

Peicho Petkov

List of Publications by Year in descending order

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Version: 2024-02-01

780
papers

44,152
citations

4146

87
h-index

4015

176
g-index

792
all docs

792
docs citations

792
times ranked

12655
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61.	4.1	6,177
2	The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004.	1.2	2,192
3	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 \sqrt{s} TeV. European Physical Journal C, 2015, 75, 212.	3.9	541
4	Observation of long-range, near-side angular correlations in pPb collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 795-814.	4.1	520
5	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
6	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	4.7	497
7	Combined results of searches for the standard model Higgs boson in pp collisions at $\sqrt{s} = 7, 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61.	4.1	6,177
8	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2011, 84, 054002.	2.9	455
9	Observation of the diphoton decay of the Higgs boson and measurement of its properties. Physical Review Letters, 2010, 105, 022002.	7.8	400
10	Study of high-p _T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	369
11	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 421.	3.9	355
12	Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 213-240.	4.1	354
13	Particle-flow reconstruction and global event description with the CMS detector. Journal of Instrumentation, 2017, 12, P10003-P10003.	1.2	348
14	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	3.9	342
15	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.	4.7	320
16	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
17	The CMS trigger system. Journal of Instrumentation, 2017, 12, P01020-P01020.	1.2	307
18	Measurement of the properties of a Higgs boson in the four-lepton final state. Physical Review D, 2014, 89, .	4.7	299

#	ARTICLE	IF	CITATIONS
19	Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs. Physical Review Letters, 2013, 110, 081803.	7.8	270
20	Evidence for collectivity in pp collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 193-220.	4.1	243
21	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. European Physical Journal C, 2014, 74, 3036.	3.9	241
22	Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV. Journal of Instrumentation, 2018, 13, P05011-P05011.	1.2	241
23	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
24	Observation of Sequential Υ Suppression in PbPb Collisions. Physical Review Letters, 2012, 109, 222301.	7.8	220
25	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	7.8	219
26	Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. Journal of Instrumentation, 2017, 12, P02014-P02014.	1.2	216
27	Observation of $t\bar{t}$ Production. Physical Review Letters, 2018, 120, 231801.	7.8	209
28	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
29	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
30	Search for lepton-flavour-violating decays of the Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 337-362.	4.1	193
31	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
32	Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2013, 87, .	2.9	185
33	Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV. Physical Review D, 2015, 92, .	4.7	185
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	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.	1.2	180
36	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

#	ARTICLE	IF	CITATIONS
37	Evidence for Collective Multiparticle Correlations in $p \rightarrow \text{Pb}$ Physical Review Letters, 2015, 115, 012301.	7.8	177

