

Stefano Colafranceschi

List of Publications by Year in descending order

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704
papers

47,165
citations

2669

95
h-index

3476

182
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715
all docs

715
docs citations

715
times ranked

12326
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61. Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS Experiments. Physical Review Letters, 2015, 114, 191803.	1.5	6,177
2	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV. European Physical Journal C, 2015, 75, 212.	2.9	1,062
3	Observation of long-range, near-side angular correlations in pPb collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 795-814.	1.4	541
4	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 2010, 1.	1.5	520
5	Determination of jet energy calibration and transverse momentum resolution in CMS. Journal of Instrumentation, 2011, 6, P11002-P11002.	0.5	508
6	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.4	499
7	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2012, 710, 26-48.	1.6	497
8	Combined results of searches for the standard model Higgs boson in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 26-48.	1.6	473
9	Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	0.5	467
10	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. Journal of Instrumentation, 2012, 7, P10002-P10002.	1.1	455
11	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2011, 84, .	0.5	418
12	Identification of b-quark jets with the CMS experiment. Journal of Instrumentation, 2013, 8, P04013-P04013.	0.5	410
13	Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of Instrumentation, 2015, 10, P06005-P06005.	2.9	400
14	Transverse-Momentum and Pseudorapidity Distributions of Charged Hadrons in pp Collisions at $\sqrt{s} = 7$ and 8 TeV. Physical Review Letters, 2010, 105, 022002.	13.7	390
15	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.	0.5	380
16	Description and performance of track and primary-vertex reconstruction with the CMS tracker. Journal of Instrumentation, 2014, 9, P10009-P10009.	1.4	369
17	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.	1.5	354
18	Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 213-240.		

#	ARTICLE	IF	CITATIONS
37	Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3149.	1.4	179
38	Evidence for Collective Multiparticle Correlations in p -Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2015, 115, 012301.	2.9	177

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#	ARTICLE	IF	CITATIONS
55	Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and $\sqrt{s_{NN}}$ collisions. Physical Review C, 2015, 92, .	1.1	140
56	Measurement of Long-Range Near-Side Two-Particle Angular Correlations in $\sqrt{s_{NN}}$ Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2016, 116, 172302.	2.9	139
57	Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	135
58	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 89, .	1.1	133
59	Studies of jet quenching using isolated-photon + jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 773-794.	1.5	130
60	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	129
61	Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 64-85.	1.5	129
62	Search for Dijet Resonances in $\sqrt{s_{NN}} = 7$ TeV Collisions at CMS. Physical Review Letters, 2010, 105, 211801.	2.9	126
63	Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy. Physical Review Letters, 2012, 108, 261803.	2.9	126
64	Measurement of the Inclusive Jet Cross Section in $\sqrt{s_{NN}}$ Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 107, 132001.	2.9	125
65	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	125
66	Evidence for the 125 GeV Higgs boson decaying to a pair of τ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	123
67	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	122
68	Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 719, 258247.	1.5	122
69	Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s_{NN}} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 484-518.	1.5	120
70	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	1.4	120
71	Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s_{NN}} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 68-90.	1.5	120
72	Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 123-142.	1.5	118

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73	Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 109, 171803.	2.9	118
74	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	118
75	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	117
76	Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the CMS detector. Physical Review D, 2013, 87, 014005.	1.6	115
77	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 171803.	2.9	114
78	Measurement of jet fragmentation in PbPb and pPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the CMS detector. Physical Review D, 2014, 90, 014005.	1.1	113
79	Measurement of the inclusive cross section for the production of a vector-like T quark with charge $\pm 2/3$ in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 171803.	1.5	112
80	Search for a vector-like T quark with charge $\pm 2/3$ in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 171803.	1.5	110
81	Search for a vector-like T quark with charge $\pm 2/3$ in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 171803.	1.6	108
82	Observation of the Associated Production of a Single Top Quark and a Higgs Boson in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 171803.	2.9	108
83	Azimuthal Anisotropy of Charged Particles in High Transverse Momentum in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 112, 171803.	1.6	107
84	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.	2.9	107
85	Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9$, 2.36, and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	106
86	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.	1.6	103
87	Missing transverse energy performance of the CMS detector. Journal of Instrumentation, 2011, 6, P09001-P09001.	0.5	102
88	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.	1.6	101
89	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.	1.6	100
90	Measurement of the prompt J/ψ production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 171803.		

