

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

654 papers	18,014 citations	64 h-index	101 g-index
685 ext. papers	20,858 ext. citations	4.7 avg, IF	3.38 L-index

#	Paper	IF	Citations
654	Properties and performance of the prototype instrument for the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 523, 50-95	1.2	516
653	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[Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 212	4.2	399
652	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	5.4	389
651	Study of high-p T charged particle suppression in PbPb compared to pp collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76\sim\mathrm{TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	316
650	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	5.4	261
649	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 235	4.2	250
648	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016 , 76, 155	4.2	250
647	Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , 2014 , 74, 3076	4.2	239
646	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	5.4	201
645	Suppression of non-prompt J/ψ prompt J/ψ and (Υ)(1S) in PbPb collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	184
644	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	4.2	183
643	Measurement of total and partial photon proton cross sections at 180 GeV center of mass energy. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1994 , 63, 391-408		175
642	Search for top-squark pair production in the single-lepton final state in pp collisions at ($\sqrt{s}=8\mathrm{TeV}$). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	162
641	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76\mathrm{TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	158
640	Search for dark matter and large extra dimensions in monojet events in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	155
639	Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 421	4.2	153
638	Search for heavy neutrinos and [Formula: see text] bosons with right-handed couplings in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 3149	4.2	149

637	Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	144
636	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at ($\sqrt{s} = 0.9, 2.76, \sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	133
635	Measurement of the F2 structure function in deep inelastic e + p scattering using 1994 data from the ZEUS detector at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996 , 72, 399-424		132
634	Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. <i>European Physical Journal C</i> , 2014 , 74, 2980	4.2	131
633	Measurement of the proton structure function F2 and at low and very low x at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 407, 432-448	4.2	123
632	Comparison of ZEUS data with standard model predictions for e + p → e + X scattering at high x and Q2. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997 , 74, 207-220		123
631	Measurement of the inclusive W and Z production cross sections in pp collisions at ($\sqrt{s} = 7$) TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	121
630	Prompt and non-prompt J/ψ production in pp collisions at ($\sqrt{s} = 7$) TeV. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	118
629	Measurement of the proton structure function F2 from the 1993 HERA data. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995 , 65, 379-398		116
628	A search for a doubly-charged Higgs boson in pp collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	111
627	Measurements of inclusive W and Z cross sections in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	104
626	Measurement of differential top-quark-pair production cross sections in pp collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	102
625	Evidence for the 125 GeV Higgs boson decaying to a pair of leptons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	101
624	Search for a light charged Higgs boson in top quark decays in pp collisions at ($\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	101
623	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , 2010 , 70, 1165-1192	4.2	99
622	Measurement of the differential cross section for top quark pair production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 542	4.2	98
621	Measurement of the diffractive structure function in deep inelastic scattering at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995 , 68, 569-584		97
620	Searches for long-lived charged particles in pp collisions at ($\sqrt{s} = 7$ and 8 TeV). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	96

619	Search for supersymmetry in hadronic final states using M T2 in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	92
618	Charged particle multiplicities in pp interactions at ($\sqrt{s} = 0.9$), 2.36, and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	89
617	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at ($\sqrt{s_{\text{NN}}}$) = 2.76 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	87
616	Measurement of elastic γ photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 437, 432-444	4.2	87
615	production in deep inelastic scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 407, 402-418	4.2	85
614	Search for supersymmetry in hadronic final states with missing transverse energy using the variables and b-quark multiplicity in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2568	4.2	82
613	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	81
612	Strange particle production in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	78
611	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	77
610	Measurement of the cross section for the reaction $\bar{p} \rightarrow J/\psi$ with the ZEUS detector at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 350, 120-134	4.2	75
609	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	74
608	Searches for invisible decays of the Higgs boson in pp collisions at (\sqrt{s}) = 7, 8, and 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	74
607	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	5.4	73
606	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at ($\sqrt{s_{\text{NN}}}$) = 2.76 TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	73
605	Measurement of elastic γ photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 377, 259-272	4.2	73
604	Study of the production of charged pions, kaons, and protons in pPb collisions at [Formula: see text]5.02[Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 2847	4.2	71
603	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	5.4	70
602	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	5.4	70

