

Mauro Menichelli

List of Publications by Year in descending order

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Version: 2024-02-01

348
papers

15,728
citations

22153
59
h-index

24982
109
g-index

356
all docs

356
docs citations

356
times ranked

9907
citing authors

#	ARTICLE	IF	CITATIONS
1	First Result from the Alpha Magnetic Spectrometer on the International Space Station: Precision Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5–350 GeV. <i>Physical Review Letters</i> , 2013, 110, 141102.	7.8	852
2	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV. <i>European Physical Journal C</i> , 2015, 75, 212.	3.9	541
3	Determination of jet energy calibration and transverse momentum resolution in CMS. <i>Journal of Instrumentation</i> , 2011, 6, P11002-P11002.	1.2	508
4	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016, 76, 155.	3.9	499
5	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , 2012, 7, P10002-P10002.	1.2	467
6	Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	3.9	369
7	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 421.	3.9	355
8	Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , 2014, 74, 3076.	3.9	342
9	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. Measurement of the branching fraction and search 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.	4.7 7.8	320 282
10	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , 2020, 80, 4.	3.9	198
11	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s}=8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 542.	3.9	191
14			

#	ARTICLE	IF	CITATIONS
19	Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of Instrumentation</i> , 2013, 8, P09009-P09009.	1.2	140
20	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>European Physical Journal C</i> , 2013, 73, 1.	3.9	125
21	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , 2021, 81, 800.	3.9	123
22	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	122
23	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , 2010, 70, 1165-1192.	3.9	120
24	Charged-particle nuclear modification factors in PbPb and pPb collisions at $s_N N = 5.02 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	103
25	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	101
26	Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>European Physical Journal C</i> , 2017, 77, 710.	3.9	98
27	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7 \text{ TeV}$ and comparison with $\sqrt{s} = 0.9 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	97
28	Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s}=7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	95
29	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	92
30	Searches for new physics using the invariant mass distribution in pp collisions at $\sqrt{s}=8 \text{ TeV}$. <i>Physical Review Letters</i> , 2013, 111, 211804.	7.8	90
31	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	86
32	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. <i>Science</i> , 2012, 338, 1569-1575.	12.6	85
33	Study of double parton scattering using W + 2-jet events in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	85
34	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	85
35	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. <i>European Physical Journal C</i> , 2014, 74, 2847.	3.9	85
36	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of Instrumentation</i> , 2020, 15, P10017-P10017.	1.2	84

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37	Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	83
38	Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV . European Physical Journal C, 2018, 78, 509.	3.9	83
39	J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	81
40	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
41	Study of Z boson Production in PbPb Collisions at $\sqrt{s} = 2.76 \text{ TeV}$. Physical Review Letters, 2011, 106, 212301.	7.8	80
42	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	78
43	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 75.	3.9	78
44	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	77
45	Study of exclusive two-photon production of $W+W^-$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	75
46	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$. European Physical Journal C, 2014, 74, 1.	3.9	75
47	Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	70
48	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 $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 3.	3.9	70
49	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	69
50	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
51	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. European Physical Journal C, 2019, 79, 368.	3.9	68
52	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	66
53	Search for a right-handed scalar Higgs Boson in the Dimuon Decay Channel in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2016, 76, 439.	7.8	65
54	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2016, 76, 439.	3.9	64

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55	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	63
56	Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at $\sqrt{s} = 2.76 \text{ TeV}$. <i>Physical Review Letters</i> , 2012, 109, 152303.	7.8	62
57	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. <i>European Physical Journal C</i> , 2016, 76, 13.	3.9	62
58	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	62
59	Observation of Two Excited States and Measurement of the $\Lambda_c^+\rightarrow\Lambda_c^0\pi^+$ Decay Width. <i>Physical Review Letters</i> , 2012, 109, 152303.	7.8	62
60	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Physical Review Letters</i> , 2020, 124, 131802.	7.8	61
61	Search for anomalous $t\bar{t}$ production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	58
62	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	58
63	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. <i>European Physical Journal C</i> , 2015, 75, 237.	3.9	58
64	Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>European Physical Journal C</i> , 2017, 77, 578.	3.9	57
65	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	57
66	Charged particle transverse momentum spectra in pp collisions at $\sqrt{s} = 0.9 \text{ TeV}$ and 7 TeV . <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	56
67	Exclusive $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	56
68	Event activity dependence of Υ production in $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ pPb and $\sqrt{s} = 2.76 \text{ TeV}$ pp collisions. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	56
69	Measurement of masses in the $t\bar{t}$ system by kinematic endpoints in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>European Physical Journal C</i> , 2013, 73, 2494.	3.9	55
70	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>European Physical Journal C</i> , 2016, 76, 451.	3.9	55
71	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ and $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	54
72	Search for charged Higgs bosons in the $H^\pm \rightarrow t^\pm \bar{t}, b^\pm \bar{b}$ decay channel in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	54