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91	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.	1.4	98
92	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.	1.6	97
93	Measurement of the Electron Charge Asymmetry in Inclusive Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	2.9	97
94	Measurement of the Production in pp Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	2.9	95
95	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.	1.6	95
96	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8,$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	95
97	Measurement of $W+W\gamma$ production and search for the Higgs boson in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	2.9	94
98	Measurement of Inclusive Z Boson Production Cross Sections in pp Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	2.9	94
99	Measurement of the top quark mass using proton-proton data at $\sqrt{s} = 13$ TeV. Physical Review D, 2016, 93, 112004.	10.6	504
100	Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8$ TeV. Journal of Instrumentation, 2015, 10, P02006-P02006.	0.5	93
101	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.	1.6	92
102	Performance of τ, q -lepton reconstruction and identification in CMS. Journal of Instrumentation, 2012, 7, P01001-P01001.	0.5	91
103	First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 424-443.	1.5	90
104	Searches for new physics using θ_{eff} invariant mass distribution in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2013, 111, 211804.	2.9	90
105	Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	90
106	Search for dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 501-511.	1.5	90
107	Measurement of the Z boson production cross section in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.5	89
108	Measurement of the Z boson production cross section in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2011, 83, 112004.	1.6	88

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109	Measurement of the W boson production cross section at $\sqrt{s} = 8$ TeV in proton-proton collisions at the LHC. <i>Physics Letters B</i> , 2013, 722, 5-27.	1.5	88
110	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 8$ TeV. <i>Physics Letters B</i> , 2013, 722, 5-27.	1.5	87
111	Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 749, 560-582.	1.5	87
112	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 147.	1.4	88
113	Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 749, 560-582.	1.5	87
114	Angular analysis of the decay $B \rightarrow K^* \ell^+ \ell^-$ from pp collisions at $\sqrt{s} = 8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 753, 424-448.	1.5	87
115	Coherent J/ψ photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the CMS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 772, 489-511.	1.7	87
116	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	85
117	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. <i>Science</i> , 2012, 338, 1569-1575.	6.0	85
118	Evidence of b -jet Quenching in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Physical Review Letters</i> , 2014, 113, 132301.	2.9	85
119	Study of double parton scattering using $W + 2$ -jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	85
120	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	85
121	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2014, 74, 2847.	1.4	85
122	Reconstruction and identification of $\tilde{\tau}$, lepton decays to hadrons and $\tilde{\tau} \rightarrow \tau + \tilde{\chi}_0^0$ at CMS. <i>Journal of Instrumentation</i> , 2016, 11, P01019-P01019.	0.5	85
123	Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	83
124	Study of W boson production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 772, 489-511.	1.6	83
125	Measurement of the differential cross section and charge asymmetry for inclusive $p \rightarrow W + X$ production at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 469.	1.4	83
126	Measurement of the differential cross section and charge asymmetry for inclusive $p \rightarrow W + X$ production at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 469.	1.4	83

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127	Measurement of the $\langle \mathcal{A}_{FB}^{\tau} \rangle$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	2.9	82
128	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.	1.4	82
129	J/ψ and $\bar{\chi}(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	81
130	Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.5	81
131	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	81
132	Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	81
133	Measurement of the $\langle \mathcal{A}_{FB}^{\tau} \rangle$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	2.9	80
134	Study of Z boson production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.	2.9	80
135	Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets. Physical Review Letters, 2015, 114, 051801.	2.9	80
136	Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 28-49.	1.5	79
137	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	78
138	Determination of the top-quark pole mass and strong coupling constant from the Z boson production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 171801.	2.9	76
139	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	77
140	Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 200-224.	1.5	77
141	Measurements of the $\langle \mathcal{A}_{FB}^{\tau} \rangle$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.5	76
142	Search for Top-Quark Partners with Charge in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 171801.	2.9	76
143	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.	1.6	75
144	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1.	1.4	75

