

# Juan Alcaraz

## List of Publications by Year in descending order

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Version: 2024-02-01

500  
papers

27,559  
citations

6233  
80  
h-index

10424  
139  
g-index

514  
all docs

514  
docs citations

514  
times ranked

10594  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the Higgs Boson Mass in $\text{pp} \rightarrow \text{H} \rightarrow \text{bb}$ Collisions at 7 TeV and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015, 114, 191803.	2.9	1,062
2	CMS Physics Technical Design Report, Volume II: Physics Performance. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, 995-1579.	1.4	683
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 TeV. <i>European Physical Journal C</i> , 2015, 75, 212.	1.4	541
4	Determination of jet energy calibration and transverse momentum resolution in CMS. <i>Journal of Instrumentation</i> , 2011, 6, P11002-P11002.	0.5	508
5	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016, 76, 155.	1.4	499
6	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.	1.6	497
7	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , 2012, 7, P10002-P10002.	0.5	467
8	Identification of b-quark jets with the CMS experiment. <i>Journal of Instrumentation</i> , 2013, 8, P04013-P04013.	0.5	418
9	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.	13.7	390
10	Description and performance of track and primary-vertex reconstruction with the CMS tracker. <i>Journal of Instrumentation</i> , 2014, 9, P10009-P10009.	0.5	380
11	Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	369
12	Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , 2014, 74, 3076.	1.4	342
13	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.	1.6	320
14	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 235.	1.4	320
15	Measurement of the $\text{B} \rightarrow \mu^+ \mu^-$ branching fraction and search for new physics. <i>Physical Review Letters</i> , 2012, 109, 222301.	2.9	282
16	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. <i>European Physical Journal C</i> , 2014, 74, 3036.	1.4	241
17	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.6	230
18	Observation of Sequential Suppression in PbPb Collisions. <i>Physical Review Letters</i> , 2012, 109, 222301.	2.9	220

#	ARTICLE	IF	CITATIONS
19	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	2.9	219
20	Observation of $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle t \langle / \text{mml:mi} \rangle \langle \text{mml:mover} \text{ accent="true"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle t \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo stretchy="false"} \rangle \hat{H} \langle / \text{mml:mo} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:mover} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle H \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ Production. Physical Review Letters, 2018, 120, 231801.	2.9	209
21	Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy. Physical Review Letters, 2011, 107, 221804.	2.9	208
22	Suppression of non-prompt $J/\psi$ , prompt $J/\psi$ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	200
23	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	1.4	198
24	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 542.	1.4	191
25	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$ . European Physical Journal C, 2012, 72, 1.	1.4	181
26	Search for heavy neutrinos and $W$ bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2014, 74, 3149.	1.4	179
27			

