text{t}}\text{t}$ production in the $\text{H} \rightarrow \text{b}\overline{\text{b}}$ decay channel with leptonic $\overline{\text{t}}\text{t}$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
398	6.4 Jet quenching. Landolt-Börnstein - Group I Elementary Particles, Nuclei and Atoms, 2010, , 471-520.	0.2	28
399	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.	4.7	28
400	HighTdirect photon and triggered azimuthal jet correlations and measurement ofkTfor isolated direct photons in p+pcollisions at $\sqrt{s}=200$ GeV. Physical Review D, 2010, 82, .	4.7	27
401	Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	4.7	27
402	Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	27
403	Triple Parton Scatterings in High-Energy Proton-Proton Collisions. Physical Review Letters, 2017, 118, 122001.	7.8	27
404	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.	4.7	27
405	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 291.	3.9	27
406	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.	1.2	27
407	Search for new neutral Higgs bosons through the $\text{H} \rightarrow \text{ZA} \rightarrow \ell\ell^+\ell\ell^-\text{b}\overline{\text{b}}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	27
408	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
409	Progress in the Glauber Model at Collider Energies. Annual Review of Nuclear and Particle Science, 2021, 71, 315-344.	10.2	27
410	New physics searches with heavy-ion collisions at the CERN Large Hadron Collider. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 060501.	3.6	27
411	Production of $\eta$ mesons at large transverse momenta in p+ppand+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2007, 75, .	2.9	26
412	Measurement of density correlations in pseudorapidity via charged particle multiplicity fluctuations in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2007, 76, .		26
413	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	26
414	Search for resonant $\overline{\text{t}}\text{t}$ production in lepton+jets events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26

#	ARTICLE	IF	CITATIONS
415	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2012, 72, 1.	3.9	26
416	Search for the standard model Higgs boson in the $H \rightarrow \tau^+ \tau^-$ channel in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
417	Measurement of the production cross section for pairs of isolated photons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
418	Search for $W \rightarrow \tau^+ \tau^-$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	4.7	26
419	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $s = 8 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.	4.7	26
420	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76 \text{ TeV}$ . European Physical Journal C, 2016, 76, 1.	3.9	26
421	Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	26
422	Beam Energy and Centrality Dependence of Direct-Photon Emission from Ultrarelativistic Heavy-Ion Collisions. Physical Review Letters, 2019, 123, 022301.	7.8	26
423	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2020, 2020, 1.	4.7	26
424	Improved measurement of double helicity asymmetry in inclusive midrapidity production for polarized pp collisions at $\sqrt{s} = 200 \text{ GeV}$ . Physical Review D, 2006, 73, .	4.7	25
425	Performance study of the CMS barrel resistive plate chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03017-T03017.	1.2	25
426	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9 \text{ TeV}$ and $7 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.	4.7	25
427	Measurement of $\langle K_S^0 \rangle$ production for polarized pp collisions at $\sqrt{s} = 200 \text{ GeV}$ . Physical Review C, 2014, 89, 054001.	4.7	25
428	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2016, 76, 325.	3.9	25
429	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	25
430	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
431	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
432	Performance of the CMS drift tube chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03015-T03015.	1.2	24



#	ARTICLE	IF	CITATIONS
433	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
434	Measurement of the $t\bar{t}$ production cross section in the $\ell\ell, \ell$ jets channel in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	3.9	24
435	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
436	Search for third-generation scalar leptoquarks in the $\ell\ell$ channel in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
437	Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
438	Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
439	Jet Shapes of Isolated Photon Tagged Jets in Pb-Pb and pp Collisions at $\sqrt{s} = 2.76$ and $\sqrt{s} = 8$ TeV. Physical Review D, 2011, 84, 1.	7.8	24
440	Measurements of $p\bar{p} \rightarrow Z\gamma$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	3.9	24
441	Alignment of the CMS muon system with cosmic-ray and beam-halo muons. Journal of Instrumentation, 2010, 5, T03020-T03020.	1.2	23
442	Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	23
443	Measurement of the $t\bar{t}$ production cross section in the $\ell\ell$ channel in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 2973.	2.9	23
444	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$ TeV in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973.	3.9	23
445	Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	23
446	Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.	3.9	23
447	Observation of Top Quark Production in Proton-Nucleus Collisions. Physical Review Letters, 2017, 119, 242001.	7.8	23
448	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.	4.7	23
449	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.	4.7	23
450	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.	3.9	23



