

Richard John Hall-Wilton

List of Publications by Year in descending order

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Version: 2024-02-01

717
papers

50,345
citations

2203

99
h-index

2812

191
g-index

727
all docs

727
docs citations

727
times ranked

13519
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.	1.5	6,177
2	The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004.	0.5	2,192
3	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	2.9	1,062
4	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV. European Physical Journal C, 2015, 75, 212.	1.4	541
5	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.	1.5	520
6	Determination of jet energy calibration and transverse momentum resolution in CMS. Journal of Instrumentation, 2011, 6, P11002-P11002.	0.5	508
7	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.4	499
8	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	1.6	497
9	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.	1.1	455
10	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. Journal of Instrumentation, 2012, 7, P10002-P10002.	0.5	467
11	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2011, 84, .	1.1	455
12	Identification of b-quark jets with the CMS experiment. Journal of Instrumentation, 2013, 8, P04013-P04013.	0.5	418
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.	0.5	410
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.	2.9	400
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.	13.7	390
16	Description and performance of track and primary-vertex reconstruction with the CMS tracker. Journal of Instrumentation, 2014, 9, P10009-P10009.	0.5	380
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.	1.4	369
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.	1.5	354

#	ARTICLE	IF	CITATIONS
37	Constraints on the spin-parity and anomalous HV couplings of the Higgs boson in proton collisions at 7 and 8 TeV. Physical Review D, 2015, 92, .	1.6	185
38	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	181
39	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
40	Evidence for Collective Multiparticle Correlations in Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2015, 115, 012301.	2.9	177
41			

#	ARTICLE	IF	CITATIONS
55	Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 403-425.	1.5	148
56	Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\hat{\Lambda}_{\pm}$ T and b-quark multiplicity in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2013, 73, 2568.	1.4	147
57	Modification of jet shapes in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 243-263.	1.5	144
58	Measurement of deeply virtual Compton scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 573, 46-62.	1.5	143
59	Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 7$ TeV. Journal of Instrumentation, 2013, 8, P09009-P09009.	0.5	140
60	Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and Pb collisions. Physical Review C, 2015, 92, .	1.1	140
61	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	139
62	Measurement of Long-Range Near-Side Two-Particle Angular Correlations in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2016, 116, 172302.	2.9	139
63	Measurement of D^* production and the charm contribution to F_2 in deep inelastic scattering at HERA. European Physical Journal C, 2000, 12, 35-52.	1.4	135
64	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
65	Measurement of the diffractive cross section in deep inelastic scattering using ZEUS 1994 data. European Physical Journal C, 1999, 6, 43-66.	1.4	133
66	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 89, .	1.5	133
67	Comparison of ZEUS data with standard model predictions for $e^+p \rightarrow e^+X$ scattering at high Q^2 . Zeitschrift für Physik C-Particles and Fields, 1997, 74, 207-220.	1.5	131
68	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
69	Measurement of the proton structure function F_2 and at low and very low x at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 407, 432-448.	1.5	129
70	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
71	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
72	B4C thin films for neutron detection. Journal of Applied Physics, 2012, 111, .	1.1	128

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73	Search for Dijet Resonances in 7 TeV pp Collisions at CMS. Physical Review Letters, 2010, 105, 211801.	2.9	126
74	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
75	Measurement of the Inclusive Jet Cross Section in pp Collisions at $\sqrt{s} = 7\text{ TeV}$. Physical Review Letters, 2011, 107, 132001.	2.9	125
76	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7\text{ TeV}$. European Physical Journal C, 2013, 73, 1.	1.4	125
77	Evidence for the 125 GeV Higgs boson decaying to a pair of $\tilde{l}, \tilde{\nu}$, leptons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	123
78	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	122
79	Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 68-90.	1.5	122
80	Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 494-519.	1.5	120
81	The performance of the CMS muon detector in proton-proton collisions at $\sqrt{s} = 7\text{ TeV}$ at the LHC. Journal of Instrumentation, 2013, 8, P11002-P11002.	0.5	119
82	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
83	Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at $\sqrt{s} = 7\text{ TeV}$. Physical Review Letters, 2012, 109, 171803.	2.9	118
84	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
85	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	117
86	Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s} = 7\text{ TeV}$. Physical Review Letters, 2010, 105, 211801.	1.6	115
87	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s} = 7\text{ TeV}$. Physical Review Letters, 2016, 116, 071801.	2.9	114
88	Observation of a peaking structure in the $B \rightarrow J/\psi \ell \bar{\ell}$ mass spectrum from pp collisions at $\sqrt{s} = 7\text{ TeV}$. Physical Review Letters, 2016, 116, 071801.	1.1	113
89	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	1.5	112
90			