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#	ARTICLE	IF	CITATIONS
55	Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 64-85.	4.1	129
56	Search for Dijet Resonances in 7 TeV pp Collisions at CMS. Physical Review Letters, 2010, 105, 211801.	7.8	126
57	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
58	Observation of the Higgs boson decay to a pair of $\tilde{l}, \text{ leptons}$ with the CMS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 283-316.	4.1	125
59	Evidence for the 125 GeV Higgs boson decaying to a pair of $\tilde{l}, \text{ leptons}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	123
60	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 13.6, 13.8, 13.9, 14.0, 14.1, 14.3, 14.6, 14.7, 14.8, 14.9, 15.1, 15.4, 15.6, 15.9, 16.1, 16.3, 16.6, 16.9, 17.1, 17.3, 17.6, 17.8, 18.0, 18.3, 18.6, 18.9, 19.1, 19.4, 19.6, 19.9, 20.1, 20.3, 20.6, 20.8, 21.1, 21.3, 21.6, 21.8, 22.1, 22.3, 22.6, 22.8, 23.1, 23.3, 23.6, 23.8, 24.1, 24.3, 24.6, 24.8, 25.1, 25.3, 25.6, 25.8, 26.1, 26.3, 26.6, 26.8, 27.1, 27.3, 27.6, 27.8, 28.1, 28.3, 28.6, 28.8, 29.1, 29.3, 29.6, 29.8, 30.1, 30.3, 30.6, 30.8, 31.1, 31.3, 31.6, 31.8, 32.1, 32.3, 32.6, 32.8, 33.1, 33.3, 33.6, 33.8, 34.1, 34.3, 34.6, 34.8, 35.1, 35.3, 35.6, 35.8, 36.1, 36.3, 36.6, 36.8, 37.1, 37.3, 37.6, 37.8, 38.1, 38.3, 38.6, 38.8, 39.1, 39.3, 39.6, 39.8, 40.1, 40.3, 40.6, 40.8, 41.1, 41.3, 41.6, 41.8, 42.1, 42.3, 42.6, 42.8, 43.1, 43.3, 43.6, 43.8, 44.1, 44.3, 44.6, 44.8, 45.1, 45.3, 45.6, 45.8, 46.1, 46.3, 46.6, 46.8, 47.1, 47.3, 47.6, 47.8, 48.1, 48.3, 48.6, 48.8, 49.1, 49.3, 49.6, 49.8, 50.1, 50.3, 50.6, 50.8, 51.1, 51.3, 51.6, 51.8, 52.1, 52.3, 52.6, 52.8, 53.1, 53.3, 53.6, 53.8, 54.1, 54.3, 54.6, 54.8, 55.1, 55.3, 55.6, 55.8, 56.1, 56.3, 56.6, 56.8, 57.1, 57.3, 57.6, 57.8, 58.1, 58.3, 58.6, 58.8, 59.1, 59.3, 59.6, 59.8, 60.1, 60.3, 60.6, 60.8, 61.1, 61.3, 61.6, 61.8, 62.1, 62.3, 62.6, 62.8, 63.1, 63.3, 63.6, 63.8, 64.1, 64.3, 64.6, 64.8, 65.1, 65.3, 65.6, 65.8, 66.1, 66.3, 66.6, 66.8, 67.1, 67.3, 67.6, 67.8, 68.1, 68.3, 68.6, 68.8, 69.1, 69.3, 69.6, 69.8, 70.1, 70.3, 70.6, 70.8, 71.1, 71.3, 71.6, 71.8, 72.1, 72.3, 72.6, 72.8, 73.1, 73.3, 73.6, 73.8, 74.1, 74.3, 74.6, 74.8, 75.1, 75.3, 75.6, 75.8, 76.1, 76.3, 76.6, 76.8, 77.1, 77.3, 77.6, 77.8, 78.1, 78.3, 78.6, 78.8, 79.1, 79.3, 79.6, 79.8, 80.1, 80.3, 80.6, 80.8, 81.1, 81.3, 81.6, 81.8, 82.1, 82.3, 82.6, 82.8, 83.1, 83.3, 83.6, 83.8, 84.1, 84.3, 84.6, 84.8, 85.1, 85.3, 85.6, 85.8, 86.1, 86.3, 86.6, 86.8, 87.1, 87.3, 87.6, 87.8, 88.1, 88.3, 88.6, 88.8, 89.1, 89.3, 89.6, 89.8, 90.1, 90.3, 90.6, 90.8, 91.1, 91.3, 91.6, 91.8, 92.1, 92.3, 92.6, 92.8, 93.1, 93.3, 93.6, 93.8, 94.1, 94.3, 94.6, 94.8, 95.1, 95.3, 95.6, 95.8, 96.1, 96.3, 96.6, 96.8, 97.1, 97.3, 97.6, 97.8, 98.1, 98.3, 98.6, 98.8, 99.1, 99.3, 99.6, 99.8, 100.1, 100.3, 100.6, 100.8, 101.1, 101.3, 101.6, 101.8, 102.1, 102.3, 102.6, 102.8, 103.1, 103.3, 103.6, 103.8, 104.1, 104.3, 104.6, 104.8, 105.1, 105.3, 105.6, 105.8, 106.1, 106.3, 106.6, 106.8, 107.1, 107.3, 107.6, 107.8, 108.1, 108.3, 108.6, 108.8, 109.1, 109.3, 109.6, 109.8, 110.1, 110.3, 110.6, 110.8, 111.1, 111.3, 111.6, 111.8, 112.1, 112.3, 112.6, 112.8, 113.1, 113.3, 113.6, 113.8, 114.1, 114.3, 114.6, 114.8, 115.1, 115.3, 115.6, 115.8, 116.1, 116.3, 116.6, 116.8, 117.1, 117.3, 117.6, 117.8, 118.1, 118.3, 118.6, 118.8, 119.1, 119.3, 119.6, 119.8, 120.1, 120.3, 120.6, 120.8, 121.1, 121.3, 121.6, 121.8, 122.1, 122.3, 122.6, 122.8, 123.1, 123.3, 123.6, 123.8, 124.1, 124.3, 124.6, 124.8, 125.1, 125.3, 125.6, 125.8, 126.1, 126.3, 126.6, 126.8, 127.1, 127.3, 127.6, 127.8, 128.1, 128.3, 128.6, 128.8, 129.1, 129.3, 129.6, 129.8, 130.1, 130.3, 130.6, 130.8, 131.1, 131.3, 131.6, 131.8, 132.1, 132.3, 132.6, 132.8, 133.1, 133.3, 133.6, 133.8, 134.1, 134.3, 134.6, 134.8, 135.1, 135.3, 135.6, 135.8, 136.1, 136.3, 136.6, 136.8, 137.1, 137.3, 137.6, 137.8, 138.1, 138.3, 138.6, 138.8, 139.1, 139.3, 139.6, 139.8, 140.1, 140.3, 140.6, 140.8, 141.1, 141.3, 141.6, 141.8, 142.1, 142.3, 142.6, 142.8, 143.1, 143.3, 143.6, 143.8, 144.1, 144.3, 144.6, 144.8, 145.1, 145.3, 145.6, 145.8, 146.1, 146.3, 146.6, 146.8, 147.1, 147.3, 147.6, 147.8, 148.1, 148.3, 148.6, 148.8, 