#	ARTICLE	IF	CITATIONS
451	Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s}=8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746.	3.9	23
452	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.	4.7	23
453	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.	4.7	23
454	Search for resonant $\overline{t}t$ production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
455	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 123, 231803.	7.8	23
456	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.	4.7	23
457	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.	3.9	23
458	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
459	Centrality dependence of charged hadron production in deuteron+gold and nucleon+gold collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2008, 77, .	2.9	22
460	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. Journal of High Energy Physics, 2011, 2011, 1.	4.7	22
461	Search for physics beyond the standard model in events with $t\bar{t}$ , leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2493.	3.9	22
462	Search for $t\bar{t}\tilde{A}^{\pm}$ 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.	4.7	22
463	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.	4.7	22
464	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.	4.7	22
465	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $t\bar{t}$ , leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
466	Search for direct pair production of supersymmetric partners to the $\tau^{\pm}$ lepton in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
467	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 370.	3.9	22
468	Search for associated production of a Z boson with a single top quark and for $tZ$ flavour-changing interactions in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	21

#	ARTICLE	IF	CITATIONS
469	Search for supersymmetry in events with a $\bar{l}$ , lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	21
470	Search for beyond the standard model Higgs bosons decaying into a $\overline{\text{mathrm{b}}}$ $\text{mathrm{b}}$ pair in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. <a href="https://arxiv.org/abs/1803.09817">https://arxiv.org/abs/1803.09817</a>	4.7	21
471	Search for a $W$ Boson and a $C$ -Odd Higgs Boson in Final States with $P$ . <a href="https://arxiv.org/abs/1803.09817">https://arxiv.org/abs/1803.09817</a>	7.8	21
472	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	2.9	21
473	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
474	Hard spectra and QCD matter: experimental review. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S767-S774.	3.6	20
475	Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data. Journal of Instrumentation, 2010, 5, T03013-T03013.	1.2	20
476	Performance of the CMS cathode strip chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03018-T03018.	1.2	20
477	Performance studies of a full-length prototype for the CASTOR forward calorimeter at the CMS experiment. European Physical Journal C, 2010, 67, 601-615.	3.9	20
478	Single-inclusive production of large- $p_T$ charged particles in hadronic collisions at TeV energies and perturbative QCD predictions. Journal of High Energy Physics, 2010, 2010, 1.	4.7	20
479	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	20
480	Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	20
481	Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. European Physical Journal C, 2013, 73, 2404.	3.9	20
482	Measurements of the $\overline{\text{mathrm{t}}}$ $\text{mathrm{t}}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	20
483	Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	20
484	Top-quark production in proton-nucleus and nucleus-nucleus collisions at LHC energies and beyond. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 746, 64-72.	4.1	20
485	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	20
486	Search for $\overline{\text{mathrm{t}}}$ $\text{mathrm{t}}$ $\text{mathrm{H}}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20

#	ARTICLE	IF	CITATIONS
487	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
488	Search for rare decays of $Z$ and Higgs bosons to $J/\psi$ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.	3.9	20
489	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} > 13$ TeV. Physical Review Letters, 2020, 125, 151802.	7.8	20
490	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
491	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic couplings. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
492	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
493	Relevance of baseline hard proton-proton spectra for high-energy nucleus-nucleus physics. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S491-S512.	3.6	19
494	Aligning the CMS muon chambers with the muon alignment system during an extended cosmic ray run. Journal of Instrumentation, 2010, 5, T03019-T03019.	1.2	19
495	CMS data processing workflows during an extended cosmic ray run. Journal of Instrumentation, 2010, 5, T03006-T03006.	1.2	19
496	Systematic study of azimuthal anisotropy in Cu-Cu and Au-Au collisions at $\sqrt{s_{NN}}=62.4$ and $200$ GeV. Physical Review C, 2015, 92, .	2.9	19
497	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $\sqrt{s} = 7$ and $8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
498	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $l, \bar{l}$ , leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
499	PHYSICS AT THE FCC-ee. , 2017, , 182-191.		19
500	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
501	Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 120, 241801.	7.8	19
502	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 723.	3.9	19
503	Fine synchronization of the CMS muon drift-tube local trigger using cosmic rays. Journal of Instrumentation, 2010, 5, T03004-T03004.	1.2	18
504	Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	18