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73	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	54
74	Measurement of the $\{m_t\} \bar{t} \{m_t\}$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	53
75	Measurement of prompt and nonprompt J/ψ production in $p\bar{p}$ and $p\bar{p}$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2017, 77, 269.	3.9	53
76	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. <i>European Physical Journal C</i> , 2017, 77, 459.	3.9	52
77	Measurements of the $p\bar{p} \rightarrow Z \rightarrow l^+l^-$ production cross section and the $Z \rightarrow 4l$ branching fraction, and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2018, 78, 165.	3.9	52
78	Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	51
79	First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. <i>European Physical Journal C</i> , 2010, 70, 555-572.	3.9	50
80	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	50
81	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 564.	3.9	50
82	Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	49
83	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	49
84	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	48
85	Search for Supersymmetry in ppCollisions at $\sqrt{s} = 7$ TeV in Events with Two Photons and Missing Transverse Energy. <i>Physical Review Letters</i> , 2011, 106, 211802.	7.8	47
86	Search for disappearing tracks in proton-proton collisions at $s = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	46
87	Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 707.	3.9	46
88	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 140.	3.9	44
89	Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	43
90	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 325.	3.9	43

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91	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. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	43
92	Diamond detectors for high energy physics experiments. <i>Journal of Instrumentation</i> , 2018, 13, C01029-C01029.	1.2	42
93	Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	42
94	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	41
95	Measurement of the $t\bar{t}\gamma$ production cross section in the $e\gamma$ channel in proton-proton collisions at $s = 7 \text{ TeV}$ and 8 TeV . <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	41
96	Measurement of the $t\bar{t}\gamma$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. <i>European Physical Journal C</i> , 2016, 76, 128.	3.9	41
97	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 $s = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	41
98	Measurement of properties of $B_0 \rightarrow D_s^+ \tau^+ \nu_\tau$ decays and search for $B_0 \rightarrow D_s^+ \tau^+ \nu_\tau$ with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	41
99	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	41
100	Measurement of the $t\bar{t}\gamma$ production cross section using events in the $e\mu$ final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>European Physical Journal C</i> , 2017, 77, 172.	3.9	40
101	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. <i>European Physical Journal C</i> , 2018, 78, 789.	3.9	40
102	Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13 \text{ TeV}$ and combination with the lepton+jets channel. <i>European Physical Journal C</i> , 2019, 79, 313.	3.9	40
103	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13 \text{ TeV}$. <i>European Physical Journal C</i> , 2021, 81, 378.	3.9	40
104	Inclusive b-jet production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	39
105	Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	39
106	Measurement of the ZZ production cross section and search for anomalous couplings in 2HDM final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	39
107	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	39
108	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>European Physical Journal C</i> , 2018, 78, 965.	3.9	39

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109	Measurement of the top-quark mass in $t\bar{t}$ events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	38
110	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2017, 77, 845.	3.9	38
111	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2017, 77, 636.	3.9	38
112	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying ℓ , leptons at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	38
113	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2017, 77, 236.	3.9	37
114	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	37
115	Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	36
116	Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , 2014, 74, 2758.	3.9	35
117	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $s = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	35
118	Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	35
119	Measurement of exclusive $\Lambda_c^0 \rightarrow p \Lambda$ photoproduction from protons in $p\text{-Pb}$ collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2019, 79, 277.	3.9	35
120	Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 269.	3.9	35
121	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 488.	3.9	35
122	Searches for supersymmetry using the M T2 variable in hadronic events produced in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	34
123	Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 379.	3.9	34
124	Measurements of $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. <i>European Physical Journal C</i> , 2017, 77, 15.	3.9	34
125	Measurement of the top quark mass with lepton+jets final states using $p\bar{p}$ collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 891.	3.9	34
126	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 90.	3.9	34

