

Richard John Hall-Wilton

List of Publications by Year in descending order

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717
papers

50,345
citations

2215

99
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191
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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.	4.1	6,177
2	The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004.	1.2	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	7.8	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.	3.9	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.	4.1	520
6	Determination of jet energy calibration and transverse momentum resolution in CMS. Journal of Instrumentation, 2011, 6, P11002-P11002.	1.2	508
7	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	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.	4.7	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.	4.7	477
10	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. Journal of Instrumentation, 2012, 7, P10002-P10002.	1.2	467
11	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2011, 84, .	2.9	455
12	Identification of b-quark jets with the CMS experiment. Journal of Instrumentation, 2013, 8, P04013-P04013.	1.2	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.	1.2	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.	7.8	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.	27.8	390
16	Description and performance of track and primary-vertex reconstruction with the CMS tracker. Journal of Instrumentation, 2014, 9, P10009-P10009.	1.2	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.	3.9	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.	4.1	354

#	ARTICLE	IF	CITATIONS
37	Constraints on the spin-parity and anomalous couplings of the Higgs boson in proton collisions at 7 and 8 TeV. Physical Review D, 2015, 92, .	4.7	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.	3.9	181
39	Search for heavy neutrinos and W bosons with right-handed couplings in proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3149.	3.9	179
40	Evidence for Collective Multiparticle Correlations in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2015, 115, 012301.	7.8	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.	4.1	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.	3.9	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.	4.1	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.	4.1	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.	1.2	140
60	Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and Pb collisions. Physical Review C, 2015, 92, .	2.9	140
61	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	139
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.	7.8	139
63	Measurement of D^{\ast} production and the charm contribution to F_2 in deep inelastic scattering at HERA. European Physical Journal C, 2000, 12, 35-52.	3.9	135
64	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
65	Measurement of the diffractive cross section in deep inelastic scattering using ZEUS 1994 data. European Physical Journal C, 1999, 6, 43-66.	3.9	133
66	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 89, .	3.9	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.	4.1	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.	4.1	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.	3.9	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.	4.1	129
72	B4C thin films for neutron detection. Journal of Applied Physics, 2012, 111, .	2.5	128

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73	Search for Dijet Resonances in 7 TeV Collisions at CMS. Physical Review Letters, 2010, 105, 211801.	7.8	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.	7.8	126
75	Measurement of the Inclusive Jet Cross Section in pp Collisions at $\sqrt{s} = 7\text{ TeV}$. Physical Review Letters, 2011, 107, 132001.	7.8	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.	3.9	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.	4.7	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.	4.7	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, 2015, 750, 494-519.	4.1	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, 2012, 713, 68-90.	4.1	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.	1.2	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.	4.1	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.	7.8	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.	4.7	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.	4.7	117
86	Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s} = 7\text{ TeV}$. Physical Review Letters, 2010, 105, 211801.	4.7	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.	7.8	114
88	Observation of a peaking structure in the $B \rightarrow J\tilde{l}\tilde{\nu}$ mass spectrum from pp collisions at $\sqrt{s} = 7\text{ TeV}$. Physical Review Letters, 2016, 116, 071801.	2.9	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.	4.1	112
90			

#	ARTICLE	IF	CITATIONS
91	Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2014, 729, 149-171.	4.1	110
92	Azimuthal Anisotropy of Charged Particles at High Transverse Momenta in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2012, 109, 022301.	4.7	108
93	Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36, \text{ and } 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	7.8	108
94	An NLO QCD analysis of inclusive cross-section and jet-production data from the ZEUS experiment. European Physical Journal C, 2005, 42, 1-16.	7.8	108
95	Missing transverse energy performance of the CMS detector. Journal of Instrumentation, 2011, 6, P09001-P09001.	4.7	106
96	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.	3.9	103
97	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.2	102
98	Measurement of the prompt J/ψ and Υ production in pp collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2012, 109, 022301.	4.7	100
100			

#	ARTICLE	IF	CITATIONS
109	Measurement of the top quark mass using proton-proton data at $\sqrt{s} = 8$ TeV. <i>Physical Review D</i> , 2016, 93, 014005.	10.7	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.	1.2	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.	4.7	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.	4.1	91
113	Performance of τ , q -lepton reconstruction and identification in CMS. <i>Journal of Instrumentation</i> , 2012, 7, P01001-P01001.	1.2	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.	2.5	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.	4.1	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.	7.8	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, 014005.	4.7	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.	1.6	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> , 2011, 106, 231801.	4.1	89
120	Upsilon production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2011, 106, 231801.	4.7	88
121	Measurement of the W production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2011, 106, 231801.	4.1	88
122	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.	4.1	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.	4.1	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.	3.9	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.	4.1	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.	4.1	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.	12.6	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.	7.8	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.	4.7	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.	4.7	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.	3.9	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.	1.2	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.	4.7	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, 347, 297-300.	4.1	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.	4.7	83
136	Search for $\tilde{l}^* \rightarrow \tilde{l} + \gamma$ decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	7.8	82
137	J/ψ and $\tilde{\chi}(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	81
138	Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.1	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.	4.7	81
140	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
141	Measurement of the $B \rightarrow B^* \gamma$ Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 212301.	7.8	80
142	Study of Z Boson Production in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.	7.8	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.	7.8	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.	4.1	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. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 28-49.	4.1	79
146	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
147	Study of deep inelastic inclusive and diffractive scattering with the ZEUS forward plug calorimeter. Nuclear Physics B, 2005, 713, 3-80.	2.5	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. Journal of High Energy Physics, 2014, 2014, 1.	4.1	77
149	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
150	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.	4.1	77
151	Measurements of the $t\bar{t}$ charge asymmetry in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 171801.	4.1	76
152	Search for Top-Quark Partners with Charge $\pm 2/3$ in $t\bar{t}$ Production. Physical Review Letters, 2014, 112, 171801.	7.8	76
153	Search for Top-Quark Partners with Charge $\pm 2/3$ in $t\bar{t}$ Production. Physical Review Letters, 2014, 112, 171801.	4.7	75
154	Study of exclusive two-photon production of $W+W\bar{a}$ in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	75
155	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
156	Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 171801.	7.8	74
157	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
158	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
159	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. Physical Review D, 2015, 91, 115011.	4.7	73
160	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
160	Search for vectorlike charge $\pm 2/3$ top quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 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.	7.8	70
164	Search for anomalous production of events with three or more leptons in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 90, .	4.7	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.	4.7	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. Physical Review D, 2015, 91, .	4.7	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.	4.7	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.	4.7	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.	4.7	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.	3.9	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.	4.7	68
172	Search for heavy Majorana neutrinos in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2015, 91, .	4.1	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.	3.9	68
174	Search for a standard model-like Higgs boson in the $pp \rightarrow \gamma\gamma$ channel at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 184-207.	4.1	67
175	Inclusive-jet and dijet cross sections in deep inelastic scattering at HERA. Nuclear Physics B, 2007, 765, 1-30.	2.5	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, .	4.7	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.	4.7	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.	4.1	65
179	Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 90, .	7.8	65
180	Observation of a New Baryon. Physical Review Letters, 2012, 108, 252002.	7.8	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.	3.9	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.	3.9	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.	3.9	64
184	Measurement of the diffractive structure function F ₂ D(4) at HERA. European Physical Journal C, 1998, 1, 81-96.	3.9	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, 158-179.	3.9	63
186	Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider. Physical Review Letters, 2012, 108, 111801.	7.8	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, 158-179.	7.8	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.	4.1	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.	4.1	63
190	Exclusive electroproduction of ρ^0 and ψ mesons at HERA. European Physical Journal C, 1999, 6, 603-627.	3.9	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, 158-179.	7.8	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.	7.8	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, 158-179.	7.8	62
194	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
195	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
196	Proton irradiation of CVD diamond detectors for high-luminosity experiments at the LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 426, 173-180.	1.6	61
197	Measurement of open beauty production in photoproduction at HERA. European Physical Journal C, 2001, 18, 625-637.	3.9	61
198	Measurement of the production cross section in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 158-179.	7.8	61