#	ARTICLE	IF	CITATIONS
505	System-size dependence of open-heavy-flavor production in nucleus-nucleus collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 90, .	4.7	18
506	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	18
507	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 460.	3.9	18
508	Measurement of normalized differential $\overline{\sigma}(\mathcal{B})$ 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
509	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
510	Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
511	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 20.	3.9	18
512	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	18
513	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 629.	3.9	18
514	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 970.	3.9	18
515	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290.	3.9	18
516	Status of Zero Degree Calorimeter for CMS Experiment. AIP Conference Proceedings, 2006, .	0.4	17
517	Calibration of the CMS drift tube chambers and measurement of the drift velocity with cosmic rays. Journal of Instrumentation, 2010, 5, T03016-T03016.	1.2	17
518	Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	17
519	Measurement of the $\Lambda_b^0$ lifetime in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	17
520	Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	17
521	Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2901.	3.9	17
522	Measurement of the ratio of the production cross sections times branching fractions of $B_c^{\pm}$ and $B_s^{\pm}$ to $B_c^{\pm} \rightarrow B^{\pm} \ell^{\pm} \nu_{\ell}$ and $B_s^{\pm} \rightarrow B^{\pm} \ell^{\pm} \nu_{\ell}$ in $\sqrt{s} = 7$ TeV pp collisions. Journal of High Energy Physics, 2015, 2015, 1.	4.7	17

#	ARTICLE	IF	CITATIONS
523	Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
524	Search for new physics with the M T2 variable in all-jets final states produced in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
525	Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
526	Measurement of electroweak-induced production of $W\hat{1}^3$ with two jets in pp collisions at $\sqrt{s} = 8$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
527	Measurements of jet charge with dijet events in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
528	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
529	Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{\text{NN}}} = 5.44$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
530	Search for $Z\hat{1}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
531	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
532	Search for the decay of a Higgs boson in the $\hat{a}, \hat{a}, \hat{1}^3$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
533	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 697.	3.9	17
534	Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 1.	3.9	17
535	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
536	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
537	Measurement of the $\overline{\text{t}}\text{t}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
538	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
539	Heavy-ion physics studies for the Future Circular Collider. Nuclear Physics A, 2014, 931, 1163-1168.	1.5	16
540	Measurement of jet multiplicity distributions in $\overline{\text{t}}\text{t}$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3014.	3.9	16



#	ARTICLE	IF	CITATIONS
541	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $\mu e \frac{1}{4}$ pair in proton-proton collisions at $\sqrt{s}=8$ -ext $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 317.	3.9	16
542	Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s}=8, \text{TeV}$ $s = 8$ TeV. European Physical Journal C, 2016, 76, 536.	3.9	16
543	Search for excited leptons in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
544	Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
545	Measurement of the production cross section of a $W$ boson in association with two b jets in pp collisions at $\sqrt{s} = 8, \text{TeV}$ $s = 8$ TeV. European Physical Journal C, 2017, 77, 92.	3.9	16
546	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8$ $s = 8$ ext $\sqrt{s}=8$ TeV. European Physical Journal C, 2018, 78, 287.	3.9	16
547	Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
548	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13, \text{TeV}$ $s = 13$ TeV. European Physical Journal C, 2019, 79, 886.	3.9	16
549	Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	15
550	Measurement of the mass difference between top and antitop quarks. Journal of High Energy Physics, 2012, 2012, 1.	4.7	15
551	Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	15
552	Global properties of proton-proton collisions at $s = 100 \sqrt{s}=100$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
553	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
554	Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
555	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
556	Measurement of the $t \bar{t} \hat{A}^-$ $\text{mathrm{t}}\overline{\text{mathrm{t}}}$ production cross section using events with one lepton and at least one jet in pp collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
557	Search for new physics with dijet angular distributions in proton-proton collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
558	Search for a singly produced third-generation scalar leptoquark decaying to a $\tilde{l}$ , lepton and a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	15