#	ARTICLE	IF	CITATIONS
37	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1. Measurement of Long-Range Near-Side Two-Particle Angular Correlations in $\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\text{ display="inline">\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle/\text{mml:math}\text{ Collisions at}\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\text{ display="inline">\langle\text{mml:msqrt}\text{ }\langle\text{mml:mi}\text{ s}\langle/\text{mml:mi}\text{ }\langle/\text{mml:msqrt}\text{ }\langle\text{mml:mo}\text{ =}\langle/\text{mml:mo}\text{ }\langle\text{mml:mn}\text{ 13}\langle/\text{mml:mn}\text{ }\langle\text{mml:mtext}\text{ \u2022}\langle/\text{mml:mtext}\text{ \u2022}\langle\text{mml:math}\text{ }$	1.6	139
38	$\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\text{ display="inline">\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle/\text{mml:math}\text{ Collisions at}\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\text{ display="inline">\langle\text{mml:msqrt}\text{ }\langle\text{mml:mi}\text{ s}\langle/\text{mml:mi}\text{ }\langle/\text{mml:msqrt}\text{ }\langle\text{mml:mo}\text{ =}\langle/\text{mml:mo}\text{ }\langle\text{mml:mn}\text{ 13}\langle/\text{mml:mn}\text{ }\langle\text{mml:mtext}\text{ \u2022}\langle/\text{mml:mtext}\text{ \u2022}\langle\text{mml:math}\text{ }$	2.9	139
39	CMS Physics Technical Design Report: Addendum on High Density QCD with Heavy Ions. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 2307-2455.	1.4	136
40	Prompt and non-prompt $J/\psi$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	135
41	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	129
42	Search for Dijet Resonances in 7 TeV $\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\text{ display="inline">\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle/\text{mml:math}\text{ Collisions at CMS. Physical Review Letters, 2010, 105, 211801.}$	2.9	126
43	Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy. Physical Review Letters, 2012, 108, 261803.	2.9	126
44	Dark Matter benchmark models for early LHC Run-2 Searches: Report of the ATLAS/CMS Dark Matter Forum. Physics of the Dark Universe, 2020, 27, 100371.	1.8	126
45	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	125
46	Evidence for the 125 GeV Higgs boson decaying to a pair of $t\bar{t}$ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	123
47	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	1.4	123
48	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	122
49	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	1.4	120
50	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	118
51	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. Observation of the Associated Production of a Single Top Quark and a $\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\text{ display="inline">\langle\text{mml:mi}\text{ W}\langle/\text{mml:mi}\text{ }\langle/\text{mml:math}\text{ Boson in}\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\text{ display="inline">\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle/\text{mml:math}\text{ Collisions at}\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\text{ display="inline">\langle\text{mml:mrow}\text{ }\langle\text{mml:mrow}\text{ }\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle/\text{mml:mrow}\text{ }\langle\text{mml:mtext}\text{ \u2022}\langle/\text{mml:mtext}\text{ \u2022}\langle\text{mml:math}\text{ }$	1.6	117
52	$\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\text{ display="inline">\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle/\text{mml:math}\text{ Collisions at}\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\text{ display="inline">\langle\text{mml:mrow}\text{ }\langle\text{mml:mrow}\text{ }\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle/\text{mml:mrow}\text{ }\langle\text{mml:mtext}\text{ \u2022}\langle/\text{mml:mtext}\text{ \u2022}\langle\text{mml:math}\text{ }$	2.9	108
53	$\langle\text{mml:math}\text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}\text{ display="inline">\langle\text{mml:mrow}\text{ }\langle\text{mml:mrow}\text{ }\langle\text{mml:mi}\text{ p}\langle/\text{mml:mi}\text{ }\langle/\text{mml:mrow}\text{ }\langle\text{mml:mtext}\text{ \u2022}\langle/\text{mml:mtext}\text{ \u2022}\langle\text{mml:math}\text{ }$ Collisions and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 118, 122201.	1.6	106
54	Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9$ , 2.36, and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	106

#	ARTICLE	IF	CITATIONS
55	Charged-particle nuclear modification factors in PbPb and pPb collisions at $s_N N = 5.02 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	103
56	Missing transverse energy performance of the CMS detector. Journal of Instrumentation, 2011, 6, P09001-P09001.	0.5	102
57	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.	1.6	101
58	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	100
59	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.	1.6	99
60	Search for new phenomena with the $M_{T2}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 710.	1.4	98
61	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7 \text{ TeV}$ and comparison with $\sqrt{s} = 0.9 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.	1.6	97
62	Search for supersymmetry in hadronic final states using $M_{T2}$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	95
63	Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8 \text{ TeV}$ . Journal of Instrumentation, 2015, 10, P02006-P02006.	0.5	93
64	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.	1.6	92
65	Performance of l,q-lepton reconstruction and identification in CMS. Journal of Instrumentation, 2012, 7, P01001-P01001.	0.5	91
66	Searches for new physics using the invariant mass distribution in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Physical Review Letters, 2013, 111, 211804.	2.9	90
67	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 147.	1.4	88
68	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	86
69	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	85
70	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.	6.0	85
71	Study of double parton scattering using W + 2-jet events in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
72	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ . European Physical Journal C, 2014, 74, 2847.	1.4	85

