

Lucia Silvestris

List of Publications by Year in descending order

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848
papers

39,899
citations

4658

85
h-index

6654

156
g-index

868
all docs

868
docs citations

868
times ranked

11925
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015, 114, 191803.	7.8	1,062
2	Precision electroweak measurements on the Z resonance. <i>Physics Reports</i> , 2006, 427, 257-454.	25.6	974
3	CMS Physics Technical Design Report, Volume II: Physics Performance. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, 995-1579.	3.6	683
4	Search for neutral MSSM Higgs bosons at LEP. <i>European Physical Journal C</i> , 2006, 47, 547.	3.9	592
5	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV. <i>European Physical Journal C</i> , 2015, 75, 212.	3.9	541
6	Determination of jet energy calibration and transverse momentum resolution in CMS. <i>Journal of Instrumentation</i> , 2011, 6, P11002-P11002.	1.2	508
7	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016, 76, 155.	3.9	499
8	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	497
9	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s}=7$ TeV. <i>Journal of Instrumentation</i> , 2012, 7, P10002-P10002.	1.2	467
10	Identification of b-quark jets with the CMS experiment. <i>Journal of Instrumentation</i> , 2013, 8, P04013-P04013.	1.2	418
11	ALEPH: A detector for electron-positron annihilations at LEP. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990, 294, 121-178.	1.6	416
12	Observation of the rare $B_s^0 \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. <i>Nature</i> , 2015, 522, 68-72.	27.8	390
13	Description and performance of track and primary-vertex reconstruction with the CMS tracker. <i>Journal of Instrumentation</i> , 2014, 9, P10009-P10009.	1.2	380
14	Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	3.9	369
15	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 421.	3.9	355
16	Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , 2014, 74, 3076.	3.9	342
17	Performance of the ALEPH detector at LEP. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 360, 481-506.	1.6	322
18	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	320

#	ARTICLE	IF	CITATIONS
19	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.	3.9	320
20	Branching ratios and spectral functions of \tilde{I} , decays: Final ALEPH measurements and physics implications. Physics Reports, 2005, 421, 191-284.	25.6	288
21	Measurement of the inclusive $B \rightarrow s \hat{\alpha}'$ branching fraction and search for $B \rightarrow s \hat{\alpha}'$. Physical Review Letters, 1998, 81, 169-177.	7.8	282
22	A measurement of the inclusive $B \rightarrow s \hat{\alpha}'$ branching ratio. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 429, 169-187.	4.1	259
23	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8TeV. European Physical Journal C, 2014, 74, 3036.	3.9	241
24	Determination of the number of light neutrino species. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 231, 519-529.	4.1	239
25	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.	4.7	230
26	Observation of Sequential Suppression in PbPb Collisions. Physical Review Letters, 2012, 109, 222301.	7.8	220
27	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	7.8	219
28	Observation of $\tilde{A} \rightarrow H$ Production. Physical Review Letters, 2018, 120, 231801.	7.8	209
29	Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy. Physical Review Letters, 2011, 107, 221804.	7.8	208
30	Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	200
31	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	3.9	198
32	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 542.	3.9	191
33	Studies of Quantum Chromodynamics with the ALEPH detector. Physics Reports, 1998, 294, 1-165.	25.6	184
34	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
35	Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3149.	3.9	179
36			