#	ARTICLE	IF	CITATIONS
559	Measurement of b hadron lifetimes in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 457.	3.9	15
560	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
561	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tau\bar{4l}$ , and $e\bar{l}$ , in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	15
562	Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	15
563	Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
564	Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	14
565	Measurement of the production cross section for $Z\gamma o u \overline{u}\gamma$ in pp collisions at $\sqrt{s} = 7$ TeV and limits on $ZZ\gamma^3$ and $Z\gamma^3$ triple gauge boson couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	14
566	Heavy-flavor electron-muon correlations in pp collisions at $\sqrt{s}=7$ TeV. Physical Review C, 2014, 89, 024001.	2.9	14
567	Scaling properties of fractional momentum loss of high-pT particles in nucleus-nucleus collisions at $\sqrt{s}=6.24$ GeV to 2.76 TeV. Physical Review C, 2016, 93, 054907.	2.9	14
568	Search for s channel single top quark production in pp collisions at $s = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
569	Search for supersymmetry in pp collisions at $s = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
570	Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\tau\bar{\tau}$ at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
571	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
572	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
573	Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
574	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
575	Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 221802.	7.8	14
576	Studies of $B_s \rightarrow B_s^0 \gamma$ and $B_s \rightarrow B_s^0 \gamma^*$ decays. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14

#	ARTICLE	IF	CITATIONS
577	Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
578	Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
579	Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
580	Search for electroweak production of a vector-like T quark using fully hadronic final states. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
581	Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
582	Observation of the $pp \rightarrow B_s \rightarrow \mu^+ \mu^-$ process in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
583	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV $PbPb$ collisions. European Physical Journal C, 2020, 80, 534.	3.9	14
584	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
585	Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
586	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 153.	3.9	14
587	Performance studies of prototype II for the CASTOR forward calorimeter at the CMS experiment. European Physical Journal C, 2007, 52, 495-506.	3.9	13
588	Search for light resonances decaying into pairs of muons as a signal of new physics. Journal of High Energy Physics, 2011, 2011, 1.	4.7	13
589	Measurement of the underlying event activity in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV with the novel jet-area/median approach. Journal of High Energy Physics, 2012, 2012, 1.	4.7	13
590	Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	13
591	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
592	Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
593	Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	13
594	Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13

#	ARTICLE	IF	CITATIONS
595	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
596	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
597	Jet properties in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
598	Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
599	Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
600	Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
601	Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in $pp$ Collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	7.8	13
602	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
603	Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	13
604	Double, Triple, and $n$ -Parton Scatterings in High-Energy Proton and Nuclear Collisions. Advanced Series on Directions in High Energy Physics, 2018, , 159-187.	0.7	13
605	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
606	Suppression of Soft Nuclear Bremsstrahlung in Proton-Nucleus Collisions. Physical Review Letters, 2002, 88, 122302.	7.8	12
607	Constraints on the time scale of nuclear breakup from thermal hard-photon emission. European Physical Journal A, 2006, 28, 161-171.	2.5	12
608	Low- $x$ QCD physics from RHIC and HERA to the LHC. European Physical Journal A, 2007, 31, 816-823.	2.5	12
609	Energy evolution of the moments of the hadron distribution in QCD jets including NNLL resummation and NLO running-coupling corrections. Journal of High Energy Physics, 2014, 2014, 1.	4.7	12
610	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	12
611	Phenomenological MSSM interpretation of CMS searches in pp collisions at $s = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	12
612	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

#	ARTICLE	IF	CITATIONS
613	Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
614	Low-momentum direct-photon measurement in Cu + Cu collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV. Physical Review C, 2018, 98, .	4.7	12
615	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
616	Search for dark matter produced in association with a Higgs boson decaying to $\tilde{\chi}_1^0\tilde{\chi}_1^0$ or $\tilde{\chi}_1^0, \tilde{\chi}_1^\pm, \tilde{\chi}_2^0$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
617	Triple-parton scatterings in proton-nucleus collisions at high energies. European Physical Journal C, 2018, 78, 1.	3.9	12
618	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	12
619	Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	12
620	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 893.	3.9	12
621	Investigation into the event-activity dependence of $\tilde{p}(nS)$ relative production in proton-proton collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
622	Constraints on the production of $\tilde{t}$ versus $\tilde{t}^*$ in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 1.	4.7	12
623	Polarizations in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 1.	4.7	12
623	Search for new physics in top quark production with additional leptons in proton-proton collisions at $\sqrt{s}=13$ TeV using effective field theory. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
624	Development and validation of HERWIG7 tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
625	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	12
626	Coherent Bremsstrahlung in the $\tilde{t}$ -p System at 50 MeV/nucleon. Physical Review Letters, 2000, 85, 1404-1407.	7.8	11
627	Associated production of p and $\tilde{t}$ in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 1.	4.1	11
628	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	11
629	Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	11
630	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow \tilde{\chi}_1^0, \tilde{\chi}_1^\pm, \tilde{\chi}_2^0$ decay channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	11