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73	Reconstruction and identification of $\tilde{\nu}_e$ , lepton decays to hadrons and $\tilde{l}^{\pm} \rightarrow l^{\pm} + \nu_l$ at CMS. <i>Journal of Instrumentation</i> , 2016, 11, P01019-P01019.	0.5	85
74	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020, 15, P10017-P10017.	0.5	84
75	Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	83
76	Measurement of the differential cross section and charge asymmetry for inclusive $p \rightarrow W \rightarrow l^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 469.	1.4	83
77	Measurement of prompt and nonprompt charmonium suppression in $\text{PbPb}$ collisions at $\sqrt{s} = 5.02$ TeV. <i>European Physical Journal C</i> , 2018, 78, 509.	1.4	83
78	Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in PbPb collisions at $\sqrt{s} = 2.76$ TeV. <i>European Physical Journal C</i> , 2017, 77, 252.	1.4	82
79	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. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	82
80	$J/\psi$ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	81
81	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	81
82	Search for a charged Higgs boson in pp collisions at $s = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	81
83	Study of $Z$ boson production in PbPb Collisions at $\sqrt{s} = 2.76$ TeV. <i>Physical Review Letters</i> , 2011, 106, 212301.	2.9	80
84	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	78
85	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. <i>European Physical Journal C</i> , 2020, 80, 75.	1.4	78
86	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	77
87	Search for Top-Quark Partners with Charge $\frac{2}{3}$ in the Same-Sign Dilepton Final State. <i>Physical Review Letters</i> , 2014, 112, 171801.	2.9	76
88	Study of exclusive two-photon production of $W+W^*$ in pp collisions at $\sqrt{s}=7$ TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	75
89	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2014, 74, 1.	1.4	75
90	Measurement of the $WW$ - cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , 2016, 76, 401.	1.4	74

#	ARTICLE	IF	CITATIONS
91	Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \pi^+ \pi^-$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
92	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.	1.4	73
93	Search for additional neutral MSSM Higgs bosons in the $t\bar{t}$ , $b\bar{b}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	73
94	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. <i>Measurement of the Splitting Function <math>\alpha_s(\mu_F)</math> in <math>t\bar{t}</math> and <math>b\bar{b}</math> Collisions at <math>\sqrt{s} = 8</math> TeV</i>	1.6	70
95	Measurement of Prompt $t\bar{t}$ and $b\bar{b}$ Production in $\sqrt{s} = 8$ TeV $p\bar{p}$ and $Pb-Pb$ Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 112, 242301.	2.9	70
96	Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 112, 242302.	2.9	70
97	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.	1.4	70
98	Measurement of the $t\bar{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	69
99	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	68
100	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	1.4	68
101	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	68
102	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.	1.4	68
103	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 7 TeV. European Physical Journal C, 2019, 79, 368.	1.4	68
104	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. <i>Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in <math>p\bar{p}</math> and <math>Pb-Pb</math> Collisions at <math>\sqrt{s_{NN}} = 2.76</math> TeV</i>	1.6	65
105	Observation of a New $t\bar{t}$ Production Cross Section in $\sqrt{s} = 7$ TeV $p\bar{p}$ Collisions. European Physical Journal C, 2012, 72, 1863.	2.9	65
106	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3129.	1.4	65
107	Measurement of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2283.	1.4	64

#	ARTICLE or Flavor-Changing Neutral Currents in Top-Quark Decays<math>\mathrm{in} \langle \mathrm{mml:math}	IF	CITATIONS
109	xmlns:mml= <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> display="inline"><mml:mrow><mml:mi>t</mml:mi><mml:mo>stretchy="false">â†'</mml:mo><mml:mi>Z</mml:mi><mml:mi>q</mml:mi></mml:mrow></mml:math>in<math>\mathrm{in} \langle \mathrm{mml:math} 64 display="inline "><mml:mi>p</mml:mi><mml:mi>p</mml:mi></mml:math>Collisions at<math>\mathrm{in} \langle \mathrm{mml:math}	1.6	64
110	Search for new physics in same-sign dilepton events in protonâ€“proton collisions at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2016, 76, 439.	1.4	64
111	Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider. Physical Review Letters, 2012, 108, 111801.	2.9	63
112	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	63
113	Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at<math>\mathrm{in} \langle \mathrm{mml:math} xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msqrt><mml:msub><mml:mi>s</mml:mi><mml:mi>NN</mml:mi></mml:msub></mml:msqrt> <sup>2.9</sup> <mml:mo>=</mml:mo> Physical Review Letters, 2012, 109, 152303.	1.4	62
114	Measurement of the $W+W^{\prime\prime}$ cross section in pp collisions at $\sqrt{s} = 7\text{ TeV}$ and limits on anomalous $WW^{\prime 3}$ and $WWZ$ couplings. European Physical Journal C, 2013, 73, 1.	1.4	62
115	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8\text{ TeV}$ $s = 8\text{ TeV}$ . European Physical Journal C, 2016, 76, 13.	1.4	62
116	Measurement of the <math>\mathrm{in} \langle \mathrm{mml:math} xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>B</mml:mi><mml:mo>A±</mml:mo></mml:msup></mml:math> Meson Nuclear Modification Factor in Pb-Pb Collisions at <math>\mathrm{in} \langle \mathrm{mml:math} xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:msub><mml:mi>s</mml:mi><mml:mi>s</mml:mi></mml:msub></mml:msqrt></mml:mrow></mml:math> Physical Review Letters, 2017, 119, 152301.	2.9	62
117	Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $s = 13\text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	62
118	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13\text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	62
119	Observation of Two Excited <math>\mathrm{in} \langle \mathrm{mml:math} xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mi>B</mml:mi><mml:mi>c</mml:mi><mml:mo>+</mml:mo></mml:msubsup></mml:math> States and Measurement of the <math>\mathrm{in} \langle \mathrm{mml:math} xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mi>B</mml:mi><mml:mi>c</mml:mi><mml:mo>+</mml:mo></mml:msubsup></mml:math> Measurement of the <math>\mathrm{in} \langle \mathrm{mml:math} xmlns:mml="http://www.w3.org/1998/Math/MathML" Ti ETQq1 1 0.784314 reBT /Overlock 10 Tf 50 322 display="inline"><mml:msup><mml:mi>B</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math> Production Cross Section in <math>\mathrm{in} \langle \mathrm{mml:math} xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mi>p</mml:mi></mml:math>Collisions at<math>\mathrm{in} \langle \mathrm{mml:math} xmlns:mml="http://www.w3.org/1998/Math/MathML"	2.9	61
120	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7\text{ TeV}$ and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1.	1.4	60
122	Performance and operation of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03010-T03010.	0.5	59
123	Alignment of the CMS silicon tracker during commissioning with cosmic rays. Journal of Instrumentation, 2010, 5, T03009-T03009.	0.5	59
124	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.	1.6	59
125	Search for anomalous $t\bar{t}$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58
126	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7\text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	58