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37	Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. <i>European Physical Journal C</i> , 2014, 74, 2980.	3.9	171
38	Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	169
39	Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s} = \{7\}$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	168
40	Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of Instrumentation</i> , 2015, 10, P08010-P08010.	1.2	168
41	Studies of QCD at \sqrt{s} centre-of-mass energies between 91 and 209 GeV. <i>European Physical Journal C</i> , 2004, 35, 457-486.	3.9	161
42	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2018, 120, 221801.	7.8	160
43	Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	158
44	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	3.9	154
45	A precise measurement of $\hat{\sigma}(Z \rightarrow \text{hadrons})$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 313, 535-548.	4.1	149
46	Search for supersymmetry in hadronic final states with missing transverse energy using the variables \hat{L}_{\pm} T and b-quark multiplicity in pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2013, 73, 2568.	3.9	147
47	Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , 2013, 8, P09009-P09009.	1.2	140
48	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	139
49	Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. <i>Physical Review Letters</i> , 2016, 116, 172302.	7.8	139
50	CMS Physics Technical Design Report: Addendum on High Density QCD with Heavy Ions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, 2307-2455.	3.6	136
51	Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2011, 71, 1.	3.9	135
52	Observation of an excess in the search for the Standard Model Higgs boson at ALEPH. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 495, 1-17.	4.1	129
53	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	3.9	129
54	Search for Dijet Resonances in $\sqrt{s} = 7$ TeV pp Collisions at CMS. <i>Physical Review Letters</i> , 2010, 105, 211801.	7.8	126

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55	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
56	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
57	Evidence for the 125 GeV Higgs boson decaying to a pair of τ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	123
58	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 14 \text{ TeV}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
59	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
60	Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s} = 2.76 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 256-277.	4.1	122
61	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	3.9	120
62	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
63	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
64	Study of the fragmentation of b quarks into B mesons at the Z peak. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 512, 30-48.	4.1	116
65	Single- and multi-photon production in ee collisions at \sqrt{s} up to 209 GeV. European Physical Journal C, 2003, 28, 1-13.	3.9	110
66	Observation of the Associated Production of a Single Top Quark and a W Boson in pp Collisions at $\sqrt{s} = 1.96 \text{ TeV}$. Physical Review Letters, 2008, 101, 132001.	7.8	108
67	Observation of Charge-Dependent Mutual Correlations in pp Collisions and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 118, 122001.	7.8	107
68	Measurement of τ polarization from Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 374, 319-330.	4.1	106
69	Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36, \text{ and } 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	106
70	A precise determination of the number of families with light neutrinos and of the Z boson partial widths. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 235, 399-411.	4.1	104
71	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	103
72	Missing transverse energy performance of the CMS detector. Journal of Instrumentation, 2011, 6, P09001-P09001.	1.2	102

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73	Heavy flavour production in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 244, 551-565.	4.1	101
74	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
75	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	100
76	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	99
77	Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710.	3.9	98
78	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7$ TeV and comparison with $\sqrt{s} = 0.9$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	97
79	Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	95
80	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8, \text{ and } 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	95
81	Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8$ TeV. Journal of Instrumentation, 2015, 10, P02006-P02006.	1.2	93
82	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.	4.7	92
83	Searches for new physics using $\cos\theta^*$ invariant mass distribution in pp collisions at $\sqrt{s}=8$ TeV. Physical Review Letters, 2013, 111, 211804.	7.8	90
84	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 147.	3.9	88
85	Search for the neutral Higgs boson from Z0 decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 236, 233-244.	4.1	87
86	Inclusive $\sigma_{\text{had}}^{1/2}$, $K_{\text{had}}^{1/2}$ and $\sigma(p, \text{ar } p)$ differential cross-sections at the Z resonance. Zeitschrift für Physik C-Particles and Fields, 1995, 66, 355-365.	1.5	86
87	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
88	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	85
89	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
90	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

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91	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
92	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
93	Reconstruction and identification of \tilde{l} , lepton decays to hadrons and $\tilde{l}^{1/2}$ at CMS. Journal of Instrumentation, 2016, 11, P01019-P01019.	1.2	85
94	Search for charginos nearly mass degenerate with the lightest neutralino in e^+e^- collisions at centre-of-mass energies up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 533, 223-236.	4.1	84
95	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
96	Search for supersymmetric particles using acoplanar charged-particle pairs from Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 236, 86-94.	4.1	83
97	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
98	Measurement of the differential cross section and charge asymmetry for inclusive $\mathcal{P} \rightarrow \mathcal{W}^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	3.9	83
99	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s_{NN}} = 5.02$ TeV PbPb collisions at 5.02 TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
100	Suppression and azimuthal anisotropy of prompt and nonprompt \mathcal{P} / ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	82
101	Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1.	4.7	82
102	J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	81
103	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
104	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
105	Study of Z Boson Production in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.	7.8	80
106	Search for a non-minimal Higgs boson produced in the reaction \hat{t}^* . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 313, 312-325.	4.1	78
107	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
108	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.	3.9	78