#	ARTICLE	IF	CITATIONS
199	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.	7.8	61
200	Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	61
201	Search for pair production of third-generation scalar leptiquarks and top squarks in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 326, 146-150.	4.7	61
202	Search for resonant χ_{c0} production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 326, 146-150.	4.7	61
203	Review of the development of diamond radiation sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 434, 131-145.	1.6	60
204	Measurement of proton-dissociative diffractive photoproduction of vector mesons at large momentum transfer at HERA. European Physical Journal C, 2003, 26, 389-409.	3.9	60
205	Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 132002.	7.8	60
206	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
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.	7.8	60
208	Performance and operation of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03010-T03010.	1.2	59
209	Alignment of the CMS silicon tracker during commissioning with cosmic rays. Journal of Instrumentation, 2010, 5, T03009-T03009.	1.2	59
210	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
211	Search for a vectorlike Quark with Charge $\pm 2/3$. Physical Review Letters, 2011, 106, 132002.	7.8	59
212	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.	4.1	59
213	Measurement of the spin-density matrix elements in exclusive electroproduction of ρ^0 mesons at HERA. European Physical Journal C, 2000, 12, 393-410.	3.9	58
214	Search for anomalous $t\bar{t}$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
215	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
216	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	4.7	58

#	ARTICLE	IF	CITATIONS
217	Interpretation of searches for supersymmetry with simplified models. Physical Review D, 2013, 88, .	4.7	58
218	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ s NN = 5.02 TeV. European Physical Journal C, 2015, 75, 237.	3.9	58
219	Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. Journal of Instrumentation, 2010, 5, T03014-T03014.	1.2	57

220

#	ARTICLE	IF	CITATIONS
253	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
254	Measurement of high-Q ² charged current cross sections in e + p deep inelastic scattering at HERA. European Physical Journal C, 2003, 32, 1-16.	3.9	50
255	High-Q ² neutral current cross sections in e+p deep inelastic scattering at s=318 GeV. Physical Review D, 2004, 70, .	4.7	50
256	Search for B _s 0 → 1/4 + 1/4 and B ₀ → 1/4 + 1/4 Decays in pp Collisions at s=7 TeV. Physical Review Letters, 2011, 107, 101802.	4.7	50
257	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	50
258	Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	49
259	Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy. Physical Review Letters, 2012, 109, 071803.	7.8	49
260	Search for leptonic decays of W [±] bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	49
261	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	3.9	49
262	Search for new resonances decaying via WZ to leptons in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 346, 33-34.	4.7	48
263	Measurement of the associated production of a Z boson and a top quark in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 187-206.	4.7	48
264	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	48
265	Measurement of D [±] and D ⁰ production in deep inelastic scattering using a lifetime tag at HERA. European Physical Journal C, 2009, 63, 171-188.	3.9	47
266	Search for Supersymmetry in pp Collisions at s=7 TeV in Events with Two Photons and Missing Transverse Energy. Physical Review Letters, 2011, 106, 211802.	7.8	47
267	Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	47
268	Measurement of the production cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 187-206.	4.1	47
269	Search for "Top Squarks" in pp Collisions at s=7 TeV in Events with Two Photons and Missing Transverse Energy. Physical Review Letters, 2013, 111, 221801.	7.8	47
270	Measurement of Prompt Production of a Z boson and a top quark in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Physical Review Letters, 2013, 111, 221801.	7.8	47

#	ARTICLE	IF	CITATIONS
271	ZEUS results on the measurement and phenomenology of F_2 at low x and low Q^2 . European Physical Journal C, 1999, 7, 609-630. Measurement of the Polarization of W Bosons with Large Transverse Momenta	3.9	46
272	in W in W Events at the LHC. Physical Review Letters, 2011, 107, 021802.	7.8	46
273	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. Measurement of the ratio R	4.7	46
274	Measurement of the ratio R in W Events at the LHC. Physical Review Letters, 2011, 107, 021802.		

#	ARTICLE	IF	CITATIONS
289	Elastic and proton-dissociative ρ^0 photoproduction at HERA. European Physical Journal C, 1998, 2, 247-267.	3.9	44
290	Search for microscopic black holes in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	44
291	Inclusive Search for Supersymmetry Using Pairs of Variables in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37.	7.8	44
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.	7.8	44
293	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
294	Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters. Physical Review Letters, 2015, 114, 061801.	7.8	44
295	Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 151.	3.9	44
296	Search for lepton flavour violating decays of the Higgs boson to $e\bar{\nu}_\mu$ and $e\bar{\nu}_\tau$ in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 472-500.	4.1	44
297	Low-temperature growth of boron carbide coatings by direct current magnetron sputtering and high-power impulse magnetron sputtering. Journal of Materials Science, 2016, 51, 10418-10428.	3.7	44
298	Measurement of the open-charm contribution to the diffractive proton structure function. Nuclear Physics B, 2003, 672, 3-35.	2.5	43
299	Search for pair-produced dijet resonances in four-jet final states in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1-37.	7.8	43
300	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
301	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
302	Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$. Physical Review D, 2015, 92, .	4.7	43
303	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 325.	3.9	43
304	Search for pair production of first and second generation leptoquarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1-37.	4.7	43
305	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.	4.1	43
306	Measurement of azimuthal asymmetries in deep inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 481, 199-212.	4.1	42