149.1, 149.3, 149.6, 149.8, 150.1, 150.3, 150.6, 150.8, 151.1, 151.3, 151.6, 151.8, 152.1, 152.3, 152.6, 152.8, 153.1, 153.3, 153.6, 153.8, 154.1, 154.3, 154.6, 154.8, 155.1, 155.3, 155.6, 155.8, 156.1, 156.3, 156.6, 156.8, 157.1, 157.3, 157.6, 157.8, 158.1, 158.3, 158.6, 158.8, 159.1, 159.3, 159.6, 159.8, 160.1, 160.3, 160.6, 160.8, 161.1, 161.3, 161.6, 161.8, 162.1, 162.3, 162.6, 162.8, 163.1, 163.3, 163.6, 163.8, 164.1, 164.3, 164.6, 164.8, 165.1, 165.3, 165.6, 165.8, 166.1, 166.3, 166.6, 166.8, 167.1, 167.3, 167.6, 167.8, 168.1, 168.3, 168.6, 168.8, 169.1, 169.3, 169.6, 169.8, 170.1, 170.3, 170.6, 170.8, 171.1, 171.3, 171.6, 171.8, 172.1, 172.3, 172.6, 172.8, 173.1, 173.3, 173.6, 173.8, 174.1, 174.3, 174.6, 174.8, 175.1, 175.3, 175.6, 175.8, 176.1, 176.3, 176.6, 176.8, 177.1, 177.3, 177.6, 177.8, 178.1, 178.3, 178.6, 178.8, 179.1, 179.3, 179.6, 179.8, 180.1, 180.3, 180.6, 180.8, 181.1, 181.3, 181.6, 181.8, 182.1, 182.3, 182.6, 182.8, 183.1, 183.3, 183.6, 183.8, 184.1, 184.3, 184.6, 184.8, 185.1, 185.3, 185.6, 185.8, 186.1, 186.3, 186.6, 186.8, 187.1, 187.3, 187.6, 187.8, 188.1, 188.3, 188.6, 188.8, 189.1, 189.3, 189.6, 189.8, 190.1, 190.3, 190.6, 190.8, 191.1, 191.3, 191.6, 191.8, 192.1, 192.3, 192.6, 192.8, 193.1, 193.3, 193.6, 193.8, 194.1, 194.3, 194.6, 194.8, 195.1, 195.3, 195.6, 195.8, 196.1, 196.3, 196.6, 196.8, 197.1, 197.3, 197.6, 197.8, 198.1, 198.3, 198.6, 198.8, 199.1, 199.3, 199.6, 199.8, 200.1, 200.3, 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272.1, 272.3, 272.6, 272.8, 273.1, 273.3, 273.6, 273.8, 274.1, 274.3, 274.6, 274.8, 275.1, 275.3, 275.6, 275.8, 276.1, 276.3, 276.6, 276.8, 277.1, 277.3, 277.6, 277.8, 278.1, 278.3, 278.6, 278.8, 279.1, 279.3, 279.6, 279.8, 280.1, 280.3, 280.6, 280.8, 281.1, 281.3, 281.6, 281.8, 282.1, 282.3, 282.6, 282.8, 283.1, 283.3, 283.6, 283.8, 284.1, 284.3, 284.6, 284.8, 285.1, 285.3, 285.6, 285.8, 286.1, 286.3, 286.6, 286.8, 287.1, 287.3, 287.6, 287.8, 288.1, 288.3, 288.6, 288.8, 289.1, 289.3, 289.6, 289.8, 290.1, 290.3, 290.6, 290.8, 291.1, 291.3, 291.6, 291.8, 292.1, 292.3, 292.6, 292.8, 293.1, 293.3, 293.6, 293.8, 294.1, 294.3, 294.6, 294.8, 295.1, 295.3, 295.6, 295.8, 296.1, 296.3, 296.6, 296.8, 297.1, 297.3, 297.6, 297.8, 298.1, 298.3, 298.6, 298.8, 299.1, 299.3, 299.6, 299.8, 300.1, 300.3, 300.6, 300.8, 301.1, 301.3, 301.6, 301.8, 302.1, 302.3, 302.6, 302.8, 303.1, 303.3, 303.6, 303.8, 304.1, 304.3, 304.6, 304.8, 305.1, 305.3, 305.6, 305.8, 306.1, 306.3, 306.6, 306.8, 307.1, 307.3, 307.6, 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343.6, 343.8, 344.1, 344.3, 344.6, 344.8, 345.1, 345.3, 345.6, 345.8, 346.1, 346.3, 346.6, 346.8, 347.1, 347.3, 347.6, 347.8, 348.1, 348.3, 348.6, 348.8, 349.1, 349.3, 349.6, 349.8, 350.1, 350.3, 350.6, 350.8, 351.1, 351.3, 351.6, 351.8, 352.1, 352.3, 352.6, 352.8, 353.1, 353.3, 353.6, 353.8, 354.1, 354.3, 354.6, 354.8, 355.1, 355.3, 355.6, 355.8, 356.1, 356.3, 356.6, 356.8, 357.1, 357.3, 357.6, 357.8, 358.1, 358.3, 358.6, 358.8, 359.1, 359.3, 359.6, 359.8, 360.1, 360.3, 360.6, 360.8, 361.1, 361.3, 361.6, 361.8, 362.1, 362.3, 362.6, 362.8, 363.1, 363.3, 363.6, 363.8, 364.1, 364.3, 364.6, 364.8, 365.1, 365.3, 365.6, 365.8, 366.1, 366.3, 366.6, 366.8, 367.1, 367.3, 367.6, 367.8, 368.1, 368.3, 368.6, 368.8, 369.1, 369.3, 369.6, 369.8, 370.1, 370.3, 370.6, 370.8, 371.1, 371.3, 371.6, 371.8, 372.1, 372.3, 372.6, 372.8, 373.1, 373.3, 373.6, 373.8, 374.1, 374.3, 374.6, 374.8, 375.1, 375.3, 375.6, 375.8, 376.1, 376.3, 376.6, 376.8, 377.1, 377.3, 377.6, 377.8, 378.1, 378.3, 378.6, 378.8, 379.1, 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73	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
74	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
75	Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review Letters, 2019, 122, 121803.	7.8	102
76	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
77	Nuclear modification factor of D0 mesons in PbPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 474-496.	4.1	101
78	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	99
79	Measurement of the prompt Λ production in PbPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	99