601	Measurement of the underlying event activity at the LHC with ($\sqrt{s} = 7$) TeV and comparison with ($\sqrt{s} = 0.9$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	70
600	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	5.4	69
599	J/ψ and $\Upsilon(2S)$ production in pp collisions at ($\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	69
598	Extraction of the gluon density of the proton at x. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 345, 576-588	4.2	69
597	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at ($\sqrt{s_{\mathrm{NN}}} = 5.02$) (TeV). <i>European Physical Journal C</i> , 2014 , 74, 1	4.2	67
596	Search for anomalous production of multilepton events in pp collisions at ($\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	65
595	Dijet cross sections in photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 348, 665-680	4.2	65
594	Exclusive π^0 production in deep inelastic electron-proton scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 356, 601-616	4.2	65
593	Charged-particle nuclear modification factors in PbPb and pPb collisions at ($\sqrt{s_{\mathrm{NN}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	64
592	Determination of the top-quark pole mass and strong coupling constant from the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 728, 496-517	4.2	64
591	Measurement of the ($\mathrm{t}\overline{\mathrm{t}}$) production cross section in the dilepton channel in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	64
590	Search for high-mass resonances in dilepton final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	63
589	Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets. <i>Physical Review Letters</i> , 2015 , 114, 051801	7.4	62
588	Observation of jet production in deep inelastic scattering with a large rapidity gap at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994 , 332, 228-243	4.2	62
587	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , 2020 , 80, 4	4.2	61
586	Study of double parton scattering using W + 2-jet events in proton-proton collisions at (\sqrt{s}) = 7 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	61
585	Search for a charged Higgs boson in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	61
584	Limits for the central production of Θ^+ and Ξ^{--} pentaquarks in 920-GeV pA collisions. <i>Physical Review Letters</i> , 2004 , 93, 212003	7.4	61

583	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	5-4	60
582	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	59
581	Suppression and azimuthal anisotropy of prompt and nonprompt [Formula: see text] production in PbPb collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 252	4-2	58
580	Search for anomalous ($\overline{t}t$) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	57
579	Kinematic distributions and nuclear effects of J/ ψ production in 920 GeV fixed-target proton-nucleus collisions. <i>European Physical Journal C</i> , 2009 , 60, 525-542	4-2	57
578	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	5-4	56
577	Measurement of the $W+W$ cross section in pp collisions at ($\sqrt{s} = 7$ TeV) and limits on anomalous WW and WWZ couplings. <i>European Physical Journal C</i> , 2013 , 73, 1	4-2	56
576	Long-range and short-range dihadron angular correlations in central PbPb collisions at ($\sqrt{s_{\text{NN}}}$) = 2.76 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	56
575	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. <i>European Physical Journal C</i> , 2015 , 75, 251	4-2	55
574	Measurement of the diffractive structure function $F_2 D(4)$ at HERA. <i>European Physical Journal C</i> , 1998 , 1, 81-96	4-2	55
573	Search for new phenomena with the variable in the all-hadronic final state produced in proton-proton collisions at. <i>European Physical Journal C</i> , 2017 , 77, 710	4-2	54
572	Diffractive hard photoproduction at HERA and evidence for the gluon content of the pomeron. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 356, 129-146	4-2	53
571	Search for ($\{B\}_{\text{meson}}^0 \rightarrow \{B\}_{\text{meson}}^0$) and $B^0 \rightarrow \{B\}_{\text{meson}}^0$ decays. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	52
570	Rapidity gaps between jets in photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 369, 55-68	4-2	51
569	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 147	4-2	50
568	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at ($\sqrt{s} = 7$ TeV) and first determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , 2013 , 73, 1	4-2	50
567	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	5-4	50
566	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. <i>European Physical Journal C</i> , 2013 , 73, 2469	4-2	49

565	Measurement of elastic J/ψ photoproduction at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997 , 75, 215-228		49
564	Measurement of the diffractive structure function $F_2^D(4)$ at HERA 1998 , 1, 81		49
563	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 237	4.2	48
562	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. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	48
561	Measurement of the $(\bar{t}t)$ 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	5.4	48
560	Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	46
559	Measurement of the relative prompt production rate of $t\bar{t}$ and $b\bar{b}$ in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2251	4.2	46
558	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	46
557	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	5.4	46
556	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	45
555	Exclusive $B \rightarrow D^* \ell \bar{\nu}_\ell$ production in proton-proton collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	45
554	Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	45
553	Search for exclusive or semi-exclusive $t\bar{t}$ production and observation of exclusive and semi-exclusive e^+e^- production in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	45
552	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2283	4.2	45
551	Measurement of the $X(3872)$ production cross section via decays to $J/\psi \pi^0$ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	44
550	Search for heavy bottom-like quarks in 4.9 fb $^{-1}$ of pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	44
549	Charged particle transverse momentum spectra in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	44
548	Measurement of the $(\overline{t}t)$ production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	43