#	ARTICLE	IF	CITATIONS
307	Measurement of the top-quark mass in $\overline{t\bar{t}}$ events with dilepton final states in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	42
308	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.	4.1	42
309	Search for Stopped Gluinos in Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2011, 106, 011801.	7.8	41
310	Search for Stopped Gluinos in Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2011, 106, 011801.	7.8	41
311	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	41
312	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	41
313	Search for fractionally charged particles in collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 87, 032001.	4.1	41
314	Search for pair-produced vectorlike quarks in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 87, 032001.	4.7	41
315	Measurement of the $\overline{t\bar{t}} t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 128.	4.7	41
316	Measurement of the $\overline{t\bar{t}} t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 128.	3.9	41
317	Measurements of inelastic J/ψ and $\psi(2S)$ photoproduction at HERA. European Physical Journal C, 2003, 27, 173-188.	3.9	40
318	Measurement of high-Q e-p neutral current cross sections at HERA and the extraction of xF3. European Physical Journal C, 2003, 28, 175-201.	3.9	40
319	The design and performance of the ZEUS global tracking trigger. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 1257-1282.	1.6	40
320	Search for same-sign top-quark pair production at $\sqrt{s}=7$ TeV and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	40
321	Measurement of four-jet production in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2014, 89, 032001.	4.7	40
322	Measurement of $W^{\pm}Z$ and $Z^{\pm}Z$ production in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 535-555.	4.1	39
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.	4.7	39
324	Inclusive b-jet production in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39

#	ARTICLE	IF	CITATIONS
325	Measurement of the $Z/\gamma^* \rightarrow b\bar{b}$ -jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
326	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
327	Measurement of the ZZ production cross section and search for anomalous couplings in $2\gamma, 2\gamma\gamma, \gamma\gamma\gamma$ final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
328	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	39
329	Measurement of inelastic J/ψ photoproduction at HERA. Zeitschrift für Physik C-Particles and Fields, 1997, 76, 599-612.	1.5	38
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.	4.1	38
331	Search for heavy stable charged particles in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	38
332	First measurement of hadronic event shapes in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 48-67.	4.1	38
333	Measurement of the top-quark mass in $t\bar{t}$ 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
334	Search for pair produced fourth-generation up-type quarks in pp collisions at $\sqrt{s} = 7$ TeV with a lepton in the final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 307-328.	4.1	38
335	Search for resonance decays to lepton+jet at DESY HERA and limits on leptoquarks. Physical Review D, 2003, 68, .	4.7	37
336	Commissioning of the CMS experiment and the cosmic run at four tesla. Journal of Instrumentation, 2010, 5, T03001-T03001.	1.2	37
337	Measurement of the $\tau^+\tau^-$ production cross section in pp collisions at $\sqrt{s}=7$ TeV using the kinematic properties of events with leptons and jets. European Physical Journal C, 2011, 71, 1.	3.9	37
338	Measurement of the $b\bar{b}$ cross section and the $b\bar{b}\gamma$ cross section in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 725, 204-222.	4.1	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, 204-222.	4.1	37
340	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
341	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
342	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

#	ARTICLE	IF	CITATIONS
343	ed search for anomalous pseudoscalar HVV couplings in $\langle \text{mml:math xmlns:mml=} \text{http://www.w3.org/1998/Math/MathML} \text{ altimg=} \text{si1.gif overflow=} \text{scroll} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant=} \text{normal} \rangle \text{VH} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo}$		

#	ARTICLE	IF	CITATIONS
361	Search for Three-jet Resonances in pp Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011, 107, 101801.	7.8	34
362	Observation of Z decays to four leptons with the CMS detector at the LHC. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	34
363	Search for microscopic black holes in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	34
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.	4.7	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, .	4.1	34
366	Search for $Z \rightarrow b\bar{b}$ resonances decaying to dilepton+jets final states in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2013, 87, .	4.7	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, .	4.7	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.	4.7	34
369	Search for $Z \rightarrow b\bar{b}$ resonances decaying to dilepton+jets final states in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2013, 87, .	4.1	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.	7.8	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.	3.9	34
372	Measurements of the $t\bar{t}$ production cross section in lepton+jets 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.	3.9	34
373	Measurement of dijet production in neutral current deep inelastic scattering at high Q^2 and determination of $\hat{\alpha}_s$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 507, 70-88.	4.1	33
374	Leading proton production in $e+p$ collisions at HERA. <i>Nuclear Physics B</i> , 2003, 658, 3-46.	2.5	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.	3.9	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.	4.7	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.	1.6	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.	4.1	33

#	ARTICLE	IF	CITATIONS
379	Dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 1, 109-122.	3.9	32
380	Dijet production in neutral current deep inelastic scattering at HERA. European Physical Journal C, 2002, 23, 13-27.	3.9	32
381	Measurement of charm fragmentation ratios and fractions in photoproduction at HERA. European Physical Journal C, 2005, 44, 351-366.	3.9	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.	4.7	32
383	Search for supersymmetry in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ in events with a single lepton, jets, and missing transverse momentum. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
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.	4.7	32
385	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	4.7	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.	3.9	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.	4.1	32
388	Alignment of the CMS tracker with LHC and cosmic ray data. Journal of Instrumentation, 2014, 9, P06009-P06009.	1.2	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.	3.9	32
390	Tagging fast neutrons from an $^{241}\text{Am}/^{9}\text{Be}$ source. Applied Radiation and Isotopes, 2015, 98, 74-79.	1.5	32
391	Measurement of subjet multiplicities in neutral current deep inelastic scattering at HERA and determination of $\hat{\alpha}_s$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 558, 41-58.	4.1	31
392	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	31
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.	4.7	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.	3.9	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.	4.7	31
396	Measurement of diffractive photoproduction of vector mesons at large momentum transfer at HERA. European Physical Journal C, 2000, 14, 213-238.	3.9	30

#	ARTICLE	IF	CITATIONS
397	Search for contact interactions, large extra dimensions and finite quark radius in ep collisions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 591, 23-41.	4.1	30
398	Search for a heavy bottom-like quark in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.1	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.	4.7	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.	4.7	30
401	Measurement of the W-boson helicity in top-quark decays from $W \rightarrow \tau \nu_\tau$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	30
402	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
403	Search for massive WH resonances decaying into the $W \rightarrow u \bar{b}$ final state at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 237.	3.9	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.	4.1	30
405	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	4.1	30
406	Searches for excited fermions in ep collisions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 549, 32-47.	4.1	29
407	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
408	Search for a $W \rightarrow \tau \nu_\tau$ decay in $pp \rightarrow W \tau \nu_\tau$ events. Journal of High Energy Physics, 2011, 2011, 1.	7.8	29
409	Search for a $W \rightarrow \tau \nu_\tau$ decay in $pp \rightarrow W \tau \nu_\tau$ events. Journal of High Energy Physics, 2011, 2011, 1.	4.1	29
410	Investigation of gamma-ray sensitivity of neutron detectors based on thin converter films. Journal of Instrumentation, 2013, 8, P10025-P10025.	1.2	29
411	Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	29
412	Multi-Grid detector for neutron spectroscopy: results obtained on time-of-flight spectrometer CNCS. Journal of Instrumentation, 2017, 12, P04030-P04030.	1.2	29
413	Search for physics beyond the standard model using multilepton signatures in $pp \rightarrow e^+ e^- \mu^+ \mu^-$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.1	28
414	Search for long-lived particles in events with photons and missing energy in proton-antiproton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 273-294.	4.1	28