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91	<p>Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at $\sqrt{s} = 2.76$ and 7 TeV. <i>Journal of High Energy Physics</i>, 2014, 729, 149-171.</p>	1.5	110
92	<p>Azimuthal Anisotropy of Charged Particles at High Transverse Momenta in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Physical Review Letters</i>, 2012, 109, 022301.</p>	1.6	108
93	<p>Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36, \text{ and } 7$ TeV. <i>Journal of High Energy Physics</i>, 2011, 2011, 1.</p>	2.9	108
94	<p>An NLO QCD analysis of inclusive cross-section and jet-production data from the ZEUS experiment. <i>European Physical Journal C</i>, 2005, 42, 1-16.</p>	1.6	106
95	<p>Missing transverse energy performance of the CMS detector. <i>Journal of Instrumentation</i>, 2011, 6, P09001-P09001.</p>	0.5	102
96	<p>Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i>, 2014, 2014, 1.</p>	1.6	100
97	<p>Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Journal of High Energy Physics</i>, 2011, 2011, 1.</p>	1.6	99
98	<p>Measurement of the prompt J/ψ and Υ production in pp collisions at $\sqrt{s} = 2.76$ and 7 TeV. <i>Physical Review Letters</i>, 2012, 109, 022301.</p>		
99			
100			

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109	Measurement of the top quark mass using proton-proton data at $\sqrt{s} = 8$ TeV. <i>Physical Review D</i> , 2016, 93, 074004.	10.6	50737
110	Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8$ TeV. <i>Journal of Instrumentation</i> , 2015, 10, P02006-P02006.	0.5	93
111	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	92
112	production in deep inelastic scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 407, 402-418.	1.5	91
113	Performance of τ , q -lepton reconstruction and identification in CMS. <i>Journal of Instrumentation</i> , 2012, 7, P01001-P01001.	0.5	91
114	A very intense neutrino super beam experiment for leptonic CP violation discovery based on the European spallation source linac. <i>Nuclear Physics B</i> , 2014, 885, 127-149.	0.9	91
115	First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 695, 424-443.	1.5	90
116	Searches for new physics using χ^2 -invariant mass distribution in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2013, 111, 211804.	2.9	90
117	Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review D</i> , 2015, 91, 074004.	1.6	90
118	The instrument suite of the European Spallation Source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 957, 163402.	0.7	90
119	Search for a Higgs boson decaying into a Z and a photon in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2015, 115, 251801.	1.5	89
120	Upsilon production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2015, 115, 251801.	1.6	88
121	Measurement of the W production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2015, 115, 251801.	1.5	88
122	Measurement of the W production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2015, 115, 251801.	1.5	88
123	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 722, 5-27.	1.5	88
124	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
125	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
126	Angular analysis of the decay $B \rightarrow K^* \mu^+ \mu^-$ 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

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127	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.	6.0	85
128	Evidence of $b\bar{b}$ -Jet Quenching in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 113, 132301.	2.9	85
129	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.	1.6	85
130	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
131	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 2847.	1.4	85
132	Reconstruction and identification of \tilde{l}, \tilde{l}^* lepton decays to hadrons and $\tilde{l}^* \rightarrow \tilde{l} + \gamma$ at CMS. Journal of Instrumentation, 2016, 11, P01019-P01019.	0.5	85
133	Measurement of the single-top-quark t -channel cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	83
134	Study of W boson production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 349, 132-137.	1.5	83
135	Measurement of the W boson production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	83
136	Measurement of the W boson production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	2.9	82
137	J/ψ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	81
138	Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.5	81
139	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
140	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
141	Measurement of the $B \rightarrow B^* \gamma$ Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 212301.	2.9	80
142	Study of Z Boson Production in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.	2.9	80
143	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
144	Search for single-top production in ep collisions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 559, 153-170.	1.5	79

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145	Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 709, 28-49.	1.5	79
146	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	78
147	Study of deep inelastic inclusive and diffractive scattering with the ZEUS forward plug calorimeter. <i>Nuclear Physics B</i> , 2005, 713, 3-80.	0.9	77
148	Determination of the top-quark pole mass and strong coupling constant from the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2014, 112, 171801.	1.5	76
149	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	77
150	Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 742, 200-224.	1.5	77
151	Measurements of the $t\bar{t}$ charge asymmetry in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2014, 112, 171801.	1.5	76
152	Search for Top-Quark Partners with Charge $\pm 2/3$ in the Same-Sign Dilepton Final State. <i>Physical Review Letters</i> , 2014, 112, 171801.	2.9	76
153	Study of exclusive two-photon production of $W+W\bar{a}^{\sim}$ in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	75
154	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2014, 74, 1.	1.4	75
155	Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2014, 112, 171801.	2.9	74
156	Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , 2016, 76, 401.	1.4	74
157	Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \bar{\psi}\psi$ in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	73
158	Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review D</i> , 2015, 91, 1.	1.6	73
159	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. <i>European Physical Journal C</i> , 2015, 75, 251.	1.4	73
160	Search for vectorlike charge $\pm 2/3$ top quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2015, 115, 231801.		

