

Jesus Puerta Pelayo

List of Publications by Year in descending order

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Version: 2024-02-01

536
papers

27,869
citations

6254

80
h-index

10734

138
g-index

549
all docs

549
docs citations

549
times ranked

10606
citing authors

#	ARTICLE	IF	CITATIONS
1	<p>Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i>, 2015, 114, 191803.</p>	7.8	1,062
2	<p>CMS Physics Technical Design Report, Volume II: Physics Performance. <i>Journal of Physics G: Nuclear and Particle Physics</i>, 2007, 34, 995-1579.</p>	3.6	683
3	<p>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. <i>European Physical Journal C</i>, 2015, 75, 212.</p>	3.9	541
4	<p>Determination of jet energy calibration and transverse momentum resolution in CMS. <i>Journal of Instrumentation</i>, 2011, 6, P11002-P11002.</p>	1.2	508
5	<p>Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i>, 2016, 76, 155.</p>	3.9	499
6	<p>Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i>, 2010, 2010, 1.</p>	4.7	497
7	<p>Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i>, 2012, 7, P10002-P10002.</p>	1.2	467
8	<p>Identification of b-quark jets with the CMS experiment. <i>Journal of Instrumentation</i>, 2013, 8, P04013-P04013.</p>	1.2	418
9	<p>Description and performance of track and primary-vertex reconstruction with the CMS tracker. <i>Journal of Instrumentation</i>, 2014, 9, P10009-P10009.</p>	1.2	380
10	<p>Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>European Physical Journal C</i>, 2012, 72, 1.</p>	3.9	369
11	<p>Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i>, 2014, 74, 3076.</p>	3.9	342
12	<p>Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7$ and 8 TeV. <i>Journal of High Energy Physics</i>, 2013, 2013, 1.</p>	4.7	320
13	<p>Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i>, 2015, 75, 235.</p>	3.9	320
14	<p>Measurement of the $B \rightarrow s \gamma$ Branching Fraction and Search for $B \rightarrow s \gamma$ for $B \rightarrow s \gamma$. <i>Physical Review Letters</i>, 2012, 109, 222301.</p>	7.8	282
15	<p>Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. <i>European Physical Journal C</i>, 2014, 74, 3036.</p>	3.9	241
16	<p>Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. <i>Journal of High Energy Physics</i>, 2010, 2010, 1.</p>	4.7	230
17	<p>Observation of Sequential $\tilde{\chi}^0$ Suppression in PbPb Collisions. <i>Physical Review Letters</i>, 2012, 109, 222301.</p>	7.8	220
18	<p>Observation of Higgs Boson Decay to Bottom Quarks. <i>Physical Review Letters</i>, 2018, 121, 121801.</p>	7.8	219

#	ARTICLE	IF	CITATIONS
19	Observation of $t\bar{t}$ production in $PbPb$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2010, 120, 231801.	7.8	209
20	Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy. Physical Review Letters, 2011, 107, 221804.	7.8	208
21	Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in $PbPb$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	200
22	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
23	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
24	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
25	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
26			

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37	Measurement of Long Range Near Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2016, 116, 172302.	7.8	139
38	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
39	Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	3.9	135
40	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
41	Search for Dijet Resonances in pp Collisions at CMS. Physical Review Letters, 2010, 105, 211801.	7.8	126
42	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
43	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
44	Evidence for the 125 GeV Higgs boson decaying to a pair of τ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	123
45	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
46	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	122
47	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	3.9	120
48	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
49	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
50	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	117
51	Observation of Charge-Dependent Azimuthal Correlations in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2017, 118, 122301.	7.8	108
52	Observation of Charge-Dependent Azimuthal Correlations in pp Collisions and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 118, 122301.	7.8	107
53	Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36,$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	106
54	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	103

#	ARTICLE	IF	CITATIONS
55	Missing transverse energy performance of the CMS detector. Journal of Instrumentation, 2011, 6, P09001-P09001.	1.2	102
56	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
57	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	100
58	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	99
59	Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710.	3.9	98
60	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7$ TeV and comparison with $\sqrt{s} = 0.9$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	97
61	Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	95
62	Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s}=8$ TeV. Journal of Instrumentation, 2015, 10, P02006-P02006.	1.2	93
63	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
64	Performance of τ, q -lepton reconstruction and identification in CMS. Journal of Instrumentation, 2012, 7, P01001-P01001.	1.2	91
65	Searches for new physics using $\cos\theta^*$ invariant mass distribution in pp collisions at $\sqrt{s}=8$ TeV. Physical Review Letters, 2013, 111, 211804.	7.8	90
66	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 147.	3.9	88
67	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
68	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	85
69	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
70	Study of double parton scattering using $W + 2$ -jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	85
71	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 2847.	3.9	85
72	Reconstruction and identification of τ , lepton decays to hadrons and $\tau \rightarrow \mu + \nu_{\tau}$ at CMS. Journal of Instrumentation, 2016, 11, P01019-P01019.	1.2	85