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127	Studies of jet mass in dijet and W/Z + jet events. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	58
128	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ . <i>European Physical Journal C</i> , 2015, 75, 237.	1.4	58
129	Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. <i>Journal of Instrumentation</i> , 2010, 5, T03014-T03014.	0.5	57
130	[REDACTED]		
	[REDACTED]		

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145	Performance of CMS muon reconstruction in cosmic-ray events. <i>Journal of Instrumentation</i> , 2010, 5, T03022-T03022.	0.5	52
146	Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	52
147	Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ and impact on parton distribution functions. <i>European Physical Journal C</i> , 2017, 77, 459.	1.4	52
148	Measurements of the $p\bar{p} \rightarrow Z Z$ production cross section and the $Z \rightarrow l^+l^-$ branching fraction, and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2018, 78, 165.	1.4	52
149	Search for exclusive or semi-exclusive $t\bar{t}$ production and observation of exclusive and semi-exclusive $e^+e^-$ production in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	51
150	Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	51
151	Search for $B_s \rightarrow l^+l^-$ and $B_d \rightarrow l^+l^-$ Decays in pp Collisions at $\sqrt{s}=7 \text{ TeV}$ . <i>Physical Review Letters</i> , 2014, 107, 101802.		
152	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, 7 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	50
153	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13 \text{ TeV}$ . <i>Physical Review Letters</i> , 2018, 121, 241802.		
154	Search for leptonic decays of $W^{\pm}$ bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	49
155	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2014, 74, 1.	1.4	49
156	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	48
157	Observation of $Y(1S)$ pair production in proton-proton collisions at $s = 8 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	48
158	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . <i>European Physical Journal C</i> , 2019, 79, 364.	1.4	48
159	Search for Supersymmetry in pp Collisions at $\sqrt{s}=7 \text{ TeV}$ in Events with Two Photons and Missing Transverse Energy. <i>Physical Review Letters</i> , 2011, 106, 211802.	2.9	47
160	Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	47
161	Search for the $t\bar{t}$ production in pp collisions in Pb-Pb and smll-math display="block">\sqrt{s_{NN}}=2.76 \text{ TeV}. <i>Physical Review Letters</i> , 2012, 109, 241802.	2.9	47
162	xml�mml="http://www.w3.org/1998/Math/MathML" display="block">\sqrt{s_{NN}}=2.76 \text{ TeV}. <i>Physical Review Letters</i> , 2012, 109, 241802.	2.9	47