547	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	43
546	Search for leptonic decays of W^\pm bosons in pp collisions at $(\sqrt{s} = \{7\})$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	43
545	Event activity dependence of $(Y)(nS)$ production in $(\sqrt{s_{NN}}) = 5.02$ TeV pPb and $(\sqrt{s}) = 2.76$ TeV pp collisions. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	42
544	Search for additional neutral MSSM Higgs bosons in the $\tau\tau$ final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	42
543	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. <i>European Physical Journal C</i> , 2015 , 75, 186	4-2	41
542	Measurement of prompt J/ψ pair production in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	41
541	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	41
540	Measurement of the inelastic proton-proton cross section at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	41
539	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	40
538	Search for displaced supersymmetry in events with an electron and a muon with large impact parameters. <i>Physical Review Letters</i> , 2015 , 114, 061801	7-4	39
537	Studies of jet mass in dijet and $W/Z + \text{jet}$ events. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	39
536	Study of the underlying event at forward rapidity in pp collisions at $(\sqrt{s}=0.9, 2.76, \text{and } 7 \text{ TeV})$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	39
535	Measurement of the ZZ production cross section and search for anomalous couplings in $2\ell\ell$ final states in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	39
534	Search for same-sign top-quark pair production at $(\sqrt{s} = 7)$ TeV and limits on flavour changing neutral currents in the top sector. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	39
533	Search for natural and split supersymmetry in proton-proton collisions at $(\sqrt{s}=13)$ TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	39
532	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	5-4	38
531	Search for microscopic black holes in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	38
530	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $(\sqrt{s} = 7; \text{TeV})$. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	38

529	Study of D^* (2010) Ξ production in ep collisions at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 349, 225-237	4.2	38
528	Measurement of the [Formula: see text] cross section in pp collisions at [Formula: see text] TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , 2016 , 76, 401	4.2	38
527	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 288	4.2	37
526	Measurement of the differential cross section and charge asymmetry for inclusive [Formula: see text] production at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2016 , 76, 469	4.2	37
525	Measurement of associated W + charm production in pp collisions at (\sqrt{s}) = 7 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	37
524	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	5.4	37
523	Measurement of masses in the [Formula: see text] system by kinematic endpoints in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2494	4.2	37
522	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at (\sqrt{s})=7) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	37
521	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	4.2	37
520	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at (\sqrt{s})=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	37
519	Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. <i>European Physical Journal C</i> , 2018 , 78, 509	4.2	37
518	Measurement of the top-quark mass in ($\overline{\text{t}}\text{t}$) events with dilepton final states in pp collisions at (\sqrt{s})=7 TeV). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	36
517	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	4.2	36
516	A Measurement of the Ξ to J/ψ production ratio in 920 GeV proton-nucleus interactions. <i>European Physical Journal C</i> , 2007 , 49, 545-558	4.2	36
515	Measurement of the reaction in deep inelastic e+p scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 380, 220-234	4.2	36
514	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 451	4.2	36
513	Search for disappearing tracks in proton-proton collisions at (\sqrt{s})=8) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	35
512	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 13	4.2	35

511	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	5-4	35
510	Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5-4	35
509	Measurement of the ($\mathrm{t}\bar{\mathrm{t}}$) production cross section in pp collisions at ($\sqrt{s}=7$) TeV using the kinematic properties of events with leptons and jets. <i>European Physical Journal C</i> , 2011 , 71, 1	4-2	35
508	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at ($\sqrt{s}=8$) TeV and cross section ratios to 2.76 and 7 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5-4	34
507	Search for new physics in same-sign dilepton events in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 439	4-2	34
506	Search for microscopic black holes in pp collisions at ($\sqrt{s} = \text{7TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	34
505	Search for heavy stable charged particles in pp collisions at ($\sqrt{s} = 7;\text{TeV}$). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	34
504	Search for decays of stopped long-lived particles produced in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 151	4-2	33
503	Search for new physics in events with same-sign dileptons and b jets in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	33
502	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	33
501	Search for a light charged Higgs boson decaying to ($\mathrm{c}\overline{\mathrm{s}}$) in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1-37	5-4	33
500	Dijet angular distributions in direct and resolved photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 384, 401-413	4-2	33
499	Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	32
498	Search for resonances in the dilepton mass distribution in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	32
497	Search for supersymmetry in pp collisions at ($\sqrt{s} = 7$) TeV in events with a single lepton, jets, and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	32
496	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	5-4	32
495	Inclusive jet differential cross sections in photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 342, 417-432	4-2	32
494	Observation of events with an energetic forward neutron in deep inelastic scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 384, 388-400	4-2	31