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127	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2012, 72, 1.	3.9	33
128	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
129	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two \tilde{l}_i , leptons and two jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	33
130	Measurement of exclusive $\rho \rightarrow \pi^+ \pi^- \gamma \gamma$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s} = 5.02 \text{ TeV}$. European Physical Journal C, 2019, 79, 702.	3.9	33
131	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2021, 81, 13.	3.9	33
132	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2021, 81, 3.	3.9	33
133	Measurement of $t\bar{t}$ normalised multi-differential cross sections in $\sqrt{s} = 13 \text{ TeV}$ collisions, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	3.9	33
134	Measurement of angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
135	Measurements of the Z production cross sections in the $Z \rightarrow l^+ l^-$ channel in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ and $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 511.	3.9	32
136	Searches for pair production of third-generation squarks in $\sqrt{s} = 13 \text{ TeV}$ pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
137	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	31
138	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	4.7	31
139	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 66.	3.9	31
140	Search for top squark pair production in pp collisions at $s = 13 \text{ TeV}$ using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
141	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.	4.7	31
142	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
143	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.	4.7	30
144	Search for massive WH resonances decaying into the $b\bar{b} \rightarrow \ell^+ \ell^-$ final state at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2016, 76, 237.	3.9	30

#	ARTICLE	IF	CITATIONS
145	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
146	Observation of Single Top Quark Production in Association with a $t\bar{t}$ Boson in Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review Letters, 2019, 122, 132003.	7.8	30
147	Measurement of inclusive jet production and nuclear modifications in $p\bar{p}$ collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. European Physical Journal C, 2016, 76, 372.	3.9	29
148	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
149	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.	4.7	29
150	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.	3.9	29
151	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.	4.7	28
152	Search for $t\bar{t}$ production in the $H\rightarrow b\bar{b}$ decay channel with leptonic $t\bar{t}$ decays in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
153	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
154	Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	27
155	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2018, 78, 291.	3.9	27
156	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of Instrumentation, 2020, 15, P02027-P02027.	1.2	27
157	Search for new neutral Higgs bosons through the $H\rightarrow ZA$ process in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	27
158	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
159	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	26
160	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	26
161	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	25
162	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	25

#	ARTICLE	IF	CITATIONS
163	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
164	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
165	The CMS Phase-1 pixel detector upgrade. Journal of Instrumentation, 2021, 16, P02027-P02027.	1.2	25
166	Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
167	Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1. Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp collisions at $\sqrt{s} = 2.76 \text{ TeV}$. pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review Letters, 2019, 122, 152001.	4.7	24
168	Measurements of $\sigma(pp \rightarrow t\bar{t})$ and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2021, 81, 200.	7.8	24
169	Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2017, 77, 467.	3.9	24
170	Search for resonant $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
171	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s} = 13 \text{ TeV}$. Physical Review Letters, 2019, 123, 231803.	4.7	23
172	Search for a light pseudoscalar Higgs boson in the boosted $\tilde{l}_1 \tilde{l}_1 \tilde{l}_1 \tilde{l}_1$ final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23
173	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 752.	3.9	23
174	Search for $t\bar{t}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
175	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
176	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
177	Search for direct pair production of supersymmetric partners to the $\tilde{\tau}_1 \tilde{\tau}_1 \tilde{\tau}_1 \tilde{\tau}_1$ lepton in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 189.	3.9	22
178	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 370.	3.9	22
179	Search for supersymmetry in events with a \tilde{l}_1 lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	21