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73	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
74	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
75	Measurement of the differential cross section and charge asymmetry for inclusive $\mathcal{P} \rightarrow \mathcal{W}^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	3.9	83
76	Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV . European Physical Journal C, 2018, 78, 509.	3.9	83
77	Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	82
78	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
79	J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	81
80	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
81	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
82	Study of Z Boson Production in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.	7.8	80
83	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
84	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
85	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
86	Search for Top-Quark Partners with Charge $\pm 2/3$ in the Same-Sign Dilepton Final State. Physical Review Letters, 2014, 112, 171801.	7.8	76
87	Study of exclusive two-photon production of $W+W^*$ 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
88	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
89	Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	3.9	74
90	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

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91	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
92	Search for additional neutral MSSM Higgs bosons in the \tilde{l}, \tilde{l}^* final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	73
93	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
94	Measurement of the Splitting Function in $p\bar{p}$ collisions at $\sqrt{s}=13$ TeV and Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	7.8	70
95	Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2019, 120, 202201.	7.8	70
96	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
97	Measurement of the $\overline{\text{tt}}$ 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
98	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
99	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
100	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
101	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
102	Measurement of the $\overline{\text{tt}}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2019, 79, 368.	3.9	68
103	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
104	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
105	Search for a Higgs Boson Produced in the Dimuon Decay Channel in $p\bar{p}$ Collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	7.8	65
106	Observation of a New $\tilde{t}\tilde{b}$ Baryon. Physical Review Letters, 2012, 108, 252002.	7.8	65
107	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
108	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

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109	Search for Flavor-Changing Neutral Currents in Top-Quark Decays $\text{t} \rightarrow \text{q} + \text{Z} + \text{jet}$	7.8	64
110	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
111	Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider. Physical Review Letters, 2012, 108, 111801.	7.8	63
112	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
113	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.	7.8	62
114	Measurement of the $W+W^*$ cross section in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous WW^3 and WWZ couplings. European Physical Journal C, 2013, 73, 1.	3.9	62
115	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
116	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
117	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
118	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
119	Observation of Two Excited States and Measurement of the B_c Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	7.8	62
120	Measurement of the B_c Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	7.8	61
121	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 131802.	7.8	61
122	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1.	3.9	60
123	Performance and operation of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03010-T03010.	1.2	59
124	Alignment of the CMS silicon tracker during commissioning with cosmic rays. Journal of Instrumentation, 2010, 5, T03009-T03009.	1.2	59
125	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
126	Search for anomalous t production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58

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127	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
128	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	4.7	58
129	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$. European Physical Journal C, 2015, 75, 237.	3.9	58
130	Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. Journal of Instrumentation, 2010, 5, T03014-T03014.	1.2	57

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#	ARTICLE	IF	CITATIONS
145	Measurement of the $\sigma(\text{m t})$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	53
146	Measurement of prompt and nonprompt J/ψ production in pp and pp collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	3.9	53
147	Performance of CMS muon reconstruction in cosmic-ray events. Journal of Instrumentation, 2010, 5, T03022-T03022.	1.2	52
148	Measurement of the $\sigma(\text{t t})$ 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
149	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
150	Measurements of the $\sigma(\text{p p} \rightarrow \text{Z Z})$ production cross section and the $\text{BR}(\text{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 165.	3.9	52
151	Search for exclusive or semi-exclusive $\hat{t}\hat{t}^*$ 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
152	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
153	Search for $B_s \rightarrow \mu^+ \mu^-$ and $B \rightarrow \mu^+ \mu^-$ Decays in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 150102.	4.7	50
154	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
155	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2018, 121, 241802.	7.8	50
156	Search for leptonic decays of $W \rightarrow \mu\mu$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	49
157	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
158	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
159	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
160	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
161	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
162	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

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163	Search for the χ_{c1} and χ_{c2} charmonium states in pp and $\text{p}\bar{\text{p}}$ collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	7.8	47
164	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.	7.8	47
165	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	46
166	Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707.	4.7	46
167	Search for heavy bottom-like quarks in 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	3.9	46
168	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.	4.7	45
169	Search for microscopic black holes in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	7.8	45
170	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
171	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.	4.7	44
172	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140.	3.9	44
173	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
174	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
175	Constraints on the $p\text{MSSM}$, 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.	4.7	43
176	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.	3.9	43
177	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.	4.7	42
178	Evidence for exclusive $\tilde{t}_1\tilde{t}_1^* W + W \tilde{a}^*$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	42
179	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