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109	A search for new quarks and leptons from Z0 decay at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 236, 511-522.	4.1	77
110	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
111	Search for Top-Quark Partners with Charge $\frac{2}{3}$ in the Same-Sign Dilepton Final State. Physical Review Letters, 2014, 112, 171801.	7.8	76
112	An upper limit for the $\tilde{\nu}_\tau$ neutrino mass from $\tilde{\nu}_\tau \rightarrow \tau \tilde{\chi}^0_{1/2}$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 349, 585-596.	4.1	75
113	Final results of the searches for neutral Higgs bosons in e^+e^- collisions at \sqrt{s} up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 191-205.	4.1	75
114	Study of exclusive two-photon production of $W+W^*$ in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	75
115	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
116	Search for the neutral Higgs Boson from Z0 decay in the Higgs mass range between 11 and 24 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 141-149.	4.1	74
117	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
118	Searches for the standard Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 246, 306-314.	4.1	73
119	Measurement of the X(3872) production cross section via decays to $J/\psi + \tilde{\chi}^0_{1/2}$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	73
120	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
121	Search for additional neutral MSSM Higgs bosons in the $\tilde{\nu}_\tau, \tilde{\nu}_\mu$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	73
122	Measurement of the polarization of $\tilde{\nu}_\tau$ leptons produced in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 265, 430-444.	4.1	72
123	Measurement of the charged particle multiplicity distribution in hadronic Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 273, 181-192.	4.1	72
124	Search for scalar leptons in e^+e^- collisions at centre-of-mass energies up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 206-220.	4.1	72
125	Improved measurements of electroweak parameters from Z decays into fermion pairs. Zeitschrift für Physik C-Particles and Fields, 1992, 53, 1-20.	1.5	70
126	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

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127	Measurement of the Splitting Function in $p\bar{p}$ and Pb-Pb Collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	7.8	70
128	Measurement of Prompt D^0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s}=2.76$ TeV. Physical Review Letters, 2018, 120, 202301.	7.8	70
129	Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 3.	3.9	70
130	Measurement of the $\overline{\text{charm}}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	69
131	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
132	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
133	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
134	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
135	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
136	Measurement of the $t\bar{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2019, 79, 368.	3.9	68
137	Measurements of $ V_{cb} $, form factors and branching fractions in the decays $B \rightarrow D^* \ell \bar{\nu}_\ell$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 395, 373-387.	4.1	66
138	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	66
139	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
140	Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in $p\bar{p}$ Collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	7.8	65
141	Observation of a New Λ_b^0 Baryon. Physical Review Letters, 2012, 108, 252002.	7.8	65
142	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
143	Search for neutral Higgs bosons from supersymmetry in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 237, 291-302.	4.1	64
144	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2283.	3.9	64

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145	Search for Flavor-Changing Neutral Currents in Top-Quark Decays $\frac{d\sigma}{ds}(\text{pp} \rightarrow \text{t} \bar{\text{t}} + \text{q} \bar{\text{q}}) \text{ in } \sqrt{s} = 13 \text{ TeV}$	7.8	64
146	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439.	3.9	64
147	Properties of hadronic events in e^+e^- annihilation at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 234, 209-218.	4.1	63
148	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
149	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	63
150	Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2012, 109, 152303.	7.8	62
151	Measurement of the $W+W\bar{W}$ cross section in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous $WW\bar{W}$ and WWZ couplings. European Physical Journal C, 2013, 73, 1.	3.9	62
152	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
153	Measurement of the Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	7.8	62
154	Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	62
155	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
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157	Measurement of the strong coupling constant using \bar{J}/\bar{J} decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 307, 209-220.	4.1	61
158	Measurement of the branching ratio and an upper limit on. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 343, 444-452.	4.1	61
159	Measurement of the Production Cross Section in $pp \rightarrow p \bar{p} + c \bar{c}$ Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 152301.	7.8	61
160	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
161	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 131802.	7.8	61
162	Search for charged Higgs bosons in e^+e^- collisions at energies up to $\sqrt{s} = 1.8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 543, 1-13.	4.1	60