#	ARTICLE or a Light Charged Higgs Boson Decaying to a $\langle \text{mml:math} \rangle$ xmins:mml= http://www.w3.org/1998/Math/MathML display="inline">> $\langle \text{mml:mi} \rangle W \langle / \text{mml:mi} \rangle </ \text{mml:math} \rangle$ Boson and a $\langle \text{mml:math} \rangle$ xmins:mml="http://www.w3.org/1998/Math/MathML" display="inline">> $\langle \text{mml:mi} \rangle C \langle / \text{mml:mi} \rangle < \text{mml:mi} \rangle P \langle / \text{mml:mi} \rangle </ \text{mml:math} \rangle$ -Odd Higgs Boson in Final States with $\langle \text{mml:math} \rangle$ xmins:mml="http://www.w3.org/1998/Math/MathML" display="block" style="margin-left: 20px;">Boson and a $\langle \text{mml:math} \rangle$	IF	CITATIONS
181	7.8	21	
182	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	2.9	21
183	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
184	Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. European Physical Journal C, 2013, 73, 2404.	3.9	20
185	Measurements of the $\mathbf{t}\overline{\mathbf{t}}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	20
186	Search for $t\overline{t}H$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
187	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
188	Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 94.	3.9	20
189	Observation of the Production of Three Massive Gauge Bosons at $\langle \text{mml:math} \rangle$ xmins:mml="http://www.w3.org/1998/Math/MathML" display="block" style="margin-left: 20px;"> $\langle \text{mml:msqrt} \rangle \langle \text{mml:mi} \rangle s \langle / \text{mml:mi} \rangle < \text{mml:msqrt} \rangle \langle \text{mml:mo} \rangle = \langle / \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 13 \langle / \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle \text{a} \text{e} \text{c} \text{c}$ Physical Review Letters, 2020, 125, 151802.	7.8	20
190	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
191	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on anomalous quartic couplings. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
192	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
193	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $s = 7$ TeV and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
194	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into leptons in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
195	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 723.	3.9	19
196	Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	18
197	Measurement of normalized differential $\mathbf{t}\overline{\mathbf{t}}$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
198	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	18

#	ARTICLE	IF	CITATIONS
199	MUSiC: a model-unspecific search for new physics in protonâ€“proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 629.	3.9	18
200	Combined searches for the production of supersymmetric top quark partners in protonâ€“proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 970.	3.9	18
201	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in protonâ€“proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2022, 82, 290.	3.9	18
202	Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	17
203	Measurement of the Λ_b^0 lifetime in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	17
204	Probing color coherence effects in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 2901. Measurement of the ratio of the production cross sections times branching fractions of $B_c \rightarrow \Lambda_c^+ \pi^-$, $\Lambda_c^+ \pi^+$, $B_c \bar{b}$ and $B_b^0 \bar{b}$ and $B_c \Lambda_c^+ \pi^-$, $B_c \bar{\Lambda}_c^0 \pi^+$, $B_c \Lambda_c^+ \pi^+$, $B_c \bar{b}$ and $B_b^0 \bar{b}$. $\text{mathcal{B}}(\text{B}_c \rightarrow \Lambda_c^+ \pi^-) / \text{mathcal{B}}(\text{B}_c \bar{b}) = 0.784^{+0.14}_{-0.17}$	3.9	17
205	2015, 1. Recent progress of RD53 Collaboration towards next generation Pixel Read-Out Chip for HL-LHC. Journal of Instrumentation, 2016, 11, C12058-C12058.	1.2	17
207	Search for new physics with the M T2 variable in all-jets final states produced in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
208	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
209	Search for Z^3 resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
210	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
211	Measurement of charged particle spectra in minimum-bias events from protonâ€“proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 697.	3.9	17
212	Electroweak production of two jets in association with a Z boson in protonâ€“proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 1.	3.9	17
213	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
214	Measurement of the $t\overline{t}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
215	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
216	Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 536.	3.9	16

#	ARTICLE	IF	CITATIONS
217	Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
218	Measurement of associated Z + charm production in proton+proton collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2018, 78, 287.	3.9	16
219	Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
220	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 886.	3.9	16
221	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
222	Measurement of the $t\bar{t}$ production cross section using events with one lepton and at least one jet in pp collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
223	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
224	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\ell^+\ell^-$, and $e\bar{\nu}$, in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	15
225	Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
226	Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\tilde{b}\tilde{b}$ at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
227	Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
228	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
229	Measurements of the pp \rightarrow WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
230	Search for electroweak production of a vector-like T quark using fully hadronic final states. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
231	Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
232	Observation of the PbPb collisions at $\sqrt{s} = 2.76 \text{ TeV}$ and 5.02 TeV . European Physical Journal C, 2020, 80, 534.	3.9	14
233	Letters, 2020, 125, 152001 Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at $\sqrt{s} = 2.76 \text{ TeV}$ and 5.02 TeV . European Physical Journal C, 2020, 80, 534.	3.9	14
234	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14