#	ARTICLE	IF	CITATIONS
631	Pair production of quarkonia and electroweak bosons from double-parton scatterings in nuclear collisions at the LHC. Nuclear Physics A, 2014, 931, 303-308.	1.5	11
632	Measurement of the $Z\bar{1}^3$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. Journal of High Energy Physics, 2015, 2015, 1.	4.7	11
633	Search for electroweak production of charginos in final states with two $\bar{1}$ , leptons in pp collisions at $s = 8 \sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
634	Measurements of $e+e^{\wedge}$ pairs from open heavy flavor in p+p and d+A collisions at $s_{NN}=200$ GeV. Physical Review C, 2017, 96, .	2.9	11
635	Measurement of the semileptonic $t \bar{t} \hat{A}^- \mathbb{m}{t}\overline{\mathbb{m}{t}} + \hat{1}^3$ production cross section in pp collisions at $s = 8 \sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
636	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $s = 8 \sqrt{s} = 8$ TeV using $H \hat{t}^{\wedge}$ WW decays. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
637	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
638	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
639	Search for supersymmetry in events with a photon, jets, $\mathbb{m}{b}$ -jets, and missing transverse momentum in proton-proton collisions at $13 \sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 444.	3.9	11
640	Search for nonresonant Higgs boson pair production in the $\mathbb{m}{b}\overline{\mathbb{m}{b}}\mathbb{m}{b}\overline{\mathbb{m}{b}}$ final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
641	Study of the underlying event in top quark pair production in $\mathbb{m}{p}\mathbb{m}{p}$ collisions at $13 \sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 123.	3.9	11
642	Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
643	Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
644	Measurement of electroweak production of a $\mathbb{m}{W}$ boson in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 43.	3.9	11
645	Higgs physics at the Future Circular Collider. , 2017, , .		11
646	Photon production in heavy-ion collisions close to the pion threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 461, 28-33.	4.1	10
647	Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	10
648	Suppression of away-side jet fragments with respect to the reaction plane in Au + Au collisions at $s_{NN}=200$ GeV. Physical Review C, 2011, 84, .	2.9	10

#	ARTICLE	IF	CITATIONS
649	Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $s = 2.76 \sqrt{s} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.	4.7	10
650	$\hat{s}$ and $ V_{cs} $ determination, and CKM unitarity test, from W decays at NNLO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 465-471.	4.1	10
651	Measurements of the $pp \hat{t}^* W^{\pm 3} \hat{t}$ and $pp \hat{t}^* Z^{\pm 3} \hat{t}$ cross sections and limits on anomalous quartic gauge couplings at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
652	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
653	Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
654	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2018, 78, 242.	3.9	10
655	Measurement of the $\mathcal{Z}/\gamma^* \rightarrow \text{au au}$ cross section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ and validation of $\mathcal{Z}/\gamma^* \rightarrow \text{u}\bar{\text{u}}$ , $\text{d}\bar{\text{d}}$ , cross section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ and validation of $\mathcal{Z}/\gamma^* \rightarrow \text{u}\bar{\text{u}}$ , $\text{d}\bar{\text{d}}$ . European Physical Journal C, 2018, 78, 708.	3.9	10
656	Search for a heavy resonance decaying into a Z boson and a vector boson in the $\text{u}\bar{\text{u}} \rightarrow \text{q}\bar{\text{q}}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
657	Search for resonances decaying to a pair of Higgs bosons in the $\text{b}\bar{\text{b}} \rightarrow \text{q}\bar{\text{q}}$ final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
658	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	10
659	Evidence for $\text{W}^+ \text{W}^-$ production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2020, 80, 1.	3.9	10
660	Particle-Species Dependent Modification of Jet-Induced Correlations in $\text{pp} \rightarrow \text{Au} + \text{jet} + \text{jet}$ Collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review Letters, 2008, 101, 082301.	7.8	9
661	Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ and 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	2.9	9
662	Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ and 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
663	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\tau$ final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
664	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2018, 78, 1.	3.9	9
665	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 $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2019, 79, 1.	3.9	9
666	Search for a low-mass $\tilde{\chi}_0^0 \tilde{\chi}_1^{\pm}$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	9