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164	Performance and operation of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03010-T03010.	1.2	59
165	Alignment of the CMS silicon tracker during commissioning with cosmic rays. Journal of Instrumentation, 2010, 5, T03009-T03009.	1.2	59
166	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	59
167	A study of Bose-Einstein correlations in e^+e^- annihilation at 91 GeV. Zeitschrift für Physik C-Particles and Fields, 1992, 54, 75-85.	1.5	58
168	Properties of hadronic Z decays and test of QCD generators. Zeitschrift für Physik C-Particles and Fields, 1992, 55, 209-234.	1.5	58
169	Search for supersymmetric particles in e^+e^- collisions at centre-of-mass energies of 130 and 136 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 373, 246-260.	4.1	58
170	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
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172	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	4.7	58
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174	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV . European Physical Journal C, 2018, 78, 701.	3.9	58
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183	Event activity dependence of Υ (nS) production in $\sqrt{s_{NN}} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	56
184	Measurement of $\hat{t}\hat{t}^*$ from scaling violations in fragmentation functions in e^+e^- annihilation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 487-499.	4.1	55
185	Search for scalar quarks in e^+e^- collisions at up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 537, 5-20.	4.1	55
186	Measurement of masses in the $\overline{\text{tt}}$ system by kinematic endpoints in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2494.	3.9	55
187	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451.	3.9	55
188	Measurement of $\hat{t}\hat{t}^*$ in hadronic Z decays using all-orders resummed predictions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 284, 163-176.	4.1	54
189	Search for the standard model Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 313, 299-311.	4.1	54
190	A study of AuAu decays involving η and ω mesons. Zeitschrift für Physik C-Particles and Fields, 1997, 74, 263-273.	1.5	54
191	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288.	3.9	54
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193	Search for charged Higgs bosons in the $H_{\pm} \rightarrow \tau^* \nu_{\tau}$ decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
194	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
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196	Heavy flavour production and decay with prompt leptons in the ALEPH detector. Zeitschrift für Physik C-Particles and Fields, 1994, 62, 179-198.	1.5	53
197	Search for pentaquark states in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 599, 1-16.	4.1	53
198	Measurement of the tt production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	53

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201	Improved measurement of the triple gauge-boson couplings $\hat{\Gamma}^3_{WW}$ and ZWW in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.1	52
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203	Performance of CMS muon reconstruction in cosmic-ray events. Journal of Instrumentation, 2010, 5, T03022-T03022.	1.2	52
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206	Measurements of the $pp \rightarrow Z\gamma$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
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208	Improved measurement of the triple gauge-boson couplings $\hat{\Gamma}^3_{WW}$ and ZWW in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.1	51
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210	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
211	First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572.	3.9	50
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213	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	50
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215	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 564.	3.9	50
216	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.	4.7	49

