

Ivica Puljak

List of Publications by Year in descending order

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Version: 2024-02-01

1,104
papers

59,027
citations

2098

100
h-index

3102

187
g-index

1127
all docs

1127
docs citations

1127
times ranked

15668
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61.	1.5	6,177
2	The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004.	0.5	2,192
3	Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. Science, 2018, 361, .	6.0	654
4	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV. European Physical Journal C, 2015, 75, 212.	1.4	541
5	Observation of long-range, near-side angular correlations in pPb collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 795-814.	1.5	520
6	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.4	499
7	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	1.6	497
8	Combined results of searches for the standard model Higgs boson in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 26-48.	1.5	470
9	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Transverse Momentum and Pseudorapidity Distributions of Charged Hadrons in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2011, 71, 1555-1570.	1.1	455
10	Observation of long-range, near-side angular correlations in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2010, 2010, 1.	2.9	400
11	Study of high- p_T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	369
12	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 421.	1.4	355
13	Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 213-240.	1.5	354
14	Particle-flow reconstruction and global event description with the CMS detector. Journal of Instrumentation, 2017, 12, P10003-P10003.	0.5	348
15	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	1.4	342
16	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	320
17	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 235.	1.4	320
18	The CMS trigger system. Journal of Instrumentation, 2017, 12, P01020-P01020.	0.5	307

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19	The major upgrade of the MAGIC telescopes, Part II: A performance study using observations of the Crab Nebula. <i>Astroparticle Physics</i> , 2016, 72, 76-94.	1.9	305
20	Measurement of the properties of a Higgs boson in the four-lepton final state. <i>Physical Review D</i> , 2014, 89, .	1.6	299
21	Measurement of the $\langle \mathbf{B} \cdot \mathbf{s} \rangle$ $\hat{\alpha}'$ $\hat{\alpha}$ Branching Fraction and Search for Z Boson Pairs. <i>Physical Review Letters</i> , 2013, 110, 081803.	2.9	282
22	Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs. <i>Physical Review Letters</i> , 2013, 110, 081803.	2.9	270
23	Evidence for collectivity in pp collisions at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 765, 193-220.	1.5	243
24	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. <i>European Physical Journal C</i> , 2014, 74, 3036.	1.4	241
25	Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV. <i>Journal of Instrumentation</i> , 2018, 13, P05011-P05011.	0.5	241
26	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.6	230
27	Observation of Sequential $\hat{\alpha}$ Suppression in PbPb Collisions. <i>Physical Review Letters</i> , 2012, 109, 222301.	2.9	220
28	Observation of Higgs Boson Decay to Bottom Quarks. <i>Physical Review Letters</i> , 2018, 121, 121801.	2.9	219
29	Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. <i>Journal of Instrumentation</i> , 2017, 12, P02014-P02014.	0.5	216
30	Observation of $t\bar{t}$ Production. <i>Physical Review Letters</i> , 2018, 120, 231801.	2.9	209
31	Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy. <i>Physical Review Letters</i> , 2011, 107, 221804.	2.9	208
32	Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	200
33	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , 2020, 80, 4.	1.4	198
34	Search for lepton-flavour-violating decays of the Higgs boson. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 749, 337-362.	1.5	193
35	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 542.	1.4	191
36	Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Physical Review C</i> , 2013, 87, .	1.1	185

#	ARTICLE	IF	CITATIONS
37	Constraints on the spin-parity and anomalous $\langle H \rangle \langle V \rangle \langle V \rangle$ couplings of the Higgs boson in proton collisions at 7 and 8 TeV. Physical Review D, 2015, 92, .	1.6	185
38	Performance of the MAGIC stereo system obtained with Crab Nebula data. Astroparticle Physics, 2012, 35, 435-448.	1.9	183
39	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	181
40	Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2018, 13, P06015-P06015.	0.5	180
41	Standard model Higgs-boson branching ratios with uncertainties. European Physical Journal C, 2011, 71, 1.	1.4	179
42	Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3149.	1.4	179
43	Evidence for Collective Multiparticle Correlations in p -Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2015, 115, 012301.	2.9	177
44			