#	ARTICLE	IF	CITATIONS
235	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 153.	3.9	14
236	Search for light resonances decaying into pairs of muons as a signal of new physics. Journal of High Energy Physics, 2011, 2011, 1.	4.7	13
237	Measurement of the underlying event activity in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV with the novel jet-area/median approach. Journal of High Energy Physics, 2012, 2012, 1.	4.7	13
238	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
239	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
240	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
241	Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
242	Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
243	Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block" style="margin-bottom: 10px; font-family: serif; font-size: 1em; padding-left: 20px; margin-left: 20px; margin-right: 20px; } \rangle \langle \text{mml:mrow} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle \langle \text{mml:mi} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle p \langle / \text{mml:mi} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle \langle \text{mml:mi} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle p \langle / \text{mml:mi} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle \langle / \text{mml:mrow} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle \langle / \text{mml:math} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle$ Collisions at $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block" style="margin-bottom: 10px; font-family: serif; font-size: 1em; padding-left: 20px; margin-left: 20px; margin-right: 20px; } \rangle \langle \text{mml:mrow} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle \langle \text{mml:msqrt} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle \langle \text{mml:mrow} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle \langle \text{mml:mi} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle s \langle / \text{mml:mi} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle \langle / \text{mml:mrow} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle \langle / \text{mml:msqrt} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle \langle \text{mml:mo} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle = \langle / \text{mml:mo} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle \langle / \text{mml:math} \text{ style="margin-left: 20px; margin-right: 20px; } \rangle$ Physical Review Letters, 2020, 124, 202001.	4.7	13
245	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
246	Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	13
247	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. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
248	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
249	Search for dark matter produced in association with a Higgs boson decaying to $\tilde{l}^3\tilde{l}^3$ or $\tilde{l}, +\tilde{l}, \tilde{\chi}$ at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
250	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	12
251	Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	12
252	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 893.	3.9	12

#	ARTICLE	IF	CITATIONS
253	Investigation into the event-activity dependence of $\bar{p}(nS)$ relative production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	12
254	Constraints on the $\langle \text{mml:math} \rangle$ mml:msub mml:mi mml:mrow mml:mi c mml:mi mml:mn 1 mml:mn mml:mrow mml:msub mml:mi mml:mrow mml:mi c mml:mi mml:mn 2 mml:mn mml:mrow mml:msub versus $\langle \text{mml:math} \rangle$ mml:msub mml:mi mml:mrow mml:mi c mml:mi mml:mn mml:mrow mml:msub . Polarizations in Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Physical Review Letters</i> , 2020, 124, 1.	4.7	12
255	Development and validation of HERWIG ⁷ tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , 2021, 81, 312.	3.9	12
256	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	12
257	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}=7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	11
258	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow l^+l^-l^+l^-$ decay channel in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	11
259	Active CO ₂ two-phase loops for the AMS-02 tracker. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2014, 29, 413.	1.3	11
260	Search for electroweak production of charginos in final states with two \tilde{l} leptons in pp collisions at $s = 8 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	11
261	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	11
262	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s}=13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	11
263	A study of the radiation tolerance of poly-crystalline and single-crystalline CVD diamond to 800 MeV and 24 GeV protons. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 465103.	2.8	11
264	Search for supersymmetry in events with a photon, jets, $\text{mathrm}{b}$ -jets, and missing transverse momentum in proton-proton collisions at 13 TeV . <i>European Physical Journal C</i> , 2019, 79, 444.	3.9	11
265	Search for nonresonant Higgs boson pair production in the $\text{mathrm}{b}\overline{\text{mathrm}{b}}\text{mathrm}{b}\overline{\text{mathrm}{b}}$ final state at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	11
266	Study of the underlying event in top quark pair production in $\text{mathrm}{p}\text{mathrm}{p}$ collisions at 13 TeV . <i>European Physical Journal C</i> , 2019, 79, 123.	3.9	11
267	Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	11
268	Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	11
269	Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. <i>European Physical Journal C</i> , 2020, 80, 43.	3.9	11
270	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $s = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	10