493	Measurement of the $(\overline{\text{t}}\text{t})$ production cross section in the $\text{e}\overline{\text{e}}$ channel in proton-proton collisions at $(\sqrt{s}=7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	30
492	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	30
491	Inclusive b-jet production in pp collisions at $(\sqrt{s} = 7\text{TeV})$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	30
490	Observation of Z decays to four leptons with the CMS detector at the LHC. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	30
489	Measurement of the top-quark mass in $(\overline{\text{t}}\text{t})$ events with lepton+jets final states in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	30
488	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $(\sqrt{s} = 7\text{TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	30
487	Measurement of charged and neutral current e-p deep inelastic scattering cross sections at high Q ² . <i>Physical Review Letters</i> , 1995 , 75, 1006-1011	7.4	30
486	Inclusive charged particle distributions in deep inelastic scattering events at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996 , 70, 1-15		30
485	Measurements of the production cross section and the branching fraction, and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2018 , 78, 165	4.2	29
484	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or B b-quark jets in 7 TeV pp collisions using the variable \cancel{E}_T . <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	29
483	Observation of Y(1S) pair production in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	29
482	Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 3060	4.2	29
481	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 3129	4.2	29
480	Optical properties of Ir ²⁺ -implanted silica glass. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 175-177, 490-494	1.2	29
479	Measurement of multiplicity and momentum spectra in the current fragmentation region of the Breit frame at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995 , 67, 93-107		29
478	Search for vector-like T and B quark pairs in final states with leptons at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	29
477	Search for heavy Majorana neutrinos in $\text{e}\overline{\text{e}}\text{e}^+\text{e}^-$ jets and $\text{e}\overline{\text{e}}\text{e}^+\text{e}^-$ jets events in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	28
476	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	28

475	Study of the photon remnant in resolved photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 354, 163-177	4.2	28
474	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	28
473	Measurement of the production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. <i>European Physical Journal C</i> , 2019 , 79, 368	4.2	27
472	Evidence for exclusive $B \rightarrow W + W$ production and constraints on anomalous quartic gauge couplings in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	27
471	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at ($\sqrt{s}=7$;TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	27
470	Measurement of ($\overline{B} B$) angular correlations based on secondary vertex reconstruction at ($\sqrt{s} = 7, \text{TeV}$). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	27
469	Measurement of prompt and nonprompt [Formula: see text] production in [Formula: see text] and [Formula: see text] collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 269	4.2	26
468	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 TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	26
467	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	26
466	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	5.4	26
465	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at ($\sqrt{s} = 7, \text{TeV}$). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	26
464	Angular distributions of leptons from J/ψ produced in 920 GeV fixed-target proton-nucleus collisions. <i>European Physical Journal C</i> , 2009 , 60, 517-524	4.2	26
463	Comparison of energy flows in deep inelastic scattering events with and without a large rapidity gap. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994 , 338, 483-496	4.2	26
462	A measurement of the Higgs boson mass in the diphoton decay channel. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 805, 135425	4.2	25
461	Measurement of the W-boson helicity in top-quark decays from ($\overline{t} t$) production in lepton+jets events in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	25
460	Search for top squark pair production in pp collisions at ($\sqrt{s}=13$) TeV using single lepton events. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	25
459	Measurements of the [Formula: see text][Formula: see text] production cross sections in the [Formula: see text] channel in proton-proton collisions at [Formula: see text] and [Formula: see text] and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , 2015 , 75, 511	4.2	25
458	Search for resonant ($\overline{t} t$) production in lepton+jets events in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	25

457	Observation of isolated high-ET photons in photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 413, 201-216	4.2	25
456	Measurement of D0, D+, Ds + and D*+ production in fixed target 920 GeV proton-nucleus collisions. <i>European Physical Journal C</i> , 2007 , 52, 531-542	4.2	25
455	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	4.2	25
454	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in collisions at 8. <i>European Physical Journal C</i> , 2018 , 78, 701	4.2	25
453	Search for charged Higgs bosons in the $H^\pm \rightarrow B^\pm B$ decay channel in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	24
452	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 325	4.2	24
451	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 75	4.2	24
450	Measurement of inclusive jet production and nuclear modifications in pPb collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 372	4.2	24
449	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2674	4.2	24
448	Measurement of the $Z/\gamma + b$ -jet cross section in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	24
447	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	24
446	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2\ell 2\ell$ channel in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	24
445	Forward-Backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 718, 752-772	4.2	24
444	Event shape analysis of deep inelastic scattering events with a large rapidity gap at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 421, 368-384	4.2	24
443	J/ψ production via B decays in 920 GeV pA interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003 , 561, 61-72	4.2	24
442	Decay $Z \rightarrow \nu\bar{\nu}$ in the standard model. <i>Physical Review D</i> , 1999 , 60,	4.9	24
441	Measurement of Bs from jet rates in deep inelastic scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 363, 201-216	4.2	24
440	Diffraction dijet cross sections in photoproduction at HERA 1998 , 5, 41		24