#	ARTICLE	IF	CITATIONS
415	Forwardâ€“backward asymmetry of Drellâ€“Yan lepton pairs in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 752-772.	4.1	28
416	Boron carbide coatings for neutron detection probed by x-rays, ions, and neutrons to determine thin film quality. Journal of Applied Physics, 2015, 117, 034901.	2.5	28
417	First measurements with new high-resolution gadolinium-GEM neutron detectors. Journal of Instrumentation, 2016, 11, P05011-P05011.	1.2	28
418	Study of the effective transverse momentum of partons in the proton using prompt photons in photoproduction at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 511, 19-32.	4.1	27
419	Geant4 based simulations for novel neutron detector development. Journal of Physics: Conference Series, 2014, 513, 022017.	4.1	27
420	Geant4 based simulations for novel neutron detector development. Journal of Physics: Conference Series, 2014, 513, 022017.	0.4	27
421	Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	4.7	27
422	Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	27
423	Search for single production of scalar leptoquarks in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2016, 93.	4.7	27
424	Transverse momentum spectra of inclusive b jets in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 59-80.	4.1	27
425	Neutron detectors for the ESS diffractometers. Journal of Instrumentation, 2017, 12, P01019-P01019.	1.2	27
426	Recent results on CVD diamond radiation sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 409, 264-270.	1.6	26
427	CVD diamond detectors for ionizing radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 435, 194-201.	1.6	26
428	Search for resonances decaying to e^+e^- jet in e^+p interactions at HERA. European Physical Journal C, 2000, 16, 253-267.	3.9	26
429	Event shapes in deep inelastic scattering at HERA. Nuclear Physics B, 2007, 767, 1-28.	2.5	26
430	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
431	Search for a heavy gauge boson. Physical Review D, 2012, 86, .	4.1	26
432	Combined search for the quarks of a sequential fourth generation. Physical Review D, 2012, 86, .	4.7	26

#	ARTICLE	IF	CITATIONS
433	Search for resonant $\overline{t}t$ production in lepton+jets events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
434	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
435	¹⁰ B multi-grid proportional gas counters for large area thermal neutron detectors. Neutron News, 2012, 23, 20-25.	0.2	26
436	Search for three-jet resonances in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.1	26
437	Search for $W \rightarrow tb$ 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
438	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
439	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
440	Observation of isolated high-ET photons in photoproduction at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 413, 201-216.	4.1	25
441	Event shape analysis of deep inelastic scattering events with a large rapidity gap at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 421, 368-384.	4.1	25
442	Scaling violations and determination of α_s from jet production in $\bar{p}p$ interactions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 560, 7-23.	4.1	25
443	Performance study of the CMS barrel resistive plate chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03017-T03017.	1.2	25
444	Measurement of the muon stopping power in lead tungstate. Journal of Instrumentation, 2010, 5, P03007-P03007.	1.2	25
445	Commissioning and performance of the CMS silicon strip tracker with cosmic ray muons. Journal of Instrumentation, 2010, 5, T03008-T03008.	1.2	25
446	Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.1	25
447	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
448	Search for a low-mass pseudoscalar Higgs boson produced in association with a $b\bar{b}$ pair in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.1	25
449	Measurement of inclusive D^0 and associated dijet cross sections in photoproduction at HERA. European Physical Journal C, 1999, 6, 67-83.	3.9	24
450	Measurement of prompt photons with associated jets in photoproduction at HERA. European Physical Journal C, 2007, 49, 511-522.	3.9	24

#	ARTICLE	IF	CITATIONS
451	Performance of the CMS drift tube chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03015-T03015.	1.2	24
452	Performance of the CMS Level-1 trigger during commissioning with cosmic ray muons and LHC beams. Journal of Instrumentation, 2010, 5, T03002-T03002.	1.2	24
453	Fast beam conditions monitor BCM1F for the CMS experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 614, 433-438.	1.6	24
454	Development of a novel macrostructured cathode for large-area neutron detectors based on the 10B-containing solid converter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 727, 109-125.	1.6	24
455	Observation of a diffractive contribution to dijet production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, .	4.7	24
456	Measurement of the $t\bar{t}$ production cross section in the $t\bar{t} + \text{jets}$ channel in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	3.9	24
457	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
458	Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
459	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
460	Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 347, 1.	4.1	24
461	Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 93, .	4.7	24
462	Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 93, .	4.7	24
463	Measurement of three-jet distributions in photoproduction at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 443, 394-408.	4.1	23
464	High-mass dijet cross sections in photoproduction at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 531, 9-27.	4.1	23
465	Alignment of the CMS muon system with cosmic-ray and beam-halo muons. Journal of Instrumentation, 2010, 5, T03020-T03020.	1.2	23
466	Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	23
467	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$ TeV in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973.	3.9	23
468	Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	23

#	ARTICLE	IF	CITATIONS
469	Observation of isolated high-ET photons in deep inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 86-100.	4.1	22
470	Search for pentaquarks decaying to $\tilde{\chi}^0$ in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 610, 212-224.	4.1	22
471	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
472	Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 42-61.	4.1	22
473	Search for physics beyond the standard model in events with $\tilde{\chi}^0$, 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
474	Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 815-840.	4.1	22
475	The first bump-bonded pixel detectors on CVD diamond. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 436, 326-335.	1.6	21
476	W production and the search for events with an isolated high-energy lepton and missing transverse momentum at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 471, 411-428.	4.1	21
477	Dijet angular distributions in photoproduction of charm at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 565, 87-101.	4.1	21
478	Forward jet production in deep inelastic ep scattering and low-x parton dynamics at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 13-26.	4.1	21
479	Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201802.	7.8	21
480	In-beam test of the Boron-10 Multi-Grid neutron detector at the IN6 time-of-flight spectrometer at the ILL. Journal of Physics: Conference Series, 2014, 528, 012040.	0.4	21
481	Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 745, 5-28.	4.1	21
482	A comparison of untagged gamma-ray and tagged-neutron yields from 241 AmBe and 238 PuBe sources. Applied Radiation and Isotopes, 2017, 127, 98-102.	1.5	21
483	Study of photon dissociation in diffractive photoproduction at HERA. Zeitschrift für Physik C-Particles and Fields, 1997, 75, 421-435.	1.5	20
484	Measurement of dijet cross sections for events with a leading neutron in photoproduction at HERA. Nuclear Physics B, 2001, 596, 3-29.	2.5	20
485	Measurement of event shapes in deep inelastic scattering at HERA. European Physical Journal C, 2003, 27, 531-545.	3.9	20
486	Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data. Journal of Instrumentation, 2010, 5, T03013-T03013.	1.2	20