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218	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	3.9	49
219	Absolute mass lower limit for the lightest neutralino of the MSSM from e^+e^- data at s up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 583, 247-263.	4.1	48
220	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	48
221	Observation of $\Upsilon(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	48
222	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364.	3.9	48
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225	Search for the $\chi^{\pm 0}$ and $\chi^{\pm \pm}$ Higgs Boson Decays in Pb-Pb and $\chi^{\pm 0}$ Higgs Boson Decays in Pb-Pb and $\chi^{\pm \pm}$ Higgs Boson Decays in Pb-Pb. Physical Review Letters, 2011, 106, 211802.	7.8	47
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227	Search for neutralino production in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 244, 541-550.	4.1	46
228	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	46
229	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.	4.7	46
230	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	46
231	Search for third-generation scalar leptoquarks decaying to a top quark and a τ , lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707.	3.9	46
232	Production of K^0 and \bar{K}^0 in hadronic Z decays. Zeitschrift für Physik C-Particles and Fields, 1994, 64, 361-373.	1.5	45
233	Measurement of the W boson mass and width in e^+e^- collisions at LEP. European Physical Journal C, 2006, 47, 309-335.	3.9	45
234	Search for heavy bottom-like quarks in 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	45

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236	Measurement of Γ_{\pm} from the structure of particle clusters produced in hadronic Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 257, 479-491.	4.1	44
237	Search for microscopic black holes in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	44
238	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
239	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
240	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 140.	3.9	44
241	Production and decay of charmed mesons at the Z resonance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 266, 218-230.	4.1	43
242	An investigation of B_d^0 and B_s^0 oscillation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 322, 441-458.	4.1	43
243	Search for neutral Higgs bosons decaying into four taus at LEP2. Journal of High Energy Physics, 2010, 2010, 1.	4.7	43
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245	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
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247	Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.	4.7	43
248	A search for pair-produced charged Higgs bosons in Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 623-634.	4.1	42
249	Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	42
250	Evidence for exclusive $\tilde{t}\tilde{t}^* \rightarrow W + W$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	42
251	Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
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254	Measurement of the b polarization in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 365, 437-447.	4.1	41
255	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
256	Measurement of the $t\bar{t}$ production cross section in the e^+e^- channel in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
257	Measurement of the $t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8$ and 13 TeV. European Physical Journal C, 2016, 76, 128.	3.9	41
258	Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	41
259	Measurement of properties of B_{s1}^0 decays and search for $B_{s1}^0 \rightarrow e^+e^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
260	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
261	Search for a very light Higgs boson in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 245, 289-297.	4.1	40
262	Measurement of the forward-backward asymmetry in B^0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 263, 325-336.	4.1	40
263	Measurement of the effective b quark fragmentation function at the Z resonance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 699-714.	4.1	40
264	A measurement of $ V_{cb} $ from $B^0 \rightarrow e^+e^-$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 359, 236-248.	4.1	40
265	Quark and gluon jet properties in symmetric three-jet events. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 353-364.	4.1	40
266	Search for single top production in e^+e^- collisions at \sqrt{s} up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 543, 173-182.	4.1	40
267	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
268	Measurement of the $t\bar{t}$ production cross section using events in the e^+e^- final state in pp collisions at $\sqrt{s}=13$ and 8 TeV. European Physical Journal C, 2017, 77, 172.	3.9	40
269	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	3.9	40
270	Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	3.9	40

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272	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.	3.9	40
273	Search for CP violation in $Z\mu^+\mu^-$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 297, 459-468.	4.1	39
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275	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
276	Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
277	Measurement of the $Z\bar{c}c$ b-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
278	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
279	Measurement of the ZZ production cross section and search for anomalous couplings in $Z\mu^+\mu^-$ final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
280	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
281	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
282	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
283	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
284	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 845.	3.9	38
285	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636.	3.9	38
286	Suppression of Excited $\bar{c}c$ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 120, 142301.	7.8	38
287	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\bar{c}c$, leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
288	Measurement of charge asymmetry in hadronic Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 259, 377-388.	4.1	37