439	Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	24
438	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	1	23
437	Search for $W \rightarrow tb$ decays in the lepton + jets final state in pp collisions at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	23
436	Measurement of three-jet distributions in photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 443, 394-408	4.2	23
435	K^*0 and Λ meson production in proton-nucleus interactions at ($\sqrt{s}=41.6$ text{GeV}). <i>European Physical Journal C</i> , 2007 , 50, 315-328	4.2	23
434	Observation of hard scattering in photoproduction events with a large rapidity gap at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 346, 399-414	4.2	23
433	Search for third-generation scalar leptoquarks decaying to a top quark and a lepton at. <i>European Physical Journal C</i> , 2018 , 78, 707	4.2	23
432	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying Λ leptons at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	23
431	Measurement of the [Formula: see text] production cross section using events in the [Formula: see text] final state in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 172	4.2	22
430	Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	22
429	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at. <i>European Physical Journal C</i> , 2017 , 77, 845	4.2	22
428	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	22
427	Measurement of Bose-Einstein correlations in pp collisions at ($\sqrt{s}=0.9$) and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	22
426	Rare top quark decay $t \rightarrow u1u2$ in the standard model. <i>Physical Review D</i> , 2006 , 73,	4.9	22
425	Neutral strange particle production in deep inelastic scattering at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995 , 68, 29-42		22
424	Measurement of the WZ production cross section in pp collisions at [Formula: see text] and 8[Formula: see text] and search for anomalous triple gauge couplings at [Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 236	4.2	21
423	A search for new phenomena in pp collisions at [Formula: see text] in final states with missing transverse momentum and at least one jet using the [Formula: see text] variable. <i>European Physical Journal C</i> , 2017 , 77, 294	4.2	21
422	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 66	4.2	21

4 ²¹	Correlations between jets and charged particles in PbPb and pp collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	21
4 ²⁰	Measurement of the [Formula: see text] production cross section in the all-jets final state in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 128	4.2	21
4 ¹⁹	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at (\sqrt{s}) = 7 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	21
4 ¹⁸	Measurement of the top-quark mass in all-jets [Formula: see text] events in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2014 , 74, 2758	4.2	21
4 ¹⁷	Measurement of the ($\mathrm{t}\bar{\mathrm{t}}$) production cross section in the $\mu\mu$ jets channel in pp collisions at ($\sqrt{s}=7$ mbox{TeV}). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	21
4 ¹⁶	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. <i>European Physical Journal C</i> , 2017 , 77, 578	4.2	21
4 ¹⁵	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	21
4 ¹⁴	Search for a Higgs boson in the decay channel $H \rightarrow ZZ(*) \rightarrow q(\overline{\mathrm{q}}) \mu\mu$ in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	21
4 ¹³	Inclusive b-hadron production cross section with muons in pp collisions at ($\sqrt{s}=7$; {TeV}). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	21
4 ¹²	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	21
4 ¹¹	W production and the search for events with an isolated high-energy lepton and missing transverse momentum at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 471, 411-428	4.2	21
4 ¹⁰	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	21
4 ⁰⁹	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	5.4	21
4 ⁰⁸	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	20
4 ⁰⁷	Measurement of [Formula: see text] production with additional jet activity, including [Formula: see text] quark jets, in the dilepton decay channel using pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 379	4.2	20
4 ⁰⁶	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 140	4.2	20
4 ⁰⁵	Measurement of the production cross section for pairs of isolated photons in pp collisions at ($\sqrt{s}=7$;TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	20
4 ⁰⁴	Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	20

403	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at. <i>European Physical Journal C</i> , 2017 , 77, 636	4.2	20
402	Bunched beam test of the CMS drift tubes local muon trigger. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 534, 441-485	1.2	20
401	Effective Lagrangian description of the lepton flavor violating decays $Z \rightarrow \ell \ell \gamma$. <i>Physical Review D</i> , 2002 , 65,	4.9	20
400	Inclusive transverse momentum distributions of charged particles in diffractive and non-diffractive photoproduction at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995 , 67, 227-237		20
399	Bounding the top and bottom electric dipole moments from neutron experimental data. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008 , 35, 025004	2.9	20
398	Search for anomalous single top quark production in association with a photon in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	20
397	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	5.4	20
396	Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	20
395	Measurements of the [Formula: see text] production cross section in lepton+jets final states in pp collisions at 8 [Formula: see text] and ratio of 8 to 7 [Formula: see text] cross sections. <i>European Physical Journal C</i> , 2017 , 77, 15	4.2	19
394	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	19
393	Search for resonant and nonresonant Higgs boson pair production in the ($\overline{\text{b}} \text{b} \ell \ell$) final state in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	19
392	Search for massive WH resonances decaying into the [Formula: see text] final state at [Formula: see text] [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 237	4.2	19
391	Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 277	4.2	19
390	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	19
389	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	19
388	Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	19
387	Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s}=0.9$) and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	19
386	Production of the charmonium states χ_1 and χ_2 in proton nucleus interactions at $\sqrt{s}=41.6$ GeV. <i>Physical Review D</i> , 2009 , 79,	4.9	19