#	ARTICLE	IF	CITATIONS
487	Performance of the CMS cathode strip chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03018-T03018.	1.2	20
488	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	20
489	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
490	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
491	Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1252-1272.	4.1	20
492	Measurement of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mi mathvariant="normal" \rangle t \langle \text{mml:mi \rangle \langle \text{mml:mover accent="true" \rangle \langle \text{mml:mi mathvariant="normal" \rangle t \langle \text{mml:mi \rangle \langle \text{mml:mo} \rangle \hat{A}^- \langle \text{mml:mo} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:math} \rangle$ production cross section in pp collisions at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll" \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mi} \rangle s \langle \text{mml:mi} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 8 \langle \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle$	4.1	20
493	Measurements of the $\overline{\text{t}}\text{t}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	20
494	Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	20
495	Meson Production in $B \rightarrow t \bar{t}$ collisions at $\sqrt{s} = 7.8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	7.8	20
496	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $s = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	20
497	Fast neutron sensitivity of neutron detectors based on Boron-10 converter layers. Journal of Instrumentation, 2018, 13, P03004-P03004.	1.2	20
498	Differential cross sections of photoproduction in ep collisions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 401, 192-206.	4.1	19
499	Aligning the CMS muon chambers with the muon alignment system during an extended cosmic ray run. Journal of Instrumentation, 2010, 5, T03019-T03019.	1.2	19
500	Performance of the CMS drift-tube chamber local trigger with cosmic rays. Journal of Instrumentation, 2010, 5, T03003-T03003.	1.2	19
501	CMS data processing workflows during an extended cosmic ray run. Journal of Instrumentation, 2010, 5, T03006-T03006.	1.2	19
502	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $s = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
503	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into \tilde{l}, \tilde{l}^* leptons in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
504	Fine synchronization of the CMS muon drift-tube local trigger using cosmic rays. Journal of Instrumentation, 2010, 5, T03004-T03004.	1.2	18

#	ARTICLE	IF	CITATIONS
505	Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV. Physical Review D, 2012, 86, .	4.7	18
506	Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	18
507	Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2013, 110, 042301.	4.1	18
508	Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 503-525.	4.1	18
510	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 460.	3.9	18
511	Search for $W\epsilon^2$ decaying to tau lepton and neutrino in proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 196-216.	4.1	18
512	Characterization of the Multi-Blade 10B-based detector at the CRISP reflectometer at ISIS for neutron reflectometry at ESS. Journal of Instrumentation, 2018, 13, P05009-P05009.	1.2	18
513	Characterization of thermal neutron beam monitors. Physical Review Accelerators and Beams, 2017, 20, .	1.6	18
514	Measurement of jet shapes in photoproduction at HERA. European Physical Journal C, 1998, 2, 61-75.	3.9	17
515	Measurement of the Q and energy dependence of diffractive interactions at HERA. European Physical Journal C, 2002, 25, 169-187.	3.9	17
516	Measurement of high- p_T dijet angular distributions in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201803.	4.1	17
517	Calibration of the CMS drift tube chambers and measurement of the drift velocity with cosmic rays. Journal of Instrumentation, 2010, 5, T03016-T03016.	1.2	17
518	Search for Pair Production of Second-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201803.	7.8	17
519	Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	17
520	Search for large extra dimensions in dimuon and dielectron events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.1	17
521	Measurement of the Λ_{b}^0 lifetime in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	17
522	Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	17

#	ARTICLE	IF	CITATIONS
523	Probing color coherence effects in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 2901.	3.9	17
524	Measurement of the ratio of the production cross sections times branching fractions of B_c^{\pm} and B_s^{\pm} and B_c^{\pm} and B_s^{\pm} in proton-lead collisions at $\sqrt{s}=2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 641-662.	4.7	17
525	The Opportunity Offered by the ESSnuSB Project to Exploit the Larger Leptonic CP Violation Signal at the Second Oscillation Maximum and the Requirements of This Project on the ESS Accelerator Complex. Advances in High Energy Physics, 2016, 2016, 1-16.	1.1	17
526	Measurement of the inclusive production cross section for forward jets and for dijet events with one forward and one central jet in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.1	17
527	Measurement of the ET,jet2/Q2 dependence of forward-jet production at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 474, 223-233.	4.1	16
528	Search for contact interactions in deep inelastic $e^+p \rightarrow e^+X$ scattering at HERA. European Physical Journal C, 2000, 14, 239-254.	3.9	16
529	Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	16
530	Measurement of the $\overline{\text{t}}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
531	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
532	Measurement of jet multiplicity distributions in $\overline{\text{t}}$ production in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 3014.	3.9	16
533	Measurement of the production cross section ratio $\sigma(\overline{\text{t}}\text{t})/\sigma(\overline{\text{t}}\text{b})$ in pp collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 403-409.	4.1	16
534	Measurement of the production cross section for forward jets and for dijet events with one forward and one central jet in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	16
535	Search for excited leptons in proton-proton collisions at $s=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
536	Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $s=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
537	Gas Phase Chemistry of Trimethylboron in Thermal Chemical Vapor Deposition. Journal of Physical Chemistry C, 2017, 121, 26465-26471.	3.1	16
538	Tracking with CVD diamond radiation sensors at high luminosity colliders. IEEE Transactions on Nuclear Science, 1999, 46, 193-200.	2.0	15
539	Search for QCD-instanton induced events in deep inelastic ep scattering at HERA. European Physical Journal C, 2004, 34, 255-265.	3.9	15
540	Photoproduction of D_s^{\pm} mesons associated with a leading neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 590, 143-160.	4.1	15