#	ARTICLE	IF	CITATIONS
271	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2018, 78, 242.	3.9	10
272	Measurement of the Z/γ^* cross section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ and validation of Z/γ^* final state. European Physical Journal C, 2018, 78, 708.	3.9	10
273	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u}q\bar{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
274	Search for resonances decaying to a pair of Higgs bosons in the $b\bar{b}q\bar{q}$ final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
275	A Study of the Radiation Tolerance of CVD Diamond to 70 MeV Protons, Fast Neutrons and 200 MeV Pions. Sensors, 2020, 20, 6648.	3.8	10
276	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	10
277	Evidence for W^+W^- production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 1.	3.9	10
278	Diamond Particle Detectors for High Energy Physics. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1023-1028.	0.5	9
279	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2018, 78, 1.	3.9	9
280	Diamond detector technology, status and perspectives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 297-300.	1.6	9
281	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 1.	3.9	9
282	Search for a low-mass $t\bar{t}, b\bar{b}$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	9
283	Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and $\sqrt{s} = 13 \text{ TeV}$ Collisions at $\sqrt{s} = 13 \text{ TeV}$. Physics Review Letters, 2020, 125, 122001.	7.8	9
284	Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2021, 81, 688.	3.9	9
285	Total and Partial Fragmentation Cross-Section of 500 MeV/nucleon Carbon Ions on Different Target Materials. IEEE Transactions on Nuclear Science, 2013, 60, 4673-4682.	2.0	8
286	Search for a heavy resonance decaying into a Z boson and a W boson in 2q final states at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
287	Results on radiation tolerance of diamond detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 241-244.	1.6	8
288	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.	4.7	8

#	ARTICLE	IF	CITATIONS
289	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\text{ext}\{\text{p}\} \text{ext}\{\text{p}\}$ collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 773.	3.9	8
290	Dependence of inclusive jet production on the anti- k_T distance parameter in pp collisions at $\sqrt{\text{mathrm{s}}} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
291	Fabrication of a Hydrogenated Amorphous Silicon Detector in 3-D Geometry and Preliminary Test on Planar Prototypes. Instruments, 2021, 5, 32.	1.8	8
292	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	7
293	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ via Higgs boson decays to τ_ℓ , leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
294	Study of central exclusive "Equation missing" <!-- No EquationSource Format="TEX", only image --> production in proton-proton collisions at $\sqrt{s} = 5.02 \text{ TeV}$ and 13 TeV . European Physical Journal C, 2020, 80, 718.	3.9	7
295	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. Physical Review Letters, 2020, 125, 222001.	7.8	7
296	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	7
297	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	6
298	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in $\text{mathrm{p}}\text{mathrm{p}}$ collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2019, 79, 969.	3.9	6
299	Beam test performance of prototype silicon detectors for the Outer Tracker for the Phase-2 Upgrade of CMS. Journal of Instrumentation, 2020, 15, P03014-P03014.	1.2	6
300	Search for decays of the 125 GeV Higgs boson into a Z boson and a τ -or $\bar{\tau}$ meson. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
301	Modeling a Thick Hydrogenated Amorphous Silicon Substrate for Ionizing Radiation Detectors. Frontiers in Physics, 2020, 8, .	2.1	6
302	Determination of the strong coupling constant $\hat{\alpha}_S(m_Z)$ from measurements of inclusive $W\bar{W}$ and Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV . Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
303	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.		6
304	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
305	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
306	Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5