#	ARTICLE	IF	CITATIONS
667	Simulation of Charm Quark Diffusion inside Jets Using Pb-Pb and $\sqrt{s} = 13$ TeV Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 125, 122001.	7.8	9
668	Search for a heavy vector resonance decaying to a $Z$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 688.	3.9	9
669	Measuring the electron Yukawa coupling via resonant s-channel Higgs production at FCC-ee. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	9
670	High-pT $\pi^0$ suppression in Au+Au collisions at GeV. <i>Nuclear Physics A</i> , 2003, 715, 749c-752c.	1.5	8
671	High-density QCD with CMS at the LHC. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008, 35, 104039.	3.6	8
672	Searches for $W\tilde{\chi}^0$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	8
673	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV and 8.16 TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	8
674	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\gamma$ final states at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	8
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.	4.7	8
676	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $pp$ collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 773.	3.9	8
677	Search for light-by-light scattering in ultraperipheral PbPb collisions at $\sqrt{s} = 2.76$ TeV. <i>Nuclear Physics A</i> , 2019, 982, 791-794.	1.5	8
678	Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	8
679	Dependence of inclusive jet production on the anti-kT distance parameter in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	8
680	Low-x QCD studies with forward jets in proton-proton collisions at $\sqrt{s} = 14$ TeV. , 2009, , .		7
681	Cross sections and double-helicity asymmetries of midrapidity inclusive charged hadrons in p+p collisions at $\sqrt{s} = 6.24$ GeV. <i>Physical Review D</i> , 2012, 86, .	4.7	7
682	Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	7
683	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	7
684	Search for high-mass $Z^{\prime}$ resonances in $e^+e^- \rightarrow \tilde{\chi}^0 \tilde{\chi}^0$ and $\tilde{\chi}^0 \tilde{\chi}^{\pm}$ final states in proton-proton collisions at $\sqrt{s} = 8$ TeV and 13 TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	7

#	ARTICLE	IF	CITATIONS
685	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s} = 13$ TeV via Higgs boson decays to $\bar{l}l$ , leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
686	Study of central exclusive "Equation missing" $\leftarrow$ No EquationSource Format="TEX", only image $\rightarrow$ production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718.	3.9	7
687	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. Physical Review Letters, 2020, 125, 222001.	7.8	7
688	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	7
689	Title is missing!. Nuclear Physics, Section B, Proceedings Supplements, 2008, 179-180, 1.	0.4	6
690	Forward Physics at the LHC: within and beyond the Standard Model. AIP Conference Proceedings, 2008, , .	0.4	6
691	Double-helicity dependence of jet properties from dihadrons in longitudinally polarized p+p collisions at $\sqrt{s} = 200$ GeV. Physical Review D, 2010, 81, .	4.7	6
692	Measurement of the cross section for production of $\bar{b} X b$ decaying to muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	6
693	The Strong Interaction at the Collider and Cosmic-Rays Frontiers. Few-Body Systems, 2012, 53, 173-179.	1.5	6
694	Comparison of the $Z/\bar{\nu} \rightarrow +$ jets to $\bar{\nu} +$ jets cross sections in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	6
695	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 302.	3.9	6
696	Measurement of the mass of the top quark in decays with a $J/\psi$ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	6
697	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	6
698	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
699	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2019, 79, 969.	3.9	6
700	Search for decays of the 125 GeV Higgs boson into a Z boson and a $\bar{c}c$ meson. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
701	Determination of the strong coupling constant $\hat{\alpha}_S(m_Z)$ from measurements of inclusive $W\Delta$ and Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
702	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.		6

#	ARTICLE	IF	CITATIONS
703	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
704	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
705	Quarkonia Photoproduction at Nucleus Colliders. Nuclear Physics, Section B, Proceedings Supplements, 2008, 184, 158-162.	0.4	5
706	Single inclusive pion spectra in proton-proton collisions at $\sqrt{s} = 2.4$ GeV: Data versus perturbative QCD calculations. Physical Review D, 2008, 78, .	4.7	5
707	Double-parton scattering cross sections in proton-nucleus and nucleus-nucleus collisions at the LHC. Nuclear Physics A, 2014, 932, 296-301.	1.5	5
708	Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
709	Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
710	Search for a heavy resonance decaying to a top quark and a vector-like top quark at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	5
711	Measurement of the inclusive $\sigma(\overline{t}t)$ 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
712	Observation of the $Z \rightarrow \tau^+ \tau^-$ Decay in pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 121, 1418015		
713	Search for a $W \rightarrow \tau^+ \tau^-$ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
714	Search for the pair production of light top squarks in the $e^+ e^- \rightarrow t \bar{t}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
715	Impact of QCD Jets and Heavy-quark Production in Cosmic-Ray Proton Atmospheric Showers up to $10^{20}$ eV. Astrophysical Journal, 2019, 874, 152.	4.5	5
716	Measurement of the cross section for $\sigma(\overline{t}t)$ production with additional jets and b jets in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	5
717	Higgs boson production in photon-photon interactions with proton, light-ion, and heavy-ion beams at current and future colliders. Physical Review D, 2020, 101, .	4.7	5
718	Measurement of energy flow at large pseudorapidities in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV. , 2011, 2011, 1.		5
719	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
720	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .	4.7	5