#	ARTICLE	IF	CITATIONS
541	Study of the pion trajectory in the photoproduction of leading neutrons at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 610, 199-211.	4.1	15
542	Measurement of inelastic ψ/ψ' production in deep inelastic scattering at HERA. European Physical Journal C, 2005, 44, 13-25.	3.9	15
543	Search for lepton-flavor violation at HERA. European Physical Journal C, 2005, 44, 463-479.	3.9	15
544	Mixing thermodynamics of $TiZrHf$ (TM=Ti,Zr,Hf) from first principles. Applied Physics Letters, 2011, 98, 241911.	3.3	15
545	Study of the Dijet Mass Spectrum in $pp \rightarrow W + jets$ Events at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 251801.	4.1	15
546	Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	15
547	Search for charge-asymmetric production of W bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.1	15
548	Measurement of the mass difference between top and antitop quarks. Journal of High Energy Physics, 2012, 2012, 1.	4.7	15
549	Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	15
550	Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 280-301.	4.1	15
551	Search for supersymmetry with razor variables in $pp \rightarrow W + jets$ collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 90, 112001.	4.7	15
552	A design study of VOR: A versatile optimal resolution chopper spectrometer for the ESS. EPJ Web of Conferences, 2015, 83, 03002.	0.3	15
553	Measurement of the cross section ratio $\sigma(\gamma\gamma \rightarrow e^+e^-)/\sigma(\gamma\gamma \rightarrow \mu^+\mu^-)$ in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 90, 112001.	4.1	15
554	The light-yield response of a NE-213 liquid-scintillator detector measured using 2.6 MeV tagged neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 840, 121-127.	1.6	15
555	Evolution in boron-based GEM detectors for diffraction measurements: from planar to 3D converters. Measurement Science and Technology, 2016, 27, 115902.	2.6	15
556	Search for a Higgs boson decaying into $\tau^+\tau^-$ with low dilepton mass in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 341-362.	4.1	15
557	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
558	Measurement of multiplicity and momentum spectra in the current and target regions of the Breit frame in Deep Inelastic Scattering at HERA. European Physical Journal C, 1999, 11, 251-270.	3.9	14

#	ARTICLE	IF	CITATIONS
559	Jet production in charged current deep inelastic e + p scattering at HERA. European Physical Journal C, 2003, 31, 149-164.	3.9	14
560	Measurement of the ratio of the 3-jet to 2-jet cross sections in pp collisions at $\sqrt{s}=1.8$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.1	14
561	Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	14
562	A ^{10}B -based neutron detector with stacked MultiWire Proportional Counters and macrostructured cathodes. Journal of Instrumentation, 2013, 8, P12003-P12003.	1.2	14
563	A first comparison of the responses of a ^4He -based fast-neutron detector and a NE-213 liquid-scintillator reference detector. Nuclear Instruments and Methods in Physics Research, Section Measurement of Spin correlations in e^+e^- collisions at $\sqrt{s}=1.8$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	14
564	Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy in proton-proton collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.1	14
565	Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy in proton-proton collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.1	14
566	Simulation tools for detector and instrument design. Physica B: Condensed Matter, 2018, 551, 386-389.	2.7	14
567	Performance of CVD diamond microstrip detectors under particle irradiation. IEEE Transactions on Nuclear Science, 1997, 44, 815-818.	2.0	13
568	Angular and current-target correlations in deep inelastic scattering at HERA. European Physical Journal C, 2000, 12, 53-68.	3.9	13
569	Substructure dependence of jet cross sections at HERA and determination of α_s . Nuclear Physics B, 2004, 700, 3-50.	2.5	13
570	Multijet production in neutral current deep inelastic scattering at HERA and determination of α_s . European Physical Journal C, 2005, 44, 183-193.	3.9	13
571	Measurement of azimuthal asymmetries in neutral current deep inelastic scattering at HERA. European Physical Journal C, 2007, 51, 289-299.	3.9	13
572	Search for light resonances decaying into pairs of muons as a signal of new physics. Journal of High Energy Physics, 2011, 2011, 1.	4.7	13
573	Measurement of the underlying event activity in pp collisions at $\sqrt{s}=0.9$ and 7 TeV with the novel jet-area/median approach. Journal of High Energy Physics, 2012, 2012, 1.	4.7	13
574	Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	13
575	Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network. Physical Review D, 2013, 87, .	4.7	13
576	Status of the European Spallation Source ESS AB, the Instrument Selection Process, and a Fundamental Physics Beamline at the ESS. Physics Procedia, 2014, 51, 8-12.	1.2	13

#	ARTICLE	IF	CITATIONS
577	High energy particle background at neutron spallation sources and possible solutions. Journal of Physics: Conference Series, 2014, 528, 012013.	0.4	13
578	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
579	Search for exotic decays of a Higgs boson into undetectable particles and one or more photons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 363-388.	4.1	13
580	Performance of the high-efficiency thermal neutron BAND-GEM detector. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	13
581	Scattered neutron background in thermal neutron detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 902, 173-183.	1.6	13
582	Measurement of dijet photoproduction at high transverse energies at HERA. European Physical Journal C, 1999, 11, 35-50.	3.9	12
583	Multiplicity moments in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 510, 36-54.	4.1	12
584	Search for first generation scalar leptoquarks in the e^+e^- channel in pp collisions at $\sqrt{s} = 1.8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.1	12
585	Search for contact interactions using the inclusive jet cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	12
586	Search for contact interactions using the inclusive jet cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	12
587	Search for baryon number violation in top-quark decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 173-196.	4.1	12
588	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	12
589	Search for neutral MSSM Higgs bosons decaying to $\tau^+\tau^-$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 221-246.	4.1	12
590	A search for excited fermions in e^+p collisions at HERA. Zeitschrift für Physik C-Particles and Fields, 1997, 76, 631-646.	1.5	11
591	Observation of scaling violations in scaled momentum distributions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 428-443.	4.1	11
592	Status of diamond particle detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 418, 196-202.	1.6	11
593	Measurement of the t distribution in diffractive photoproduction at HERA. European Physical Journal C, 1998, 2, 237-246.	3.9	11
594	Measurement of jet shapes in high- Q^2 deep inelastic scattering at HERA. European Physical Journal C, 1999, 8, 367-380.	3.9	11

#	ARTICLE	IF	CITATIONS
595	Isolated tau leptons in events with large missing transverse momentum at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 583, 41-58.	4.1	11
596	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	11
597	Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	11
598	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow \tau\tau, \tau\tau, \tau\tau, \tau\tau$ decay channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	11
599	Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC. Physical Review D, 2013, 87, .	4.7	11
600	Measurement of the $Z\tau^3$ 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
601	Trimethylboron as Single-Source Precursor for Boron-Carbon Thin Film Synthesis by Plasma Chemical Vapor Deposition. Journal of Physical Chemistry C, 2016, 120, 21990-21997.	3.1	11
602	Neutron reflectometry with the Multi-Blade 10^4 B-based detector. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180266.	2.1	11
603	Measurement of diffractive production of D_{s1}^{\pm} mesons in deep-inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 545, 244-260.	4.1	10
604	Bose-Einstein correlations in one and two dimensions in deep inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 583, 231-246.	4.1	10
605	Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	10
606	Detectors for the European Spallation Source. , 2012, , .		10
607	Search for excited leptons in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 720, 289-299.		10
608	Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $s=2.76$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	10
609	Detector rates for the Small Angle Neutron Scattering instruments at the European Spallation Source. Journal of Instrumentation, 2018, 13, P07016-P07016.	1.2	10
610	Experience with the ZEUS central tracking detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 515, 37-42.	1.6	9
611	Design, implementation and first measurements with the Medipix2-MXR detector at the Compact Muon Solenoid experiment. Journal of Instrumentation, 2011, 6, P08005-P08005.	1.2	9
612	Publisher's Note: Search for Dijet Resonances in 7TeV pp Collisions at CMS [Phys. Rev. Lett.105, 211801 (2010)]. Physical Review Letters, 2011, 106, .	7.8	9