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92	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	85
93	Evidence of $b\bar{b}$ Jet Quenching in PbPb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2014, 113, 132301.	7.8	85
94	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
95	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
96	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
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 muon charge asymmetry in inclusive W^+W^- production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	4.7	83
99	Measurement of prompt and nonprompt charmonium suppression in $PbPb$ collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
100	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.	1.2	83
101	Measurement of the differential cross section and charge asymmetry for inclusive W^+W^- production in PbPb collisions at $\sqrt{s} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	7.8	82
102	Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	82
103	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
104	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
105	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

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110	Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets. Physical Review Letters, 2015, 114, 051801.	7.8	80
111	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.	4.7	78
112	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
113	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.		
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116	Measurement of nuclear modification factors of $\rho(1S)$, $\rho(2S)$, and $\rho(3S)$ mesons in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 270-293.		
117	Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2014, 74, 1.	3.9	75
118	Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2014, 74, 1.	7.8	74
119	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
120	Search for Narrow Resonances in Dijet Final States at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 117, 031802.	7.8	74
121	Search for Narrow Resonances in Dijet Final States at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 117, 031802.	4.7	74
122	Measurement of the $X(3872)$ production cross section via decays to $J/\psi \rho^0 + \bar{\psi} \psi$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	73
123	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
124	Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2016, 94, 1.	4.7	73
125	Search for additional neutral MSSM Higgs bosons in the \tilde{t}_1, \tilde{t}_2 final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	73
126	Search for vectorlike charge $\frac{1}{3}$ fermions in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.		