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163	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	46
164	Search for disappearing tracks in proton-proton collisions at $s = 8 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.	1.6	46
165	Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ , lepton at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2018, 78, 707.	1.4	46
166	Search for heavy bottom-like quarks in $4.9 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	45
167	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.	2.9	45
168	Search for microscopic black holes in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	44
169	Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1-37.	1.6	44
170	Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 151.	1.4	44
171	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2018, 78, 140.	1.4	44
172	Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2014, 74, 3060.	1.4	43
173	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	43
174	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 325.	1.4	43
175	Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.	1.6	43
176	Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2012, 72, 1.	1.4	42
177	Evidence for exclusive $t\bar{t} \rightarrow W + W \rightarrow \gamma\gamma$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and $8 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	1.6	42
178	Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	42
179	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	42
180	Measurement of the $t\bar{t} \rightarrow t\bar{t}$ production cross section in the $e\bar{e}$ channel in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ and $8 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	1.6	41

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181	Measurement of the $\mathbf{\overline{t}t\bar{t}}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2016, 76, 128.	1.4	41
182	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 $s = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	41
183	Search for same-sign top-quark pair production at $\sqrt{s} = 7 \text{ TeV}$ and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.	1.6	40
184	Measurement of the $\mathbf{\overline{t}t\bar{t}}$ production cross section using events in the $e\mu$ final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 172.	1.4	40
185	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	1.4	40
186	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	1.6	40
187	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2021, 81, 378.	1.4	40
188	Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.	1.6	39
189	Measurement of the $Z\bar{Z}$ production cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
190	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.	1.6	39
191	Measurement of the ZZ production cross section and search for anomalous couplings in 2-, “2,” “ $\epsilon^2$ final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	39
192	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	39
193	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2018, 78, 965.	1.4	39
194	Search for heavy stable charged particles in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.	1.6	38
195	Measurement of the top-quark mass in $\mathbf{\overline{t}t}$ events with lepton+jets final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	38
196	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 636.	1.4	38
197	Suppression of Excited States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review Letters, 2010, 100, 142301.	2.9	38
198	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\tau$ , leptons at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	38

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199	Commissioning of the CMS experiment and the cosmic run at four tesla. <i>Journal of Instrumentation</i> , 2010, 5, T03001-T03001.	0.5	37
200	Measurement of the $\mathrm{t\bar{t}}$ production cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ using the kinematic properties of events with leptons and jets. <i>European Physical Journal C</i> , 2011, 71, 1.	1.4	37
201	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $s = 8 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	37
202	Measurement of the $WZ$ production cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and search for anomalous triple gauge couplings at $\sqrt{s} = 8 \text{ TeV}$ . <i>European Physical Journal C</i> , 2017, 77, 236.	1.4	37
203	Search for a new scalar resonance decaying to a pair of $Z$ bosons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	37
204	Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays. <i>Journal of Instrumentation</i> , 2010, 5, T03021-T03021.	0.5	36
205	Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	36
206	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\ell^+\ell^-$ final state in proton-proton collisions at $s = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	36
207	Search for Narrow Resonances in the $b\bar{b}\ell^+\ell^-$ -Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $s = 13 \text{ TeV}$ . <i>Physical Review Letters</i> , 2018, 120, 201801.	2.9	36
208	Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . <i>European Physical Journal C</i> , 2014, 74, 2758.	1.4	35
209	Search for heavy Majorana neutrinos in $e^\pm e^\pm$ jets and $e^\pm \ell^\pm$ jets events in proton-proton collisions at $s = 8 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	35
210	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $s = 13 \text{ TeV}$ . <i>Physical Review Letters</i> , 2017, 119, 111802.	2.9	35
211	Search for anomalous $Wtb$ couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $s = 7 \text{ TeV}$ and $8 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	35
212	Measurement of the cross section for top quark pair production in association with a $W$ or $Z$ boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	35
213	Measurement of associated production of a $W$ boson and a charm quark in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . <i>European Physical Journal C</i> , 2019, 79, 269.	1.4	35
214	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . <i>European Physical Journal C</i> , 2021, 81, 488.	1.4	35
215	Observation of $Z$ decays to four leptons with the CMS detector at the LHC. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	34
216	Search for microscopic black holes in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	34