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55	Indications of Suppression of Excited Υ States in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 107, 052302.	2.9	153
56	The major upgrade of the MAGIC telescopes, Part I: The hardware improvements and the commissioning of the system. Astroparticle Physics, 2016, 72, 61-75.	1.9	150
57	Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 403-425.	1.5	148
58	Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\hat{\mu}_T$ and b-quark multiplicity in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2013, 73, 2568.	1.4	147
59	Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 243-263.	1.4	146
60	Modification of jet shapes in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 243-263.	1.5	144
61	The Blazar TXS 0506+056 Associated with a High-energy Neutrino: Insights into Extragalactic Jets and Cosmic-Ray Acceleration. Astrophysical Journal Letters, 2018, 863, L10.	3.0	141
62	Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and pPb collisions. Physical Review C, 2015, 92, .	1.1	140
63	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	139
64	Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2016, 116, 172302.	2.9	139
65	Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	135
66	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 89, .	1.4	133
67	Studies of jet quenching using isolated-photon + jet correlations in PbPb and pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 773-794.	1.5	130
68	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	129
69	Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 64-85.	1.5	129
70	Black hole lightning due to particle acceleration at subhorizon scales. Science, 2014, 346, 1080-1084.	6.0	128
71	Search for Dijet Resonances in $\sqrt{s} = 7$ TeV pp Collisions at CMS. Physical Review Letters, 2010, 105, 211801.	2.9	126
72	Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy. Physical Review Letters, 2012, 108, 261803.	2.9	126

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73	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011, 107, 132001.	2.9	125
74	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2013, 73, 1.	1.4	125
75	Observation of the Higgs boson decay to a pair of τ , leptons with the CMS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 779, 283-316.	1.5	125
76	Evidence for the 125 GeV Higgs boson decaying to a pair of τ , leptons. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	123
77	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 14$ TeV in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , 2021, 81, 800.	1.4	123
78	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	122
79	Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s} = 2.76$ TeV. <i>Physical Review Letters</i> , 2011, 107, 132001.	1.5	122
80	Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 750, 494-519.	1.5	120
81	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , 2010, 70, 1165-1192.	1.4	120
82	Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 713, 68-90.	1.5	120
83	Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 704, 123-142.	1.5	118
84	Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2012, 109, 171803.	2.9	118
85	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	118
86	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	117
87	Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011, 107, 132001.	1.6	115
88	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2016, 116, 071801.	2.9	114
89	Observation of a peaking structure in the $B \rightarrow J/\psi \tau \nu$ decay. <i>Physical Review Letters</i> , 2016, 116, 071801.	1.1	113
90	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.5	112

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91	MAGIC GAMMA-RAY TELESCOPE OBSERVATION OF THE PERSEUS CLUSTER OF GALAXIES: IMPLICATIONS FOR COSMIC RAYS, DARK MATTER, AND NGC 1275. Astrophysical Journal, 2010, 710, 634-647.	1.6	110
92	Inclusive search for a vector-like T quark with charge $\frac{2}{3}$ in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 729, 149-171.	1.5	110
93	Observation of the Associated Production of a Single Top Quark and a Higgs Boson in $pp \rightarrow t\bar{t}H$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 729, 149-171.	1.6	108
94	Observation of the Associated Production of a Single Top Quark and a Higgs Boson in $pp \rightarrow t\bar{t}H$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 729, 149-171.	2.9	108
95	Azimuthal Anisotropy of Charged Particles at High Transverse Momenta in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 729, 149-171.	1.6	106
96	Observation of Charge-Dependent Azimuthal Correlations in pp Collisions and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 118, 122301.	1.6	106
97	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.	1.9	105
98	Optimized dark matter searches in deep observations of Segue 1 with MAGIC. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 008-008.	1.6	103
99	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	2.9	102
100	Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2019, 122, 121803.	1.6	101
101	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	100
102	Nuclear modification factor of D0 mesons in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 474-496.	1.6	100
103	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	99
104	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.	1.6	99
105	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.		

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109	Measurement of the Electron Charge Asymmetry in Inclusive W Production in pp Collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	2.9	95
110	Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	95
111	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8,$ and 13 TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	95
112	Measurement of $W+W\bar{a}$ production and search for the Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 689, 424-443.	1.5	90
113	Boson Production Cross Sections in pp Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2013, 111, 211804.	2.9	94
114	Measurement of the top quark mass using proton-proton data at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2016, 93, .	1.6	92
115	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	92
116	First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 695, 424-443.	1.5	90
117	Searches for new physics using the \hat{T} invariant mass distribution in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2013, 111, 211804.	2.9	90
118	Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2015, 91, .	1.6	90
119	MULTIWAVELENGTH STUDY OF QUIESCENT STATES OF Mrk 421 WITH UNPRECEDENTED HARD X-RAY COVERAGE PROVIDED BY NuSTAR IN 2013. <i>Astrophysical Journal</i> , 2016, 819, 156.	1.6	90
120	Search for dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 769, .	1.5	90
121	and W production cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2013, 111, 211804.	1.5	89
122	Upsilon production cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2013, 111, 211804.	1.6	88
123	Measurement of the W production cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2013, 111, 211804.	1.6	88
124	Measurement of the W production cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2013, 111, 211804.	1.6	88
125	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 722, 5-27.	1.5	88
126	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 147.	1.4	88