#	ARTICLE	IF	CITATIONS
181	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
182	Measurement of the $t \bar{t} \hat{A}^-$ production cross section in the $e\hat{1}/4$ channel in proton-proton collisions at $s = 7 \sqrt{s} = 7 \text{ TeV}$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
183	Measurement of the $\overline{\text{t}} \text{t} \hat{A}^-$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8 \text{ TeV}$, $\sqrt{s} = 8 \text{ TeV}$, $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2016, 76, 128.	3.9	41
184	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 $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	41
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187	Search for same-sign top-quark pair production at $\sqrt{s} = 7 \text{ TeV}$ and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	40
188	Measurement of the $\overline{\text{t}} \text{t} \hat{A}^-$ production cross section using events in the $\mu e \hat{1}/4$ final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$, $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 172.	3.9	40
189	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	3.9	40
190	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	40
191	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2021, 81, 378.	3.9	40
192	Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	39
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194	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
195	Measurement of the ZZ production cross section and search for anomalous couplings in $2\hat{A}^0, 2\hat{A}^0, \hat{A}^0 \hat{A}^0$ final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
196	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $s = 7 \sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	39
197	Measurement of differential cross sections for $\text{Z} + \text{jets}$ Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$, $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2018, 78, 965.	3.9	39
198	Search for heavy stable charged particles in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	38

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199	Measurement of the top-quark mass in $\overline{t}t$ 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
200	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
201	Suppression of Excited $\overline{t}t$ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 120, 142301.	7.8	38
202	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\overline{t}t$, leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
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204	Measurement of the $\overline{t}t$ 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, 71, 1.	3.9	37
205	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
206	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
207	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
208	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
209	Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays. Journal of Instrumentation, 2010, 5, T03021-T03021.	1.2	36
210	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
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213	Measurement of the top-quark mass in all-jets $\overline{t}t$ events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 2758.	3.9	35
214	Search for heavy Majorana neutrinos in $e\overline{e} \rightarrow e\overline{e} + \overline{t}t$ jets and $e\overline{e} \rightarrow e\overline{e} + \overline{t}t$ jets events in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	35
215	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2017, 119, 111802.	7.8	35
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218	Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 269.	3.9	35
219	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 488.	3.9	35
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221	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
222	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
223	Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 379.	3.9	34
224	Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.	3.9	34
225	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two \tilde{l} , leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
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228	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
229	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
230	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two \tilde{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
231	Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 702.	3.9	33
232	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
233	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3.	3.9	33
234	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

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236	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	4.7	32
237	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7 \text{TeV}$. European Physical Journal C, 2013, 73, 2674.	3.9	32
238	Alignment of the CMS tracker with LHC and cosmic ray data. Journal of Instrumentation, 2014, 9, P06009-P06009.	1.2	32
239	Measurements of the $Z Z$ production cross sections in the 2μ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 . European Physical Journal C, 2015, 75, 511.	3.9	32
240	Searches for pair production of third-generation squarks in $\sqrt{s} = 13 \text{TeV}$ pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
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243	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8 \text{TeV}$. European Physical Journal C, 2015, 75, 66.	3.9	31
244	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76 \text{TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	31
245	Search for top squark pair production in pp collisions at $\sqrt{s} = 13 \text{TeV}$ using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
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248	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7 \text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	30
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251	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
252	Search for massive WH resonances decaying into the $b\bar{b}$ final state at $\sqrt{s} = 8 \text{TeV}$. European Physical Journal C, 2016, 76, 237.	3.9	30