#	ARTICLE	IF	CITATIONS
307	Search for a heavy resonance decaying to a top quark and a vector-like top quark at $s = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	5
308	Measurement of the inclusive $t\overline{t}$ cross section in pp collisions at $\sqrt{s} = 5.02 \text{ TeV}$ using final states with at least one charged lepton. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	5
309	Search for a $W\gamma^2$ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	5
310	Search for the pair production of light top squarks in the $e\bar{\nu}\gamma\gamma$ final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	5
311	New test beam results of 3D and pad detectors constructed with poly-crystalline CVD diamond. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 958, 162675.	1.6	5
312	Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker. <i>Journal of Instrumentation</i> , 2020, 15, P04017-P04017.	1.2	5
313	Measurement of the cross section for $t\overline{t}$ production with additional jets and b jets in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	5
314	Measurement of energy flow at large pseudorapidities in pp collisions at $(\sqrt{s}) = 0.9 \text{ TeV}$ and 7 TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.		5
315	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ with the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2020, 80, 1164.	3.9	5
316	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	5
317	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ collected with a dedicated high-rate data stream. <i>Journal of High Energy Physics</i> , 2022, 2022, .	4.7	5
318	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	5
319	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	5
320	Search for pair production of excited top quarks in the lepton + jets final state. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	4
321	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>European Physical Journal C</i> , 2019, 79, 305.	3.9	4
322	Search for $W\gamma\gamma$ Boson Decays to Three Charged Pions. <i>Physical Review Letters</i> , 2019, 122, 151802.	7.8	4
323	The production of isolated photons in PbPb and pp collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	4
324	Search for supersymmetry in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ in events with high-momentum Z bosons and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	4

#	ARTICLE	IF	CITATIONS
325	Hydrogenated amorphous silicon detectors for particle detection, beam flux monitoring and dosimetry in high-dose radiation environment. <i>Journal of Instrumentation</i> , 2020, 15, C04005-C04005.	1.2	4
326	Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	4
327	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2022, 2022, .	4.7	4
328	Full Geant4 and FLUKA simulations of an e-LINAC for its use in particle detectors performance tests. <i>Journal of Instrumentation</i> , 2012, 7, P03013-P03013.	1.2	3
329	Search for top quark partners with charge 5/3 in proton-proton collisions at $s = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	3
330	Inclusive search for supersymmetry in pp collisions at $\sqrt{s}=13 \text{ TeV}$ using razor variables and boosted object identification in zero and one lepton final states. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	3
331	Search for excited leptons in $\tau^0 \rightarrow \ell^+ \ell^-$ final states in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	3
332	3D Detectors on Hydrogenated Amorphous Silicon for particle tracking in high radiation environment. <i>Journal of Physics: Conference Series</i> , 2020, 1561, 012016.	0.4	3
333	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of Instrumentation</i> , 2020, 15, P05002-P05002.	1.2	3
334	Study of the $B^0 \rightarrow \bar{\psi} \Lambda \bar{p}$ decay in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	3
335	Measurements of the $(p \rightarrow Z \bar{Z})$ production cross section and the $(Z \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $(\sqrt{s} = 13, \text{TeV})$. <i>Nature Physics</i> , 2018, 78, 1.	3	
336	Testing of planar hydrogenated amorphous silicon sensors with charge selective contacts for the construction of 3D-detectors. <i>Journal of Instrumentation</i> , 2022, 17, C03033.	1.2	3
337	Design implementation and test results of the RD53A, a 65 nm large scale chip for next generation pixel detectors at the HL-LHC. <i>Nature Physics</i> , 2018, .	2	
338	The DAQ and control system for the CMS Phase-1 pixel detector upgrade. <i>Journal of Instrumentation</i> , 2019, 14, P10017-P10017.	1.2	2
339	Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	2
340	Measurement of the top quark pair production cross section in dilepton final states containing one $\tilde{\ell}$ lepton in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	2
341	Measurements of angular distance and momentum ratio distributions in three-jet and $+ \text{two-jet}$ final states in pp collisions. <i>European Physical Journal C</i> , 2021, 81, 852.	3.9	2
342	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	2

#	ARTICLE	IF	CITATIONS
343	Measurement of the inclusive $\mathrm{t}\overline{\mathrm{t}}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	2
344	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2022, 2022, .	4.7	2
345	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	1
346	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	1
347	Observation of $B^0 \rightarrow \psi(2S) K^0 \pi^+ \pi^-$ and $B^0 \rightarrow \psi(2S) K^0 \pi^0$ decays. <i>European Physical Journal C</i> , 2022, 82, .	3.9	1
348	The calibration of a pixel sensor using both fluorescence and transmitted X-ray photons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 718, 336-338.	1.6	0