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217	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or $\geq 3$ b-quark jets in 7 TeV pp collisions using the variable $\hat{T}$ . <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	34
218	Searches for supersymmetry using the M T2 variable in hadronic events produced in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	34
219	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.	1.4	34
220	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.	1.4	34
221	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two $\tau$ leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	34
222	Measurement of the top quark mass with lepton+jets final states using $p_T$ collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 891.	1.4	34
223	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.	1.6	34
224	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	33
225	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. <i>European Physical Journal C</i> , 2016, 76, 371.	1.4	33
226	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two $\tau$ leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	33
227	Measurement of exclusive $\rho \rightarrow \pi^+ \pi^- \pi^+ \pi^-$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2019, 79, 702.	1.4	33
228	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 13.	1.4	33
229	Search for top squark pair production using dilepton final states in $\sqrt{s}=13$ TeV collision data collected at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 3.	1.4	33
230	Measurement of $\hat{t}\bar{t}$ normalised multi-differential cross sections in $\sqrt{s}=13$ TeV collisions and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	33
231	Measurement of angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	32
232	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	32
233	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2013, 73, 2674.	1.4	32
234	Alignment of the CMS tracker with LHC and cosmic ray data. <i>Journal of Instrumentation</i> , 2014, 9, P06009-P06009.	0.5	32

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235	Measurements of the $\mathrm{Z} \bar{\mathrm{Z}}$ production cross sections in the $2\mathrm{u} 2\bar{u} 2\bar{l}^{\frac{1}{2}}$ channel in proton-proton collisions at $\sqrt{s} = 7$ and $8\text{TeV}$ . European Physical Journal C, 2015, 75, 511.	1.4	32
236	Searches for pair production of third-generation squarks in $\sqrt{s} = 13\text{TeV}$ pp collisions. European Physical Journal C, 2017, 77, 327.	1.4	32
237	Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76\text{TeV}$ Using Isolated Photon-Tagged Jets. Physical Review Letters, 2018, 121, 242301.	2.9	32
238	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s} = 7\text{TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	31
239	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8\text{TeV}$ . European Physical Journal C, 2015, 75, 66.	1.4	31
240	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76\text{TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	1.6	31
241	Search for top squark pair production in pp collisions at $\sqrt{s} = 13\text{TeV}$ using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
242	Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	31
243	A multi-dimensional search for new heavy resonances decaying to boosted W bosons, or Z boson pairs in the dijet final state at $\sqrt{s_{NN}} = 13\text{TeV}$ . European Physical Journal C, 2020, 80, 237.	1.4	31
244	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7\text{TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
245	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow q\bar{q} \rightarrow l^+l^- +$ in pp collisions at $\sqrt{s} = 7\text{TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
246	Measurement of the W-boson helicity in top-quark decays from t-channel production in lepton+jets events in pp collisions at $\sqrt{s} = 7\text{TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	30
247	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	1.6	30
248	Search for massive WH resonances decaying into the $\ell^+ \ell^- b \bar{b}$ final state at $\sqrt{s} = 8\text{TeV}$ . European Physical Journal C, 2016, 76, 237.	1.4	30
249	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.	1.4	30
250	Observation of Single Top Quark Production in Association with a Z boson in Proton-Proton Collisions at $\sqrt{s_{NN}} = 5.02\text{TeV}$ . Physical Review Letters, 2019, 122, 132003.	2.9	30
251	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	1.6	29
252	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.	1.4	29

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253	Correlations between jets and charged particles in PbPb and pp collisions at $s_{NN} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	1.6	29
254	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 $\alpha_T$ variable. European Physical Journal C, 2017, 77, 294.	1.4	29
255	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	29
256	Search for lepton flavour violating decays of the Higgs boson to $\tau^+ \tau^-$ , and $e^+ e^-$ , in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	29
257	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.	1.6	29
258	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2019, 79, 280.	1.4	29
259	Measurements of differential cross sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ using events containing two leptons. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
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408	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	13
409	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	1.6	13
410	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $s = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	12
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413	Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	12
414	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	12

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423	Search for electroweak production of charginos in final states with two $\tilde{l}$ , leptons in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
424	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $s = 8$ TeV using $H \rightarrow WW$ decays. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
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446	Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	8
447	Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	8
448	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	7
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450	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s} = 13$ TeV via Higgs boson decays to $\tilde{\chi}^\pm$ leptons. Journal of High Energy Physics, 2019, 2019, 1.	1.6	7

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464	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	5
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473	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
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488	Measurements of the ( $p\rightarrow Z\rightarrow 4\ell$ ) production cross section and the ( $Z\rightarrow 4\ell$ ) branching fraction, and constraints on anomalous triple gauge couplings at ( $\sqrt{s} = 13, 14, 13.6 \text{ TeV}$ ), 2018, 78, 1.	3	
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