#	ARTICLE	IF	CITATIONS
613	Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $pp \rightarrow Z Z$ process. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1228-1238.	4.1	9
614	A novel small-angle neutron scattering detector geometry. Journal of Applied Crystallography, 2013, 46, 1031-1037.	4.5	9
615	Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, .	4.7	9
616	Effects of high charge densities in multi-GEM detectors. , 2015, , .		9
617	^3He -free neutron detectors and their applications. European Physical Journal Plus, 2015, 130, 1.	2.6	9
618	Charge transfer properties through graphene for applications in gaseous detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 571-574.	1.6	9
619	Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 50-71.	4.1	9
620	A high-efficiency thermal neutron detector based on thin 3D ^{10}B converters for high-rate applications. Europhysics Letters, 2018, 123, 52001.	2.0	9
621	Boron-10 lined RPCs for sub-millimeter resolution thermal neutron detectors: Feasibility study in a thermal neutron beam. Journal of Instrumentation, 2019, 14, P01017-P01017.	1.2	9
622	Performance evaluation of the Boron Coated Straws detector with Geant4. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 943, 162463.	1.6	9
623	Effect of substrate roughness and material selection on the microstructure of sputtering deposited boron carbide thin films. Surface and Coatings Technology, 2022, 433, 128160.	4.8	9
624	High- \sqrt{s} inclusive jet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 4, 591-606.	3.9	8
625	The dependence of dijet production on photon virtuality in ep collisions at HERA. European Physical Journal C, 2004, 35, 487-500.	3.9	8
626	Observation of $K_S^0 K_S^0$ resonances in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 578, 33-44.	4.1	8
627	Software-based data acquisition and processing for neutron detectors at European Spallation Source—early experience from four detector designs. Journal of Instrumentation, 2018, 13, T11002-T11002.	4.1	8
628	Tagging fast neutrons from a 252 Cf fission-fragment source. Applied Radiation and Isotopes, 2017, 128, 270-274.	1.5	8
629	Software-based data acquisition and processing for neutron detectors at European Spallation Source—early experience from four detector designs. Journal of Instrumentation, 2018, 13, T11002-T11002.	1.2	8
630	Diffraction dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 5, 41-56.	3.9	7

#	ARTICLE	IF	CITATIONS
631	Properties of hadronic final states in diffractive deep inelastic scattering at DESY HERA. Physical Review D, 2002, 65, .	4.7	7
632	Measurement of meson production in scattering at low. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 649, 111-121.	4.1	7
633	Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2013, 88, .	4.7	7
634	CMS Collaboration. Nuclear Physics A, 2014, 932, 595-620.	1.5	7
635	Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2015, 92, .	4.7	7
636	Search for supersymmetry with photons in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2015, 92, .	4.7	7
637	Investigation of background in large-area neutron detectors due to alpha emission from impurities in aluminium. Journal of Instrumentation, 2015, 10, P10019-P10019.	1.2	7
638	Plasma CVD of hydrogenated boron-carbon thin films from triethylboron. Journal of Chemical Physics, 2018, 148, 034701.	3.0	7
639	Fast neutron sensitivity for ^3He detectors and comparison with Boron-10 based neutron detectors. EPJ Techniques and Instrumentation, 2019, 6, .	1.3	7
640	Charged particles and neutral kaons in photoproduced jets at HERA. European Physical Journal C, 1998, 2, 77-93.	3.9	6
641	Parameterisation of radiation effects on CVD diamond for proton irradiation. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 675-682.	0.4	6
642	Search for lepton-flavor violation in e+ p collisions at DESY HERA. Physical Review D, 2002, 65, .	4.7	6
643	Results from a beam test of a prototype PLT diamond pixel telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 636, S130-S136.	1.6	6
644	Measurement of the cross section for production of $b \bar{b}$ decaying to muons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	6
645	Search for jet extinction in the inclusive jet cross section. Physical Review D, 2014, 90, .	4.1	6
646	Search for jet extinction in the inclusive jet cross section. Physical Review D, 2014, 90, .	4.7	6
647	Comparison of the $Z/\gamma^* \rightarrow \mu^+\mu^- + \text{jets}$ to $\gamma^* \rightarrow \mu^+\mu^- + \text{jets}$ cross sections in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	6
648	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2015, 75, 302.	3.9	6

#	ARTICLE	IF	CITATIONS
649	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 6-31.	4.1	6
650	Search for R-parity violating decays of a top squark in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 178-201.	4.1	6
651	Neutron reflectometry on highly absorbing films and its application to ^{10}B -based neutron detectors. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150711.	2.1	6
652	Neutron activation and prompt gamma intensity in Ar/CO ₂ -filled neutron detectors at the European Spallation Source. Applied Radiation and Isotopes, 2017, 128, 275-286.	1.5	6
653	Suppression of intrinsic neutron background in the Multi-Grid detector. Journal of Instrumentation, 2019, 14, P01021-P01021.	1.2	6
654	First neutron data recorded at the V20 Test Instrument utilizing prototype chopper systems and beam monitors planned for ESS. Europhysics Letters, 2019, 128, 52001.	2.0	6
655	Characterization of boron-coated silicon sensors for thermal neutron detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 972, 164124.	1.6	6
656	Search for selectron and squark production in e+p collisions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 214-230.	4.1	5
657	Measurement of high- Q^2 neutral-current e^+p deep inelastic scattering cross-sections at HERA. European Physical Journal C, 1999, 11, 427-445.	3.9	5
658	Fast beam conditions monitor (BCM1F) for CMS. , 2008, , .		5
659	Commissioning of the CMS High-Level Trigger with cosmic rays. Journal of Instrumentation, 2010, 5, T03005-T03005.	1.2	5
660	Studies of mono-crystalline CVD diamond pixel detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 650, 50-54.	1.6	5
661	Measurement of the ratio $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}}) / \sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{b}\bar{\text{b}})$ in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 014012.	4.7	5
662	Study of final-state radiation in decays of Z bosons produced in pp collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2015, 91, .	4.7	5
663	Characterization of the radiation background at the Spallation Neutron Source. Journal of Physics: Conference Series, 2016, 746, 012033.	0.4	5
664	Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
665	Measurement of the ratio $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}}) / \sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{b}\bar{\text{b}})$ in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 014012.		