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145	Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in $pp \rightarrow \tau\tau + \text{Higgs} + \text{jet(s)}$ Collisions at $\sqrt{s} = 8 \text{ TeV}$ and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	2.9	74
146	Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	1.4	74
147	Search for Narrow Resonances in Dijet Final States at $\sqrt{s} = 8 \text{ TeV}$ and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	2.9	74
148	Suppression of $\tilde{t}(1S)$, $\tilde{t}(2S)$, and $\tilde{t}(3S)$ quarkonium states in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 357-379.	1.5	74
149	Measurement of the $X(3872)$ production cross section via decays to $J/\psi \bar{\nu} + \bar{\nu} \hat{\nu}$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
150	Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2015, 91, .	1.6	73
151	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.	1.4	73
152	Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2016, 94, .	1.6	73
153	Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 8 \text{ TeV}$ and $\sqrt{s} = 13 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 774, 180-182.	2.9	73
154	Search for vectorlike charge $\sqrt{s} = 8 \text{ TeV}$ in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$		

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163	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7, \text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	68
164	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.	1.4	68
165	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	1.6	68
166	Search for heavy Majorana neutrinos in $pp \rightarrow \ell^+ \ell^- + \text{jets}$ events in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, 2015, 347, 186.	1.5	68
167	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.	1.4	68
168	Search for a standard model-like Higgs boson in the $pp \rightarrow \ell^+ \ell^- + \text{jets}$ channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 434-453.	1.5	67
169	Measurement of the differential cross section for isolated prompt photon production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Physical Review D, 2011, 84, 112001.	1.6	65
170	Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	65
171	Search for microscopic black hole signatures at the Large Hadron Collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 434-453.	1.5	65
172	Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$. Physical Review Letters, 2012, 108, 252002.	2.9	65
173	Observation of a New $\Lambda(1520)$ Baryon. Physical Review Letters, 2012, 108, 252002.	2.9	65
174	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2014, 74, 3129.	1.4	65
175	Measurement of the sum of WW and WZ production with W +dijet events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2013, 73, 2283.	1.4	64
176	Search for Flavor-Changing Neutral Currents in Top-Quark Decays $t \rightarrow c + \text{jet}$. Physical Review Letters, 2012, 108, 111801.	2.9	64
177	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2016, 76, 439.	1.4	64
178	Search for narrow resonances in dilepton mass spectra in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 158-179.	1.5	64
179	Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider. Physical Review Letters, 2012, 108, 111801.	2.9	63
180	Measurements of $pp \rightarrow \ell^+ \ell^- + \text{jets}$ Spin Correlations and Top-Quark Polarization Using Dilepton Final States in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$. Physical Review Letters, 2012, 108, 111801.	2.9	63

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181	Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 98-119.	1.5	63
182	Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 187-209.	1.5	63
183	Measurement of the Z boson production cross section in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 187-209.	2.9	62
184	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
185	Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 284-306.	2.9	62
186	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.	1.4	62
187	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.	1.4	62
188	Measurement of the Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	2.9	62
189	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.	1.6	62
190	Measurement of the Production Cross Section in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 98-119.	2.9	61
191	Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2013, 110, 022003.	2.9	61
192	Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	61
193	Search for pair production of third-generation scalar leptosquarks and top squarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 98-119.	1.6	61
194	Search for resonant production of a single top quark and W boson in pp collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2013, 110, 022003.	2.9	60
195	Dijet Azimuthal Decorrelations in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review Letters, 2017, 119, 152301.	2.9	60
196	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, 13.	1.4	60
197	Performance and operation of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03010-T03010.	0.5	59

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201	Measurement of inclusive jet cross sections in $\sqrt{s} = 7$ TeV pp collisions. Journal of High Energy Physics, 2011, 2011, 1.	2.9	59
202	A search for pair production of new light bosons decaying into muons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 146-168.	1.5	59
203	Measurement of inclusive jet cross sections in $\sqrt{s} = 7$ TeV pp collisions. Physical Review Letters, 2011, 106, 112301.	1.1	59
204	Search for anomalous $t\bar{t}$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58
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206	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	1.6	58
207	Interpretation of searches for supersymmetry with simplified models. Physical Review D, 2013, 88, .	1.6	58
208	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.	1.4	58
209	Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. Journal of Instrumentation, 2010, 5, T03014-T03014.	0.5	57
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218	Measurement of the ratio of inclusive jet cross sections using the anti- k algorithm with radius parameters R and Event activity dependence of Y (nS) production in $\sqrt{s} = 5.02$ TeV pp and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	56
219	Search for heavy long-lived charged particles in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 408-433.	1.4	55
220	Measurement of masses in the \overline{tt} system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2494.	1.4	55
221	Limits on the Higgs boson lifetime and width from its decay to four charged leptons. Physical Review D, 2015, 92, .	1.6	55
222	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.	1.4	55
223	Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 13$ TeV and combination with 8 TeV data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 57-80.	2.9	54
224	Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 243-270.	1.5	54
225	Measurement of the T jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201-204.	2.9	54
226	Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 243-270.	1.5	54
227	Measurement of the T jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201-204.	2.9	54