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127	Angular analysis of the decay $B_0 \rightarrow \pi^+ \pi^- \pi^0$ from pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.5	87
128	Observation of Electroweak Production of Same-Sign $W^\pm Z$ Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	2.9	86
129	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	86
130	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	85
131	Evidence of b -jet Quenching in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 113, 132301.	2.9	85
132	Study of double parton scattering using $W + 2$ -jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
133	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
134	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 2847.	1.4	85
135	Phase-resolved energy spectra of the Crab pulsar in the range of 50–400 GeV measured with the MAGIC telescopes. Astronomy and Astrophysics, 2012, 540, A69.	2.1	84
136	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	0.5	84
137	Measurement of the single-top-quark t -channel cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	83
138	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, 299.	1.5	83
139	Measurement of the differential cross section and charge asymmetry for inclusive $W \rightarrow \mu\nu$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	1.6	83
140	Measurement of the differential cross section and charge asymmetry for inclusive $W \rightarrow \mu\nu$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	1.4	83
141	Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	1.4	83
142	Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s} = 13$ TeV using the CMS detector. Journal of Instrumentation, 2019, 14, P07004-P07004.	0.5	83
143	Measurement of the prompt and nonprompt charmonium suppression in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	2.9	82
144	Teraelectronvolt pulsed emission from the Crab Pulsar detected by MAGIC. Astronomy and Astrophysics, 2016, 585, A133.	2.1	82

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145	Suppression and azimuthal anisotropy of prompt and nonprompt ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	1.4	82
146	Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1.	1.6	82
147	J/ψ and $\bar{\psi}(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	81
148	Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.5	81
149	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	81
150	Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	81
151	Measurement of the $B \rightarrow p$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 212301.	2.9	80
152	Study of Z boson production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.	2.9	80
153	Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets. Physical Review Letters, 2015, 114, 051801.	2.9	80
154	Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 28-49.	1.5	79
155	DETECTION OF VERY HIGH ENERGY $\hat{\gamma}$ -RAY EMISSION FROM THE PERSEUS CLUSTER HEAD-TAIL GALAXY IC 310 BY THE MAGIC TELESCOPES. Astrophysical Journal Letters, 2010, 723, L207-L212.	3.0	78
156	VERY HIGH ENERGY $\hat{\gamma}$ -RAYS FROM THE UNIVERSE'S MIDDLE AGE: DETECTION OF THE $z = 0.940$ BLAZAR PKS 1441+25 WITH MAGIC. Astrophysical Journal Letters, 2015, 815, L23.	3.0	78
157	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	78
158	Search for new physics in final states with an energetic jet or a hadronically decaying W boson and transverse momentum imbalance at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 212301.	1.6	78
159	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.	1.4	78
160	Detection of very-high energy $\hat{\gamma}$ -ray emission from NGC 1275 by the MAGIC telescopes. Astronomy and Astrophysics, 2012, 539, L2.	2.1	77
161	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. Physical Review Letters, 2011, 106, 212301.	1.5	77
162	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	77

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166	Study of exclusive two-photon production of $W+W\hat{a}^{\prime}$ in pp collisions at $\sqrt{s}=7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	1.6	75
167	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. European Physical Journal C, 2014, 74, 1.	1.4	75
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169	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.	1.4	74
170	Search for Narrow Resonances in Dijet Final States at $\sqrt{s}=7$ TeV. Physical Review Letters, 2016, 117, 031802.	2.9	74
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172	Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2015, 91, 1.	1.6	73
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177	Search for additional neutral MSSM Higgs bosons in the $t\bar{t}$, final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	73

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190	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	69
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197	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	1.5	68
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218	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	63
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242	Search for a Vectorlike Quark with Charge $\pm 2/3$ in $\sqrt{s} = 7$ TeV Collisions. Physical Review Letters, 2011, 106, 122003.	2.9	59
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258	Charged particle transverse momentum spectra in pp collisions at $\sqrt{s}=0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	56
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270	Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s}=13\text{TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 101-127.	1.5	55

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273	Measurement of the $pp \rightarrow t\bar{t} + \text{jet}$ cross section and search for new physics in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 725, 243-270.		