385	Study of photon dissociation in diffractive photoproduction at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997 , 75, 421-435		19
384	Differential cross sections of photoproduction in ep collisions at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 401, 192-206	4.2	19
383	Measurement of differential cross sections for boson production in association with jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 965	4.2	19
382	Search for new physics in dijet angular distributions using proton-proton collisions at and constraints on dark matter and other models. <i>European Physical Journal C</i> , 2018 , 78, 789	4.2	19
381	Search for lepton flavour violating decays of the Higgs boson to $\mu\mu$ and $e\mu$ in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	19
380	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 364	4.2	18
379	Study of Z production in PbPb and pp collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76$) TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	18
378	Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques. <i>Journal of Instrumentation</i> , 2020 , 15, P06005-P06005	1	18
377	Observation of top quark pairs produced in association with a vector boson in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	18
376	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two μ leptons and two jets in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	18
375	. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	18
374	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	18
373	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying μ leptons and two jets in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	18
372	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	18
371	Measurement of the $\sigma_{\mathrm{had}}^{\mathrm{ep}}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006 , 638, 407-414	4.2	18
370	Study of charged-current ep interactions at $Q^2 > 200 \text{ GeV}^2$ with the ZEUS detector at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996 , 72, 47-64		18
369	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	5.4	18
368	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	5.4	18

367	Search for $(\overline{\mathrm{t}}\mathrm{t})$ production in the (H) to $(\overline{\mathrm{b}}\mathrm{b})$ decay channel with leptonic $(\overline{\mathrm{t}}\mathrm{t})$ decays in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	17
366	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s}=13$. <i>European Physical Journal C</i> , 2018 , 78, 291	4.2	17
365	Measurement of the inclusive jet cross section in pp collisions at $(\sqrt{s}=2.76, \text{TeV})$. <i>European Physical Journal C</i> , 2016 , 76, 1	4.2	17
364	Search for $(\overline{\mathrm{t}}\mathrm{t})$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	17
363	Searches for pair production of third-generation squarks in $(\overline{\mathrm{t}}\mathrm{t})$ pp collisions. <i>European Physical Journal C</i> , 2017 , 77, 327	4.2	17
362	Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	17
361	Search for stopped long-lived particles produced in pp collisions at $(\sqrt{s}=7\text{TeV})$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	17
360	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $(\sqrt{s}=7\text{TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	17
359	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	17
358	Measurement of double-differential cross sections for top quark pair production in pp collisions at $(\sqrt{s}=7)$ TeV and impact on parton distribution functions. <i>European Physical Journal C</i> , 2017 , 77, 459	4.2	16
357	Searches for physics beyond the standard model with the variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2020 , 80, 3	4.2	16
356	Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	16
355	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $(\overline{\mathrm{t}}\mathrm{t})$ leptons in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	16
354	Measurement of WZ and ZZ production in pp collisions at $(\sqrt{s}=13)$ TeV in final states with b-tagged jets. <i>European Physical Journal C</i> , 2014 , 74, 2973	4.2	16
353	Search for exotic resonances decaying into WZ/ZZ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	16
352	Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	16
351	Polarization of $(\overline{\mathrm{t}}\mathrm{t})$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006 , 638, 415-421	4.2	16
350	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	16

349	Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	16
348	Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	16
347	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	16
346	Measurements of ($\overline{\text{t}}\text{t}$) differential cross sections in proton-proton collisions at ($\sqrt{s}=13$) TeV using events containing two leptons. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	15
345	Measurements of the associated production of a Z boson and b jets in pp collisions at. <i>European Physical Journal C</i> , 2017 , 77, 751	4.2	15
344	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	15
343	Search for new particles decaying to a jet and an emerging jet. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	15
342	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at (\sqrt{s}) = 7 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	15
341	Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	15
340	Search for supersymmetry in pp collisions at [Formula: see text] TeV in events with a single lepton, jets, and missing transverse momentum. <i>European Physical Journal C</i> , 2013 , 73, 2404	4.2	15
339	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	15
338	Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	15
337	Measurements of $\text{t}\overline{\text{t}}\text{H}$ Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel. <i>Physical Review Letters</i> , 2020 , 125, 061801	7.4	15
336	Search for high-mass resonances in final states with a lepton and missing transverse momentum at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	15
335	Measurement of the jet mass in highly boosted [Formula: see text] events from pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 467	4.2	14
334	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	14
333	Pileup mitigation at CMS in 13 TeV data. <i>Journal of Instrumentation</i> , 2020 , 15, P09018-P09018	1	14
332	Search for disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 806, 135502	4.2	14