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236	Measurement of prompt and nonprompt \mathcal{J}/ψ production in $p\bar{p}$ collisions in $p\bar{p}$ and $p\bar{p}$ collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	1.4	53
237	Performance of CMS muon reconstruction in cosmic-ray events. Journal of Instrumentation, 2010, 5, T03022-T03022.	0.5	52
238	Measurement of the $pp \rightarrow ZZ$ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 459.	1.5	52
239	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.	1.4	52
240	Measurements of the $pp \rightarrow Z\gamma$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	1.4	52
241	Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC. Physical Review D, 2011, 84, .	1.6	51
242	Searches for heavy Higgs bosons in two-Higgs-doublet models and for $h \rightarrow \gamma\gamma$ decay using multilepton and diphoton final states in pp collisions at 8 TeV. Physical Review D, 2014, 90, .	1.6	51
243	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	1.6	51
244	First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572.	1.4	50
245	Search for $B_s \rightarrow \tau^+ \tau^-$ and $B \rightarrow \tau^+ \tau^-$ Decays in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 1501802.	1.6	50
246	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.	1.6	50
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248	First Measurement of Bose-Einstein Correlations in Proton-Proton Collisions at $\sqrt{s} = 0.9$ and 2.36 TeV at the LHC. Physical Review Letters, 2010, 105, 032001.	2.9	49
249	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.	1.6	49
250	Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy. Physical Review Letters, 2012, 109, 071803.	2.9	49
251	Search for leptonic decays of $W \rightarrow e\bar{e}$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	49
252	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.	1.4	49

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254	Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 187-206.	1.6	48
255	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.	1.6	48
256	Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	48
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258	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.	2.9	47
259	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.	1.6	47
260	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2013, 111, 221801.	1.5	47
261	Search for Top Squarks in Parity-Violating Supersymmetry Using Three or More Leptons and Prompt Jets. Physical Review Letters, 2013, 111, 221801.	2.9	47
262	Measurement of Prompt Jets in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2013, 111, 221801.	2.9	47
263	Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 94, .	1.6	47
264	Measurement of the Polarization of W Bosons with Large Transverse Momenta in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 021802.	2.9	46
265	Measurement of the Polarization of W Bosons with Large Transverse Momenta in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 021802.	2.9	46

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273	Angular analysis and branching fraction measurement of the decay $B \rightarrow K^* \mu^+ \mu^-$ and $B \rightarrow K^* \mu^+ \mu^-$ in proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 207-232.	1.5	45
274	Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 77-100.	1.5	45
275	Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton collisions at 7 TeV . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 207-232.	1.5	45
276	Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 77-100.	2.9	45
277	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.	2.9	45
278	Pseudorapidity distribution of charged hadrons in proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 143-163.	1.5	45
279	Search for neutral resonances decaying into a Z boson and a pair of b jets or τ , leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 369-394.	1.5	45
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281	Search for microscopic black holes in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	1.6	44
282	Inclusive Search for Supersymmetry Using Razor Variables in pp Collisions at $\sqrt{s} = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 745, 1-12.	2.9	44
283	Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1-37.	2.9	44
284	Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1-37.	1.6	44
285	Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters. Physical Review Letters, 2015, 114, 061801.	2.9	44
286	Search for decays of stopped long-lived particles produced in proton collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 151.	1.4	44
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290	Search for pair-produced dijet resonances in four-jet final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060.	2.9	43
291	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.	1.4	43
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293	Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$. Physical Review D, 2015, 92, .	1.6	43
294	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.	1.4	43
295	Search for pair production of first and second generation leptoquarks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 93, .	1.6	43
296	Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 102-124.	1.5	43
297	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.	1.4	42
298	Study of W boson production in pPb collisions at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 565-586.	1.5	42
299	Evidence for exclusive $\tilde{\chi}_1^0 \tilde{\chi}_1^0 W^+ W^-$ 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.	1.6	42
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301	Search for Quark Compositeness with the Dijet Centrality Ratio in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060.	2.9	41
302	Search for Stopped Gluinos in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2011, 106, 011801.	2.9	41
303	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.	1.6	41
304	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.	1.6	41
305	Search for fractionally charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2013, 87, .	1.5	41
306	Search for fractionally charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2013, 87, .	1.6	41