#	ARTICLE	IF	CITATIONS
721	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
722	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
723	Observing true tauonium via two-photon fusion at $e^+e^- \rightarrow e^+e^- \gamma \gamma$ and hadron colliders. Physical Review D, 2022, 105, ..	4.7	5
724	Small-xQCD studies with CMS at the LHC. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, S709-S713.	3.6	4
725	High-energy heavy-ions physics: from RHIC to LHC. Nuclear Physics A, 2007, 782, 215-223.	1.5	4
726	The PHENIX Collaboration. Nuclear Physics A, 2009, 830, 963c-966c.	1.5	4
727	Cosmic-ray Monte Carlo predictions for forward particle production in p-p, p-Pb, and Pb-Pb collisions at the LHC. Indian Journal of Physics, 2010, 84, 1837-1842.	1.8	4
728	Search for pair production of excited top quarks in the lepton + jets final state. Journal of High Energy Physics, 2014, 2014, 1.	4.7	4
729	Nuclear collisions at the Future Circular Collider. Nuclear Physics A, 2016, 956, 854-857.	1.5	4
730	Search for dark matter particles in proton-proton collisions at $s = 8 \sqrt{s} = 8$ TeV using the razor variables. Journal of High Energy Physics, 2016, 2016, 1.	4.7	4
731	Search for CP violation in $t \bar{t} \hat{A}^-$ production and decay in proton-proton collisions at $s = 8 \sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	4
732	Measurement of differential cross sections in the kinematic angular variable $i^*$ for inclusive Z boson production in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
733	Search for ZZ resonances in the $2\hat{a}, "2\hat{1}/2$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
734	Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
735	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 305.	3.9	4
736	Search for $W \rightarrow 3\pi$ Boson Decays to Three Charged Pions. Physical Review Letters, 2019, 122, 151802.	7.8	4
737	The production of isolated photons in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
738	Search for supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4

#	ARTICLE	IF	CITATIONS
739	Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	4
740	$\alpha_s$ status and perspectives (2018). , 2018, , .		4
741	Extraction of the strong coupling $\hat{\alpha}_s(m_Z)$ from a combined NNLO analysis of inclusive electroweak boson cross sections at hadron colliders. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
742	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	4
743	Jet quenching: RHIC results and phenomenology. AIP Conference Proceedings, 2006, , .	0.4	3
744	Production versus Centrality, Transverse Momentum, and Rapidity in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV [Phys. Rev. Lett. 98, 232301 (2007)]. Physical Review Letters, 2007, 98, 7.	7.8	3
745	Low-x QCD with CMS at the LHC. European Physical Journal C, 2007, 49, 155-162.	3.9	3
746	Study of hadronic event-shape variables in multijet final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	3
747	Search for $W \rightarrow tb$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	3
748	Top-quark and Higgs boson perspectives at heavy-ion colliders. Nuclear and Particle Physics Proceedings, 2017, 289-290, 237-240.	0.5	3
749	Search for top quark partners with charge 5/3 in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	3
750	Inclusive search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV using razor variables and boosted object identification in zero and one lepton final states. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
751	Search for excited leptons in $e^+e^-$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
752	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P05002-P05002.	1.2	3
753	Search for the lepton flavor violating decay $\tilde{l}_i \rightarrow \tilde{l}_j \gamma$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
754	Measurement of the $(\overline{t}t)$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. , 2014, 2014, 1.		3
755	Study of the $B^+ \rightarrow J/\psi \overline{\Lambda} p$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
756	Measurements of the $(pp) \rightarrow Z Z$ production cross section and the $(Z \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. , 2018, 78, 1.		3