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128	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.	7.8	70
129	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
130	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
131	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.	7.8	70
132	Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2018, 120, 202301.	7.8	70
133	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
134	Measurement of the $\overline{t}t$ 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
135	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
136	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
137	Performance of Reconstruction and Identification of $\tilde{l}, \tilde{\nu}$ leptons decaying to hadrons and $\tilde{l}\tilde{\nu}$ in pp collisions at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2018, 13, P10005-P10005.	1.2	69
138	Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state. Physical Review D, 2019, 99, .	4.7	69
139	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
140	Search for heavy Majorana neutrinos in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.1	68
141	Measurement of the $\overline{t}t$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 368.	3.9	68
142	Search for a standard model-like Higgs boson in the pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.1	67
143	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
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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	Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in Pb-Pb collisions at the CERN Large Hadron Collider. Physical Review C, 2018, 97, 054907.	3.9	64
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
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150	Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 98-119.	4.1	63
151	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
152	Evidence for the Higgs boson decay to a bottom quark-antiquark pair. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 501-532.	4.1	63
153	A measurement of the Higgs boson mass in the diphoton decay channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135425.	4.1	63
154	Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2011, 106, 231801.	7.8	62
155	Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2011, 106, 231801.	7.8	62
156	Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	7.8	62
157	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
158	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
159	Observation of Two Exotic States and Measurement of the B_c Meson Production in pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2011, 106, 231801.	7.8	62
160	Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC. Journal of Instrumentation, 2021, 16, P05014.	1.2	62
161	Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2011, 106, 231801.	7.8	62
162	Search for resonant production of B_c mesons in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2011, 106, 231801.	4.7	61

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163	Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV. <i>Physical Review D</i> , 2017, 96, .	4.7	61
164	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 124, 131802.	7.8	61
165	Dijet Azimuthal Decorrelations in $\sqrt{s} = 13$ TeV Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 124, 131802.	7.8	60
166	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $\sqrt{s} = 13$ TeV pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	7.8	60
167	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review C</i> , 2017, 96, .	2.9	59
168	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	58
169	Interpretation of searches for supersymmetry with simplified models. <i>Physical Review D</i> , 2013, 88, .	4.7	58
170	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2015, 75, 237.	3.9	58
171	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV. <i>European Physical Journal C</i> , 2018, 78, 701.	3.9	58
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182	Limits on the Higgs boson lifetime and width from its decay to four charged leptons. Physical Review D, 2015, 92, .	4.7	55
183	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
184	Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 221-243.	4.1	55
185	Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.	7.8	54
186	Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 141802.	4.1	54
187	Search for charged Higgs bosons in the $H \rightarrow \tau^+ \tau^-$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
188	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
189	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	54
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191	Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h \rightarrow \tau^+ \tau^-$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 217-244.	4.1	53
192	Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$, 2.76 and 7 TeV. European Physical Journal C, 2017, 77, 269.	3.9	53
193	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.	4.1	53
194	Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	52
195	Measurement of the ZZ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 320-347.	4.1	52
196	Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.	3.9	52
197	Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	52
198	Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	52