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290	Measurement of the $\sigma(\tau\tau)$ 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
291	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
292	Measurement of the WZ production cross section in pp collisions at $\sqrt{s}=7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 236.	3.9	37
293	Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	37
294	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	37
295	Evidence for b baryons in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 278, 209-216.	4.1	36
296	Single- and multi-photon production in e^+e^- collisions at a centre-of-mass energy of 183 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 429, 201-214.	4.1	36
297	Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays. Journal of Instrumentation, 2010, 5, T03021-T03021.	1.2	36
298	Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	36
299	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\gamma\gamma$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	36
300	Search for Narrow Resonances in the $b\bar{b}\gamma\gamma$ -Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 120, 201801.	7.8	36
301	Mass limit for the standard model Higgs boson with the full LEP I ALEPH data sample. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 427-438.	4.1	35
302	A measurement of R_b using a lifetime-mass tag. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 401, 150-162.	4.1	35
303	Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 2758.	3.9	35
304	Search for heavy Majorana neutrinos in e^+e^- jets and e^+e^- jets events in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	35
305	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2017, 119, 111802.	7.8	35
306	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35

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307	Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	35
308	Measurement of exclusive Υ photoproduction from protons in p - Pb collisions at $\sqrt{s_{NN}} = 5.02, 2.76, 2.76, 2.76$ TeV. <i>European Physical Journal C</i> , 2019, 79, 277.	3.9	35
309	Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 269.	3.9	35
310	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 488.	3.9	35
311	Observation of the semileptonic decays of B^0 and B^+ hadrons at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 294, 145-156.	4.1	34
312	Production of charmed mesons in Z decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1994, 62, 1-14.	1.5	34
313	Search for $\tilde{\chi}_1^0 \tilde{\chi}_1^+$ in e^+e^- collisions at LEP2. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 530, 56-66.	4.1	34
314	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
315	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
316	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
317	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
318	Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 379.	3.9	34
319	Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. <i>European Physical Journal C</i> , 2017, 77, 15.	3.9	34
320	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two τ , leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	34
321	Measurement of the top quark mass with lepton+jets final states using p - Pb collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 891.	3.9	34
322	Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	34
323	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 90.	3.9	34
324	First measurement of the B^0 meson mass. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 311, 425-436.	4.1	33

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325	Absolute lower limits on the masses of selectrons and sneutrinos in the MSSM. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 544, 73-88.	4.1	33
326	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	33
327	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	33
328	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	3.9	33
329	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two \tilde{l} , leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	33
330	Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 702.	3.9	33
331	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 13.	3.9	33
332	Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 3.	3.9	33
333	Measurement of $t\bar{t}$ normalised multi-differential cross sections in pp collisions at $\sqrt{s} = 13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	3.9	33
334	Measurements of mean lifetime and branching fractions of b hadrons decaying to J/ψ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 295, 396-408.	4.1	32
335	Z production cross sections and lepton pair forward-backward asymmetries. Zeitschrift für Physik C-Particles and Fields, 1994, 62, 539-550.	1.5	32
336	Study of the $B_s \rightarrow 0$ oscillation frequency using $D_s^* \rightarrow \mu^+ \mu^-$ combinations in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 377, 205-221.	4.1	32
337	Measurement of $\overline{B} \rightarrow B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
338	Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
339	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	4.7	32
340	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2674.	3.9	32
341	Alignment of the CMS tracker with LHC and cosmic ray data. Journal of Instrumentation, 2014, 9, P06009-P06009.	1.2	32
342	Measurements of the $Z \rightarrow 2u$ production cross sections in the $2u$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. European Physical Journal C, 2015, 75, 511.	3.9	32