#	ARTICLE	IF	CITATIONS
667	Response of a Li-glass/multi-anode photomultiplier detector to $\hat{1}\pm$ -particles from ^{241}Am . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 929, 90-96.	1.6	5
668	Multilayer ^{10}B -RPC neutron imaging detector. Journal of Instrumentation, 2020, 15, P06007-P06007.	1.2	5
669	Response of a Li-glass/multi-anode photomultiplier detector to focused proton and deuteron beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 984, 164604.	1.6	5
670	The Multi-Blade Boron-10-based neutron detector performance using a focusing reflectometer. Journal of Instrumentation, 2020, 15, P03010-P03010.	1.2	5
671	Vanadium-based neutron beam monitor. Physical Review Accelerators and Beams, 2020, 23, .	1.6	5
672	CVD diamond pixel detectors for LHC experiments. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 497-504.	0.4	4
673	Measurement of neutral current cross sections at high Bjorken-x with the ZEUS detector at HERA. European Physical Journal C, 2007, 49, 523-544.	3.9	4
674	Search for pair production of excited top quarks in the lepton + jets final state. Journal of High Energy Physics, 2014, 2014, 1.	4.7	4
675	Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s}=7$ and 8 TeV . Physical Review D, 2016, 94, .	4.7	4
676	I-BAND-GEM: a new way for improving BAND-GEM efficiency to thermal and cold neutrons. European Physical Journal Plus, 2019, 134, 1.	2.6	4
677	Verification of He-3 proportional counters' fast neutron sensitivity through a comparison with He-4 detectors. European Physical Journal Plus, 2020, 135, 1.	2.6	4
678	Rate-capability of the VMM3a front-end in the RD51 Scalable Readout System. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1031, 166548.	1.6	4
679	Study of leakage currents in PC CVD diamonds as function of the magnetic field. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2091-2097.	1.8	3
680	The CMS Beam Conditions and Radiation Monitoring System. Physics Procedia, 2012, 37, 2097-2105.	1.2	3
681	Study of hadronic event-shape variables in multijet final states in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	3
682	Neutron radiography as a non-destructive method for diagnosing neutron converters for advanced thermal neutron detectors. Journal of Instrumentation, 2016, 11, C03033-C03033.	1.2	3
683	Search for $W\hat{+}tb$ in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	3
684	Investigation of neutron scattering in the Multi-Blade detector with Geant4 simulations. Journal of Instrumentation, 2018, 13, P12031-P12031.	1.2	3

#	ARTICLE	IF	CITATIONS
685	High-rate measurements of the novel BAND-GEM technology for thermal neutron detection at spallation sources. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 957, 163389.	1.6	3
686	Recent results with CVD diamond trackers. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 329-334.	0.4	2
687	The performance of the Beam Conditions and Radiation Monitoring System of CMS. , 2011, , .		2
688	Using Back-Scattering to Enhance Efficiency in Neutron Detectors. IEEE Transactions on Nuclear Science, 2017, , 1-1.	2.0	2
689	Strain Effects of Absorbing Layer on Superconducting Properties of a High-Flux Neutron Detector. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-4.	1.7	2
690	General considerations for effective thermal neutron shielding in detector applications. EPJ Techniques and Instrumentation, 2022, 9, .	1.3	2
691	Resolution studies of single-crystal CVD diamond. , 2010, , .		1
692	Statistical energy determination in neutron detector systems for neutron scattering science. , 2013, , .		1
693	CHARACTERIZATION OF TIMEPIX DETECTOR COATED WITH 10B4C FILM FOR HIGH RESOLUTION NEUTRON IMAGING. , 2014, , .		1
694	CMS Collaboration. Nuclear Physics A, 2014, 931, 1241-1265.	1.5	1
695	Small angle detectors for study diffractive processes with CMS. Journal of Instrumentation, 2014, 9, C10032-C10032.	1.2	1
696	Multi-Grid boron-10 detector for time-of-flight spectrometers in neutron scattering science. , 2015, , .		1
697	Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	1
698	Shielding optimization study for ^{10}B -Based large area neutron detectors with detailed Geant4 model. , 2016, , .		1
699	CMS Collaboration. Nuclear Physics A, 2016, 956, 945-963.	1.5	1
700	Large High-Efficiency Thermal Neutron Detectors Based on the Micromegas Technology. Universe, 2018, 4, 134.	2.5	1
701	Parasitic neutron beam monitoring: Proof of concept on gamma monitoring of neutron chopper phases. Europhysics Letters, 2020, 132, 22001.	2.0	1
702	Results from ZEUS on Charm and Beauty Production at HERA II. AIP Conference Proceedings, 2005, , .	0.4	0

#	ARTICLE	IF	CITATIONS
703	Diamond detectors for radiation and luminosity measurements in CMS. , 2009, , .		0
704	Performance of the Fast Beam Conditions Monitor BCM1F of CMS in the first running periods of LHC. Journal of Instrumentation, 2011, 6, C01004-C01004.	1.2	0
705	Studies of PLT-type single-crystal diamond pixel detectors. , 2011, , .		0
706	Statistical energy determination in neutron detector systems for neutron scattering science. , 2012, , .		0
707	An alternative small angle neutron scattering detector. , 2013, , .		0
708	Preliminary assessment of Geant4 HP models and cross section libraries by reactor criticality benchmark calculations. , 2013, , .		0
709	Charge transfer properties through graphene layers in gas detectors. , 2014, , .		0
710	Neutron beam monitors for the European spallation source. , 2015, , .		0
711	Growth and oxidization stability of cubic Zr _{1-x} Gd _x N solid solution thin films. Journal of Applied Physics, 2015, 117, 195301.	2.5	0
712	Characterization of neutron beam monitors for the European spallation source. , 2016, , .		0
713	Low gas pressure operation to improve performances of Multi-Grid detectors. , 2017, , .		0
714	Gamma- and Fast Neutron- Sensitivity of ^{10}B - Based Neutron Detectors at ESS. , 2017, , .		0
715	A stochastic process approach to multilayer neutron detectors. Scandinavian Journal of Statistics, 2019, 46, 621-635.	1.4	0
716	Complex Geant4 Simulation Study for the Optimisation of Multi-Grid Detector. , 2019, , .		0
717	Measurement of the thickness of B ₄ C layers deposited over metallic grids via multi-angle neutron radiography. Measurement Science and Technology, 2019, 30, 015402.	2.6	0