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307	Search for pair-produced vectorlike quarks in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2016, 2016, 1.	1.6	41
308	Measurement of the $t\bar{t}\hat{A}$ production cross section in the $e\hat{1}/4$ channel in proton-proton collisions at $s = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	41
309	Measurement of the $t\bar{t}\hat{A}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 128.	1.4	41
310	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 $s = 13$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	41
311	Search for same-sign top-quark pair production at $\sqrt{s} = 7$ TeV and limits on flavour changing neutral currents in the top sector. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	40
312	Measurement of four-jet production in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2014, 89, .	1.6	40
313	Measurement of the $t\bar{t}\hat{A}$ production cross section using events in the $e\hat{1}/4$ final state in pp collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2017, 77, 172.	1.4	40
314	Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 775, 1-24.	1.5	40
315	Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2017, 119, 221802.	2.9	40
316	Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. <i>Physical Review Letters</i> , 2018, 120, 071802.	2.9	40
317	Measurement of $W\hat{1}^3$ and $Z\hat{1}^3$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 701, 535-555.	1.5	39
318	Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	39
319	Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	39
320	Measurement of the $Z\hat{1}^3$ b-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	39
321	Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	39
322	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $s = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	39
323	Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 772, 752-776.	1.6	39
324	Measurement of the charge ratio of atmospheric muons with the CMS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 692, 83-104.	1.5	38

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344	Search for Monotop Signatures in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2015, 114, 101801.	2.9	36
345	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b} \rightarrow \gamma\gamma$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	36
346	Commissioning and performance of the CMS pixel tracker with cosmic ray muons. Journal of Instrumentation, 2010, 5, T03007-T03007.	0.5	35
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348	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2758.	1.6	35
349	Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2758.	1.4	35
350	Search for heavy Majorana neutrinos in $e^+e^- \rightarrow \tau^+\tau^-$ jets and $e^+e^- \rightarrow \tau^+\tau^-$ jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	35
351	Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 103-129.	1.5	35
352	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2017, 119, 111802.	2.9	35
353	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	35
354	Time reconstruction and performance of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03011-T03011.	0.5	34
355	Search for Three-jet Resonances in pp Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2011, 107, 101801.	2.9	34
356	Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	34
357	Search for microscopic black holes in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	34
358	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 \hat{t} . Journal of High Energy Physics, 2013, 2013, 1.	1.6	34
359	Search for a $Z \rightarrow b\bar{b}$ resonance decaying to a bottom quark and a top quark in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 101801.	1.5	34
360	Search for $Z \rightarrow b\bar{b}$ resonances decaying to $t\bar{t}$ final states in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, .	1.6	34

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362	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.	1.6	34
363	Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at 8 TeV. Physical Review Letters, 2016, 116, 052002.	1.5	34
364	Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at 8 TeV. Physical Review Letters, 2016, 116, 052002.	2.9	34
365	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.	1.4	34
366	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.	1.4	34
367	Measurement of the cross section for electroweak production of $Z\ell^+\ell^-$ in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 380-402.	1.5	34
368	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.	1.4	33
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429	Search for new physics in the production of $\overline{\text{t}}\text{t}$ pairs produced in association with a $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:msqrt="http://www.w3.org/1998/Math/MathML" xmlns:mrow="http://www.w3.org/1998/Math/MathML" xmlns:mi="http://www.w3.org/1998/Math/MathML" xmlns:mo="http://www.w3.org/1998/Math/MathML" xmlns:mfrac="http://www.w3.org/1998/Math/MathML" xmlns:mtable="http://www.w3.org/1998/Math/MathML" xmlns:mtr="http://www.w3.org/1998/Math/MathML" xmlns:mtd="http://www.w3.org/1998/Math/MathML" xmlns:mtext="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" > </mml:msqrt> </mml:mi> s </mml:mi> </mml:mrow> </mml:msqrt> </mml:mo> = </mml:mo> </mml:mfrac> 8 </mml:mfrac> </mml:mtable> </mml:mtr> </mml:mtd> </mml:mtext> TeV </mml:mtext> </mml:math> . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 512-534.$	1.5	25
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