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256	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
257	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02, \text{mathrm}\{\text{TeV}\}$ s_{NN} . European Physical Journal C, 2016, 76, 372.	3.9	29
258	Correlations between jets and charged particles in PbPb and pp collisions at $s_{NN} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	29
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260	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
261	Search for lepton flavour violating decays of the Higgs boson to $\tau\mu$, and $e\tau$, in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
262	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
263	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ Te}$. European Physical Journal C, 2019, 79, 280.	3.9	29
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265	Search for $\overline{\sigma}(\text{pp} \rightarrow \text{Z} + \text{H} + \text{lepton pair})$ production in the $\text{H} \rightarrow \text{bb}$ decay channel with leptonic $\overline{\sigma}(\text{pp} \rightarrow \text{Z} + \text{H} + \text{lepton pair})$ decays in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
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269	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 $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	27
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272	Search for new neutral Higgs bosons through the $\text{H} \rightarrow \text{ZZ} \rightarrow \text{e}^+ \text{e}^- \text{b} \bar{\text{b}}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	27
273	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
274	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
275	Search for resonant $\text{t} \bar{\text{t}}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
276	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	26
277	Search for $W \rightarrow \text{tb}$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	26
278	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	26
279	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76$ TeV. European Physical Journal C, 2016, 76, 1.	3.9	26
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281	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	26
282	Performance study of the CMS barrel resistive plate chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03017-T03017.	1.2	25
283	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9$ TeV and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	25
284	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325.	3.9	25
285	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	25
286	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
287	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
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290	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
291	Search for third-generation scalar leptoquarks in the $\bar{\text{t}}_{\text{b}}$ channel in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
292	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
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299	Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	23
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301	Observation of Top Quark Production in Proton-Nucleus Collisions. Physical Review Letters, 2017, 119, 242001.	7.8	23
302	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
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308	Search for resonant $\overline{\text{t}}\text{t}$ production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
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310	Search for a light pseudoscalar Higgs boson in the boosted $\hat{t}\hat{t}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23
311	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
312	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
313	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
314	Search for physics beyond the standard model in events with $\hat{t}\hat{t}$, 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
315	Search for $\overline{\text{t}}\text{t}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
316	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
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318	Search for direct pair production of supersymmetric partners to the $\tau^+\tau^-$ lepton in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
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326	Performance of the CMS cathode strip chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03018-T03018.	1.2	20
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328	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
329	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
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332	Search for $\overline{\text{t}}\text{tH}$ 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
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352	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	18
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358	Measurement of the Λ_{b}^0 lifetime in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	17
359	Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	17
360	Probing color coherence effects in pp collisions at $\sqrt{s} = 7, \text{TeV}$. <i>European Physical Journal C</i> , 2014, 74, 2901.	3.9	17

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368	Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{NN}} = 5.44$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
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377	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $e\mu$ pair in proton-proton collisions at $\sqrt{s} = 8-13$ TeV. European Physical Journal C, 2016, 76, 317.	3.9	16
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389	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
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398	Search for supersymmetry in pp collisions at $s = 13 \sqrt{s}=13$ 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
399	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
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416	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
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419	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
420	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
421	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
422	Jet properties in PbPb and pp collisions at $\sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
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428	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
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430	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	12
431	Phenomenological MSSM interpretation of CMS searches in pp collisions at $s = 7 \sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	12
432	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

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435	Search for dark matter produced in association with a Higgs boson decaying to $\tilde{\chi}^0_3$ or $\tilde{\chi}_\pm, \tilde{\chi}_\pm, \tilde{\chi}^\pm$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
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444	Measurement of the $Z\tilde{\chi}^0_3$ 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
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446	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $\sqrt{s}=8$ TeV using $H \rightarrow WW$ decays. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
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448	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
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452	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
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457	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
458	Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
459	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2018, 78, 242.	3.9	10
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462	Search for resonances decaying to a pair of Higgs bosons in the $b \bar{b} \rightarrow \text{q} \bar{\text{q}} \gamma \gamma$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
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465	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e^{\pm} \mu^{\pm}$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
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468	Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 688.	3.9	9

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469	Searches for $W\hat{\epsilon}^2$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
470	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
471	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2q$ final states at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
472	Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	8
473	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. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8
474	Dependence of inclusive jet production on the anti-kT distance parameter in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
475	Reconstruction of cosmic and beam-halo muons with the CMS detector. European Physical Journal C, 2008, 56, 449-460.	3.9	7
476	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	7
477	Search for high-mass $Z\hat{3}$ resonances in $e+e\hat{3}$ and $\hat{1}/4 + \hat{1}/4 \hat{3}$ final states in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	7
478	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 \hat{l} , leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
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481	Measurement of the cross section for production of $b \bar{b}$ decaying to muons in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	6
482	Comparison of the $Z/\hat{3} + \text{jets}$ to $\hat{3} + \text{jets}$ cross sections in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	6
483	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s}=7$ and 8 TeV. European Physical Journal C, 2015, 75, 302.	3.9	6
484	Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	6
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488	Determination of the strong coupling constant $\hat{\alpha}_S(m_Z)$ from measurements of inclusive $W\hat{\Delta}\pm$ 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
489	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.		6
490	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
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499	Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. , 2011, 2011, 1.		5
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507	Measurement of differential cross sections in the kinematic angular variable $\tilde{\tau}^*$ for inclusive Z boson production in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
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510	Search for W Boson Decays to Three Charged Pions. Physical Review Letters, 2019, 122, 151802.	7.8	4
511	The production of isolated photons in PbPb and pp collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
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513	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
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515	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
516	Search for $W\bar{t}t$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	3
517	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
518	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
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532	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
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534	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
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