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343	Searches for pair production of third-generation squarks in $\sqrt{s}=13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
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345	Search for excited leptons in Z0 decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 236, 501-510.	4.1	31
346	Measurement of the production rates of $\hat{1}$ and $\hat{1}^2$ in hadronic Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 292, 210-220.	4.1	31
347	Evidence for the triple-gluon vertex from measurements of the QCD colour factors in Z decay into four jets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 284, 151-162.	4.1	31
348	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	31
349	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	31
350	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 66.	3.9	31
351	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	31
352	Search for top squark pair production in pp collisions at $\sqrt{s}=13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
353	Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	31
354	A multi-dimensional search for new heavy resonances decaying to boosted W^+W^- , W^+Z , or Z^+Z^- boson pairs in the dijet final state at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 237.	3.9	31
355	Measurement of B- mixing at the Z. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 258, 236-246.	4.1	30
356	Study of the subjet structure of quark and gluon jets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 346, 389-398.	4.1	30
357	Measurement of the B_s^0 lifetime and production rate with $D_s^+D_s^-$ combinations in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 361, 221-233.	4.1	30
358	Strange b baryon production and lifetime in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 449-460.	4.1	30
359	Study of muon-pair production at centre-of-mass energies from 20 to 136 GeV with the ALEPH detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 399, 329-341.	4.1	30
360	Measurement of triple gauge-boson couplings at 172 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 422, 369-383.	4.1	30

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362	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
363	Measurement of the W-boson helicity in top-quark decays from $\overline{\text{t}} \rightarrow W^+ b$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	30
364	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
365	Search for massive WH resonances decaying into the $u\bar{b}$ final state at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 237.	3.9	30
366	Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751.	3.9	30
367	Observation of Single Top Quark Production in Association with a Z Boson in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 122, 132002.	7.8	30
368	Measurement of electroweak parameters from Z decays into fermion pairs. Zeitschrift für Physik C-Particles and Fields, 1990, 48, 365-391.	1.5	29
369	A measurement of the b baryon lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 297, 449-458.	4.1	29
370	A high resolution beam telescope built with double sided silicon strip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 381, 49-56.	1.6	29
371	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
372	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2016, 76, 372.	3.9	29
373	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
374	A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the α_T variable. European Physical Journal C, 2017, 77, 294.	3.9	29
375	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
376	Search for lepton flavour violating decays of the Higgs boson to $\tau\mu$, and $e\tau$, in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
377	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
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380	Measurement of the W mass in e^+e^- collisions at production threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 401, 347-362.	4.1	28
381	Measurement of the hadronic photon structure function at LEP 1 for \sqrt{s} values between 9.9 and 284 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 458, 152-166.	4.1	28
382	Measurements of $\overline{\sigma}(\mathit{pp} \rightarrow \text{lepton pair})$ differential cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV using events containing two leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
383	Search for $\overline{\sigma}(\mathit{pp} \rightarrow \text{H} \rightarrow \text{lepton pair})$ production in the $\text{H} \rightarrow \text{lepton pair}$ decay channel with leptonic $\overline{\sigma}(\mathit{pp} \rightarrow \text{lepton pair})$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
384	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
385	Measurement of mixing at the Z using a jet-charge method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 284, 177-190.	4.1	27
386	Measurement of the ratio using event shape variables. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 313, 549-563.	4.1	27
387	Correlation measurements in $Z \rightarrow \tau^+ \tau^-$ and the τ , neutrino helicity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 321, 168-176.	4.1	27
388	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
389	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
390	Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	27
391	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 291.	3.9	27
392	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027.	1.2	27
393	Search for new neutral Higgs bosons through the $\text{H} \rightarrow \text{Z} \rightarrow \text{lepton pair} \overline{\sigma}(\mathit{pp} \rightarrow \text{lepton pair})$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	27
394	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
395	Measurement of isolated photon production in hadronic Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 264, 476-486.	4.1	26
396	Updated measurement of the average b hadron lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 295, 174-186.	4.1	26