331	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 460	4.2	14
330	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 ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	14
329	Measurement of the (Λ_{b}^0) lifetime in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	14
328	Measurement of the ($\mathrm{t}\overline{\mathrm{t}}$) production cross section in the all-jet final state in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	14
327	Measurement of the ($\mathrm{t}\overline{\mathrm{t}}$) production cross section using events with one lepton and at least one jet in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	14
326	Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 809, 135710	4.2	14
325	Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	14
324	Evidence for Higgs boson decay to a pair of muons. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	14
323	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
322	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two leptons in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
321	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
320	Search for supersymmetry in events with a lepton pair and missing transverse momentum in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
319	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. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
318	Search for resonant ($\mathrm{t}\overline{\mathrm{t}}$) production in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	13
317	Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow J/\psi \ell \ell$ and $B \rightarrow J/\psi \ell \ell$ and ($\mathrm{mathcal{B}}\left(\mathrm{B}\right)_{\mathrm{c}}^{\mathrm{pm}}\rightarrow \mathrm{J}/\psi \left\{\pi\right\}^{\mathrm{pm}}\left\{\pi\right\}^{\mathrm{pm}}\left\{\pi\right\}^{\mathrm{mp}}\right)/\mathrm{mathcal{B}}\left(\mathrm{B}\right)_{\mathrm{c}}^{\mathrm{pm}}\rightarrow \mathrm{J}/\psi \left\{\pi\right\}^{\mathrm{pm}}\left\{\pi\right\}^{\mathrm{pm}}\right)$ in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	13
316	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	13
315	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 325	4.2	13
314	Measurement of exclusive photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 702	4.2	13

313	Measurement of the top quark mass in the all-jets final state at and combination with the lepton+jets channel. <i>European Physical Journal C</i> , 2019 , 79, 313	4.2	13
312	Probing color coherence effects in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 2901	4.2	13
311	Search for a fermiophobic Higgs boson in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	13
310	Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	13
309	Measurement of the mass difference between top and antitop quarks. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	13
308	Search for lepton flavor violation in ep collisions at 300 GeV center of mass energy. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997 , 73, 613-628		13
307	Improved measurement of the $b\bar{b}$ production cross section in 920 GeV fixed-target proton-nucleus collisions. <i>Physical Review D</i> , 2006 , 73,	4.9	13
306	Measurement of ($\bar{t}t$) normalised multi-differential cross sections in ($p\bar{p}$) collisions at ($\sqrt{s}=13$, {TeV}), 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	4.2	13
305	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	13
304	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at ($\sqrt{s_{\mathrm{N};\mathrm{N}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	13
303	Search for ($t\bar{t}\mathrm{H}$) production in the all-jet final state in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	13
302	Measurement of the top quark mass with lepton+jets final states using collisions at. <i>European Physical Journal C</i> , 2018 , 78, 891	4.2	13
301	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 280	4.2	12
300	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	12
299	Measurement of normalized differential ($t\bar{t}$) cross sections in the dilepton channel from pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12
298	Measurement of the production cross section for ($Z\gamma$ to $\nu\bar{\nu}$) in pp collisions at ($\sqrt{s} = 7$) TeV and limits on $ZZ\gamma$ and $Z\gamma\gamma$ triple gauge boson couplings. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	12
297	Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	12
296	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	12

295	Search for quark compositeness in dijet angular distributions from pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	12
294	Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at ($\sqrt{s}=7$;TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	12
293	Search for light resonances decaying into pairs of muons as a signal of new physics. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	12
292	A search for excited fermions in electron-proton collisions at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995 , 65, 627-647		12
291	Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12
290	Studies of η and mesons including the observation of the decay in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 939	4.2	12
289	Electroweak production of two jets in association with a Z boson in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>European Physical Journal C</i> , 2018 , 78, 1	4.2	12
288	Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12
287	Search for new physics in the monophoton final state in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
286	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at ($\sqrt{s} = 13$) TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	11
285	Measurement of associated Z + charm production in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 287	4.2	11
284	Phenomenological MSSM interpretation of CMS searches in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	11
283	Measurement of jet multiplicity distributions in $t\bar{t}$ production in pp collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2014 , 74, 3014	4.2	11
282	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
281	Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
280	Search for new physics with dijet angular distributions in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
279	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	11
278	Measurement of the underlying event activity in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV with the novel jet-area/median approach. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	11