#	ARTICLE	IF	CITATIONS
757	A special Higgs challenge: measuring the mass and production cross section with ultimate precision at FCC-ee. European Physical Journal Plus, 2022, 137, 1.	2.6	3
758	Hard photon and neutral pion production in cold nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 519, 8-14.	4.1	2
759	Exclusive Photoproduction of $\bar{l}l$ and lepton pairs in Pb-Pb at 5.5 TeV. Nuclear Physics, Section B, Proceedings Supplements, 2008, 179-180, 150-155.	0.4	2
760	Physics with ions at the Future Circular Collider. Nuclear Physics A, 2017, 967, 888-891.	1.5	2
761	Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 1.	3.9	2
762	Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
763	Measurement of the top quark pair production cross section in dilepton final states containing one $\bar{l}$ , lepton in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
764	Measurements of angular distance and momentum ratio distributions in three-jet and $Z$ + two-jet final states in $pp$ collisions. European Physical Journal C, 2021, 81, 852.	3.9	2
765	$\alpha_s$ extraction from inclusive W and Z cross sections in pp collisions at the LHC. , 2019, , .		2
766	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
767	Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
768	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	2
769	Low-x QCD studies with forward jets in p-p at 14 TeV. Indian Journal of Physics, 2010, 84, 1783-1788.	1.8	1
770	Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	1
771	Determination of $\alpha_s$ at NLO*+NNLL from a global fit of the low-z parton-to-hadron fragmentation functions in e <sup>+</sup> e <sup>-</sup> and DIS collisions. EPJ Web of Conferences, 2015, 90, 04001.	0.3	1
772	Ultrahigh-energy cosmic rays: Anomalies, QCD, and LHC data. EPJ Web of Conferences, 2019, 210, 02005.	0.3	1
773	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	1
774	$\alpha_s(2019)$ discussions summary. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
775	QCD studies at FCC-ee. , 2017, , .		1
776	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
777	Observation of $B^0 \rightarrow \psi(2S) K^0_{\text{S}} \psi^+ \psi^-$ and $B^0_{\text{S}} \rightarrow \psi(2S) K^0_{\text{S}} \psi^+ \psi^-$ decays. European Physical Journal C, 2022, 82, .	3.9	1
778	High T Identified Particles in PHENIX: Data vs. Theory. Acta Physica Hungarica A Heavy Ion Physics, 2004, 21, 221-228.	0.4	0
779	PHENIX Collaboration. Nuclear Physics A, 2006, 774, 949-953.	1.5	0
780	Forward Physics at the LHC: within and beyond the Standard Model. Brazilian Journal of Physics, 2008, 38, 381-390.	1.4	0
781	Jet quenching in QCD matter: from RHIC to LHC. Nuclear Physics A, 2009, 827, 356c-364c.	1.5	0
782	Physics at the LHC: a short overview. Journal of Physics: Conference Series, 2011, 270, 012001.	0.4	0
783	Impact of LHC Run-1 on particle astrophysics. EPJ Web of Conferences, 2014, 71, 00031.	0.3	0
784	PHENIX Collaboration. Nuclear Physics A, 2014, 932, 627-633.	1.5	0
785	Uncertainties on the determination of the strong coupling $\hat{\alpha}_s$ from the energy evolution of jet fragmentation functions at low z. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1943-1948.	0.5	0
786	PHENIX Collaboration. Nuclear Physics A, 2016, 956, 964-970.	1.5	0
787	PHENIX Collaboration. Nuclear Physics A, 2017, 967, 996-1003.	1.5	0
788	Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	0
789	PHENIX Collaboration. Nuclear Physics A, 2019, 982, 1053-1059.	1.5	0
790	Forward Physics at the LHC. , 2007, , .		0
791	Perturbative probes of QCD matter at the LHC. , 2012, , .		0
792	Particle Physics with DIS - on the European Particle Physics Strategy Update. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
793	Future heavy-ion facilities: FCC-AA. , 2019, , .		0
794	Charm, bottom, and quarkonia cross sections for double and triple-parton scatterings in high-energy proton-nucleus and nucleus-nucleus collisions. , 2019, , .		0
795	$a_S$ from soft QCD jet fragmentation functions. , 2019, , .		0
796	High-precision $\hat{\sigma}_{\pm}$ from W and Z hadronic decays. , 2019, , .		0
797	Rare two-body decays of the top quark into a bottom meson plus an up or charm quark. Journal of High Energy Physics, 2020, 2020, 1.	4.7	0