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398	Search for sleptons in $e^+e^- \rightarrow \tau^+\tau^-$ collisions at centre-of-mass energies up to 184 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 433, 176-194.	4.1	26
399	Measurement of the $e^+e^- \rightarrow \tau^+\tau^- ZZ$ production cross section at centre-of-mass energies of 183 and 189 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 287-302.	4.1	26
400	Bose-Einstein correlations in W -pair decays with an event-mixing technique. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 606, 265-275.	4.1	26
401	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $\sqrt{s} = 7, \text{TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	26
402	Search for resonant $\overline{\text{t}}\text{t}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
403	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2012, 72, 1.	3.9	26
404	Search for $W \rightarrow \tau b$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	26
405	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	26
406	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76, \text{TeV}$. European Physical Journal C, 2016, 76, 1.	3.9	26
407	Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	26
408	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	26
409	Limit on B_0 oscillation using a jet charge method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 356, 409-422.	4.1	25
410	New results on silicon microstrip detectors of CMS tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 447, 142-150.	1.6	25
411	Performance study of the CMS barrel resistive plate chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03017-T03017.	1.2	25
412	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9 \text{ TeV}$ and 7 TeV . Journal of High Energy Physics, 2011, 2011, 1.	4.7	25
413	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2016, 76, 325.	3.9	25
414	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	25

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416	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
417	The CMS Phase-1 pixel detector upgrade. Journal of Instrumentation, 2021, 16, P02027-P02027.	1.2	25
418	Search for excited neutrinos in Z decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 250, 172-182.	4.1	24
419	Measurement of Tau branching ratios. Zeitschrift für Physik C-Particles and Fields, 1992, 54, 211-228.	1.5	24
420	An investigation into intermittency. Zeitschrift für Physik C-Particles and Fields, 1992, 53, 21-32.	1.5	24
421	Update of electroweak parameters from Z decays. Zeitschrift für Physik C-Particles and Fields, 1993, 60, 71-81.	1.5	24
422	Performance of the CMS drift tube chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03015-T03015.	1.2	24
423	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
424	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
425	Search for third-generation scalar leptoquarks in the $t\bar{t}, \tau\bar{\tau}$ channel in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
426	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
427	P-Type Silicon Strip Sensors for the new CMS Tracker at HL-LHC. Journal of Instrumentation, 2017, 12, P06018-P06018.	1.2	24
428	Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
429	Shapes of Isolated Photon Tagged Jets in Pb-Pb and pp Collisions at $\sqrt{s} = 2.76$ and $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2019, 123, 152001.	7.8	24
430	Measurements of $\sigma(\text{pp} \rightarrow \text{ZZ})$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	3.9	24
431	Search for pair-production of long-lived heavy charged particles in e^+e^- annihilation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 405, 379-388.	4.1	23
432	Scalar quark searches in e^+e^- collisions at $\sqrt{s}=181\text{--}184$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 189-199.	4.1	23

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433	Searches for sleptons and squarks in e^+e^- collisions at 189 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 303-314.	4.1	23
434	A study of the decay width difference in the B_0^s system using $\tilde{\eta}^{\pm}$ correlations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 486, 286-299.	4.1	23
435	Search for $\tilde{\tau}^3$ decays of a Higgs boson in e^+e^- collisions at \sqrt{s} up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 544, 16-24.	4.1	23
436	Alignment of the CMS muon system with cosmic-ray and beam-halo muons. Journal of Instrumentation, 2010, 5, T03020-T03020.	1.2	23
437	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
438	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$; {TeV} $\sqrt{s} = 8$ TeV in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973.	3.9	23
439	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
440	Measurement of the jet mass in highly boosted $\overline{\text{t}}$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.	3.9	23
441	Observation of Top Quark Production in Proton-Nucleus Collisions. Physical Review Letters, 2017, 119, 242001.	7.8	23
442	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
443	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
444	Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 354.	3.9	23
445	Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s} = 8$; {TeV} $\sqrt{s} = 8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746.	3.9	23
446	Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	23
447	Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	23
448	Search for resonant $\overline{\text{t}}$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
449	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 123, 231803.	7.8	23
450	Search for a light pseudoscalar Higgs boson in the boosted $\tilde{\chi}_1^0$, final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23

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451	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 752.	3.9	23
452	Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
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575	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
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596	Search for s channel single top quark production in pp collisions at $s = 7\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
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598	Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\tau^+\tau^-$ at $s = 13\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
599	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $s = 8\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
600	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
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