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163	Measurement of the t-channel single-top-quark production cross section in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	2.9	70
164	Search for anomalous production of events with three or more leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	70
165	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.	1.6	70
166	Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	70
167	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	1.6	69
168	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	69
169	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	68
170	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
171	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.	1.6	68
172	Search for heavy Majorana neutrinos in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.5	68
173	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.	1.4	68
174	Search for a standard model-like Higgs boson in the $pp \rightarrow \gamma\gamma$ channel at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.5	67
175	Inclusive-jet and dijet cross sections in deep inelastic scattering at HERA. Nuclear Physics B, 2007, 765, 1-30.	0.9	65
176	Measurement of the differential cross section for isolated prompt photon production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2011, 84, .	1.6	65
177	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.	1.6	65
178	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
179	Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	2.9	65
180	Observation of a New Baryon. Physical Review Letters, 2012, 108, 252002.	2.9	65

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181	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.	1.4	65
182	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.	1.4	64
183	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.	1.4	64
184	Measurement of the diffractive structure function F ₂ D(4) at HERA. European Physical Journal C, 1998, 1, 81-96.	1.4	63
185	Search for narrow resonances in dilepton mass spectra in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 156-179.	2.9	63
186	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
187	Spin Correlations and Top-Quark Polarization Using Dilepton Final States in pp Collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 156-179.	2.9	63
188	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
189	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
190	Exclusive electroproduction of ρ^0 and ψ mesons at HERA. European Physical Journal C, 1999, 6, 603-627.	1.4	62
191	Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 156-179.	2.9	62
192	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
193	Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 284-296.	2.9	62
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205	Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 132002.	2.9	60
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207	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, 1-13.	2.9	60
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292	Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37.	2.9	44
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296	Search for lepton flavour violating decays of the Higgs boson to $e\bar{\nu}_\mu$ and $\nu_e\bar{\nu}_\mu$ in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 472-500.	1.5	44
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310	Search for Stopped Gluinos in Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2011, 106, 011801.	2.9	41
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315	Search for pair-produced vectorlike quarks in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 87, 032001.	1.6	41
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323	Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	39
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330	Measurement of beauty production in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 599, 173-189.	1.5	38
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338	Measurement of the $b\bar{b}$ cross section and the $\tau^+\tau^-$ production cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.5	37
339	Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 735, 204-225.	1.5	37
340	Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 735, 204-225.	1.5	37
341	Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 735, 204-225.	1.6	37
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364	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} . <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	34
365	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. <i>Physical Review D</i> , 2013, 87, .	1.5	34
366	Search for $Z \rightarrow b\bar{b}$ resonances decaying to dilepton+jet final states in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2013, 87, .	1.6	34
367	Search for anomalous quartic gauge couplings and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2013, 87, .	1.6	34
368	Searches for supersymmetry using the M_{T2} variable in hadronic events produced in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	34
369	Search for $Z \rightarrow b\bar{b}$ resonances decaying to dilepton+jet final states in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2013, 87, .	1.5	34
370	Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2016, 116, 052002.	2.9	34
371	Measurement of the $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 379.	1.4	34
372	Measurements of the $t\bar{t}$ production cross section in lepton+jet final states in pp collisions at $\sqrt{s} = 8$ TeV and ratio of 8 to 7 TeV cross sections. <i>European Physical Journal C</i> , 2017, 77, 15.	1.4	34
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374	Leading proton production in $e+p$ collisions at HERA. <i>Nuclear Physics B</i> , 2003, 658, 3-46.	0.9	33
375	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	33
376	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	33
377	10B multi-grid proportional gas counters for large area thermal neutron detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 720, 116-121.	0.7	33
378	Search for narrow high-mass resonances in proton-proton collisions at $\sqrt{s} = 8$ TeV decaying to a Z and a Higgs boson. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 748, 255-277.	1.5	33

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380	Dijet production in neutral current deep inelastic scattering at HERA. European Physical Journal C, 2002, 23, 13-27.	1.4	32
381	Measurement of charm fragmentation ratios and fractions in photoproduction at HERA. European Physical Journal C, 2005, 44, 351-366.	1.4	32
382	Measurement of $\overline{B}B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7, \text{TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	32
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384	Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	32
385	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	1.6	32
386	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.	1.4	32
387	Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 564-586.	1.5	32
388	Alignment of the CMS tracker with LHC and cosmic ray data. Journal of Instrumentation, 2014, 9, P06009-P06009.	0.5	32
389	Measurements of the $Z Z$ production cross sections in the $2\mu 2l$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV . European Physical Journal C, 2015, 75, 511.	1.4	32
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393	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	1.6	31
394	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.	1.4	31
395	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.	1.6	31
396	Measurement of diffractive photoproduction of vector mesons at large momentum transfer at HERA. European Physical Journal C, 2000, 14, 213-238.	1.4	30

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398	Search for a heavy bottom-like quark in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.5	30
399	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
400	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow q\bar{q}$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
401	Measurement of the W-boson helicity in top-quark decays from $W \rightarrow \ell\nu$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	30
402	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	1.6	30
403	Search for massive WH resonances decaying into the $W \rightarrow b\bar{b}$ final state at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 237.	1.4	30
404	Measurement of the CP-violating weak phase β_s and the decay width difference Γ_{12}^s using the $B \rightarrow K^* \mu^+ \mu^-$ decay. Journal of High Energy Physics, 2015, 2015, 1.	1.5	30
405	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	1.5	30
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