277	Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at ($\sqrt{s}=7$) TeV. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	11
276	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	11
275	Observation of scaling violations in scaled momentum distributions at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 414, 428-443	4.2	11
274	Measurements of differential Z boson production cross sections in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	11
273	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P02027-P02027	1	11
272	Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC. <i>Journal of Instrumentation</i> , 2021 , 16, P05014	1	11
271	Charged-particle nuclear modification factors in XeXe collisions at ($\sqrt{s_{\mathrm{NN}}}=5.44$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	11
270	Search for Z resonances using leptonic and hadronic final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	11
269	Search for the decay of a Higgs boson in the $\tau\tau$ channel in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	11
268	Search for beyond the standard model Higgs bosons decaying into a ($\mathrm{b}\overline{\mathrm{b}}$) pair in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	11
267	Measurements of the pp \rightarrow WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	10
266	Search for new neutral Higgs bosons through the ($\mathrm{H}\rightarrow\mathrm{ZA}\rightarrow\ell\ell^{+}\ell\ell^{-}\mathrm{b}\overline{\mathrm{b}}$) process in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	10
265	A multi-dimensional search for new heavy resonances decaying to boosted $\ell\ell$, $\tau\tau$, or boson pairs in the dijet final state at 13 TeV. <i>European Physical Journal C</i> , 2020 , 80, 237	4.2	10
264	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at ($\sqrt{s}=8$) TeV using $H \rightarrow WW$ decays. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
263	Search for excited leptons in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
262	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	10
261	Search for physics beyond the standard model in events with leptons, jets, and large transverse momentum imbalance in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2493	4.2	10
260	Measurements of jet charge with dijet events in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10

259	Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
258	Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
257	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	10
256	Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	10
255	Angular and current-target correlations in deep inelastic scattering at HERA. <i>European Physical Journal C</i> , 2000 , 12, 53-68	4.2	10
254	Measurement of properties of ($\mathrm{B}_{\mathrm{s}}^0 \rightarrow \mu^+ \mu^-$) decays and search for $\mathrm{B}_0 \rightarrow \mu^+ \mu^-$ with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	10
253	Measurement of the $\Upsilon(1S)$ pair production cross section and search for resonances decaying to $\Upsilon(1S) \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 808, 135578	4.2	10
252	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
251	Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	10
250	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. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	10
249	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
248	A search for the standard model Higgs boson decaying to charm quarks. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
247	Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	9
246	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	9
245	Measurement of b hadron lifetimes in pp collisions at. <i>European Physical Journal C</i> , 2018 , 78, 457	4.2	9
244	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. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
243	Search for associated production of dark matter with a Higgs boson decaying to ($\mathrm{b} \overline{\mathrm{b}}$) or $\mathrm{t} \overline{\mathrm{t}}$ at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9
242	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9

241	Measurement of electroweak-induced production of $W\ell$ with two jets in pp collisions at ($\sqrt{s}=8$) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9
240	Search for a light pseudoscalar Higgs boson in the boosted $\ell\ell$ final state in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
239	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $[\text{Formula: see text}]$ pair in proton-proton collisions at $[\text{Formula: see text}]$. <i>European Physical Journal C</i> , 2016 , 76, 317	4.2	9
238	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	9
237	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 697	4.2	9
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235	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. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
234	Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
233	Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
232	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
231	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at ($\sqrt{s_{\text{NN}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	8
230	Search for s channel single top quark production in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	8
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228	Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	8
227	Measurement of the top quark mass using single top quark events in proton-proton collisions at $[\text{Formula: see text}]$ TeV. <i>European Physical Journal C</i> , 2017 , 77, 354	4.2	8
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220	Search for electroweak production of charginos in final states with two leptons in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5-4	7
219	Measurement of the production cross section of a W boson in association with two b jets in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 92	4-2	7
218	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $(\sqrt{s}=13, \text{TeV})$. <i>European Physical Journal C</i> , 2019 , 79, 1	4-2	7
217	Search for rare decays of and Higgs bosons to and a photon in proton-proton collisions at $= 13$. <i>European Physical Journal C</i> , 2019 , 79, 94	4-2	7
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214	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $(\sqrt{\text{mathrm{s}}}) = 13$ TeV and constraints on anomalous quartic couplings. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5-4	7
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201	Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	7
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195	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
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175	Search for new physics in top quark production in dilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 886	4.2	6
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139	Search for a W' 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	5-4	4
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137	Search for high-mass Z' resonances in e^+e^- and $\mu^+\mu^-$ final states in proton-proton collisions at $(\sqrt{s}=8)$ and 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5-4	4
136	Search for CP violation in $(\overline{t}t)$ production and decay in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5-4	4
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116	Search for pair production of excited top quarks in the lepton + jets final state. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	3

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89	Search for decays of the 125 GeV Higgs boson into a Z boson and a Υ meson. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5-4	2
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