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200	Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC. Physical Review D, 2011, 84, .	4.7	51
201	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
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203	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, \text{ and } 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	50
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205	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review Letters, 2018, 121, 241802.	7.8	50
206	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 564.	3.9	50
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212	Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Physical Review D, 2017, 96, .	4.7	48
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214	Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 776, 195-216.	7.8	48
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258	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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262	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
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269	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at the LHC. Physical Review Letters, 2018, 120, 092001.	7.8	39
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279	Measurement of the production cross section for a W boson and two jets in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 142301.	4.7	38
280	Measurement of the W and Z inclusive cross sections in $\sqrt{s} = 13$ TeV pp collisions. Physical Review Letters, 2018, 120, 142301.	4.7	37
281	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
282	Combined search for anomalous pseudoscalar HVV couplings in $\sqrt{s} = 13$ TeV pp collisions. Physical Review Letters, 2018, 120, 142301.		

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297	Search for anomalous production and search for new physics in WZ + two jets events in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 281-307.	4.1	36
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311	Measurement of the $\sigma(\text{pp} \rightarrow \text{Z} \tau^+ \tau^-)$ cross section in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2016, 76, 379.	7.8	34
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316	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 $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
317	Measurement of the top quark mass with lepton+jets final states using $\text{pp} \rightarrow \text{t} \tau^+ \tau^-$ collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$. European Physical Journal C, 2018, 78, 891.	3.9	34
318	Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
319	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$. European Physical Journal C, 2019, 79, 90.	3.9	34
320	Search for vectorlike leptons in multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review D, 2019, 100, .	4.7	34
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323	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
324	Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 244-269.	4.1	33

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326	Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{\text{NN}}}=5.02$, ext {TeV} TeV. European Physical Journal C, 2019, 79, 702.	3.9	33
327	Spin correlations using dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 13.	4.7	33
328	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} TeV. European Physical Journal C, 2021, 81, 13.	3.9	33
329	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s}=13$, ext {TeV} TeV. European Physical Journal C, 2021, 81, 3.	3.9	33
330	Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3.	4.1	33
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335	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
336	Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Physical Review Letters, 2018, 121, 242301.	7.8	32
337	Search for pair production of second-generation leptoquarks at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 99, .	4.7	32
338	Charged-particle angular correlations in XeXe collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Physical Review C, 2019, 100, .	4.7	32
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340	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
341	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=8$, ext {TeV} TeV. European Physical Journal C, 2015, 75, 66.	3.9	31
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345	Search for pair production of first-generation scalar leptoquarks at $s = 13 \text{ TeV}$. Physical Review D, 2019, 99, .	4.7	31
346	A multi-dimensional search for new heavy resonances decaying to boosted W boson pairs in the dijet final state at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 237.	3.9	31
347	Spin correlations and top quark polarization using dilepton final states in pp collisions. European Physical Journal C, 2017, 77, 751.	4.7	30
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350	Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2017, 77, 751.	3.9	30
351	Search for top squark pair production in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ using single lepton events from pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	30
352	Study of jet quenching with isolated-photon+jet correlations in $PbPb$ and pp collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Physical Review D, 2018, 98, 014004.	3.9	30
353	Observation of Single Top Quark Production Associated With Energy. Physical Review D, 2018, 98, 112002.	7.8	30
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355	Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review D, 2022, 105, 012002.	4.1	29
356	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. European Physical Journal C, 2016, 76, 372.	3.9	29
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358	A search for new phenomena in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ 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
359	Search for lepton flavour violating decays of the Higgs boson to $\tau\mu$ and $e\tau$, in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
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381	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	26
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573	Measurement of the jet mass distribution and top quark mass in hadronic decays of boosted top quarks in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review Letters, 2021, 126, 252002.	4.7	13
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640	Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
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