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290	Measurement of the σ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 459.	1.5	52
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294	Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC. Physical Review D, 2011, 84, .	1.6	51
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300	Discovery of VHE γ -rays from the blazar 1ES 1215+303 with the MAGIC telescopes and simultaneous multi-wavelength observations. Astronomy and Astrophysics, 2012, 544, A142.	2.1	50
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305	Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	49
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315	Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	48
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323	Measurement of the $Z\bar{b}b$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2015, 115, 251801.	1.5	47
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327	Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2013, 111, 021802. https://arxiv.org/abs/1207.1332	1.5	47
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452	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 111802.	2.9	35
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466	Searches for supersymmetry using the M_{T2} variable in hadronic events produced in pp collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	34
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471	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two $\bar{\nu}_\tau$, leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	34
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481	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	1.4	33
482	Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 152-180.	1.5	33
483	Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 244-269.	1.5	33
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486	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 13.	1.4	33

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488	Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at $\sqrt{s}=13$ TeV. $\sqrt{s}=13$ TeV.	1.5	33
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500	Search for pair production of second-generation leptoquarks at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 99, .	1.6	32
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512	Measurement of the W-boson helicity in top-quark decays from W production in lepton+jets events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	1.6	30
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518	Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 14-39.	1.5	30
519	Search for the production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2017, 77, 751.	1.4	30
520	Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 14-39.	1.6	30
521	Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 14-39.	1.6	30
522	Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 14-39.	1.6	30

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530	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2016, 76, 372.	1.4	29
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548	Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	28
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554	Search for single production of scalar leptoquarks in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2016, 93, .	1.6	27
555	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, 2017, 764, 281-286.	1.5	27
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564	Search for new neutral Higgs bosons through the $h \rightarrow b\bar{b}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	27
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574	Measurement of the production cross section for pairs of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
575	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.	1.6	26
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615	Measurement of the jet $2 \rightarrow 3$ substructure observables in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 455-456.	1.5	24
616	Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2017, 118, 021802.	2.9	24
617	Measurement of the jet $2 \rightarrow 3$ substructure observables in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2019, 122, 152001.	1.6	24
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619	Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and p-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV. <i>Physical Review Letters</i> , 2019, 122, 152001.	2.9	24
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623	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$ TeV in final states with b-tagged jets. <i>European Physical Journal C</i> , 2014, 74, 2973.	1.4	23
624	Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	23
625	Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2017, 77, 467.	1.4	23
626	Observation of Top Quark Production in Proton-Nucleus Collisions. <i>Physical Review Letters</i> , 2017, 119, 242001.	2.9	23
627	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	23
628	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	23
629	Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2017, 77, 354.	1.4	23

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634	Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks. Physical Review D, 2018, 97, .	1.6	23
635	Search for resonant $\overline{t}t$ production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	23
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639	Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
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646	Measurement of the ZZ production cross section and Z $\rightarrow t\bar{t}$, $Z \rightarrow t\bar{t} + \gamma$, $Z \rightarrow t\bar{t} + \gamma + \gamma$, $Z \rightarrow t\bar{t} + \gamma + \gamma + \gamma$ branching fraction in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 280-303.	1.5	22
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651	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying \tilde{l}_μ , leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
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654	Observation of a New Excited Beauty Strange Baryon Decaying to $\Lambda_c^+ \bar{c} s$. Physical Review Letters, 2021, 126, 252003.	2.9	22
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665	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	1.3	21
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708	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	18
709	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 460.	1.4	18
710	Search for $W \rightarrow \tau \nu$ decaying to tau lepton and neutrino in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 755, 196-216.	1.5	18
711	Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s} = 8$ TeV using the β variable. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 767, 403-430.	1.5	18
712	Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s} = 8$ TeV using the β variable. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 767, 403-430.	1.5	18
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714	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	18
715	Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	18
716	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 20.	1.4	18
717	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	18
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723	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290.	1.4	18
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725	Search for large extra dimensions in dimuon and dielectron events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.5	17
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734	Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	17
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736	Measurements of jet charge with dijet events in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	17
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740	Search for $Z\bar{1}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	17
741	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	17
742	Search for the decay of a Higgs boson in the $\gamma\gamma$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	17
743	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 697.	1.4	17
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748	Studies of Beauty Suppression via Nonprompt Mesons in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 798, 134952.	2.9	17
749	Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2021, 127, 261804.	2.9	17
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751	Measurement of the $\overline{t}b$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	16
752	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. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	16
753	Measurement of jet multiplicity distributions in $\overline{t}t$ production in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , 2014, 74, 3014.	1.4	16
754	Measurement of the production cross section ratio $\sigma(\overline{t}b)/\sigma(\overline{t}t)$ in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 743, 383-402.	1.5	16
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756	Measurement of the production cross section for single top quarks in association with Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	17

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