

Joao Varela

List of Publications by Citations

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475
papers

17,096
citations

63
h-index

110
g-index

502
ext. papers

19,068
ext. citations

4.1
avg, IF

6.09
L-index

#	Paper	IF	Citations
475	Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015 , 114, 191803	7.4	709
474	CMS Physics Technical Design Report, Volume II: Physics Performance. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007 , 34, 995-1579	2.9	602
473	Determination of jet energy calibration and transverse momentum resolution in CMS. <i>Journal of Instrumentation</i> , 2011 , 6, P11002-P11002	1	463
472	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	4.2	399
471	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , 2012 , 7, P10002-P10002	1	398
470	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
469	Study of high- p_T charged particle suppression in PbPb compared to pp collisions at ($\sqrt{s_{\text{NN}}}=2.76\text{--}7.0\text{ TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	316
468	Study of the isospin symmetry breaking in the light quark sea of the nucleon from the Drell-Yan process. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994 , 332, 244-250	4.2	263
467	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
466	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at ($\sqrt{s}=7$) and 8 TeV. <i>European Physical Journal C</i> , 2015 , 75, 235	4.2	250
465	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016 , 76, 155	4.2	250
464	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
463	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
462	Search for supersymmetry at the LHC in events with jets and missing transverse energy. <i>Physical Review Letters</i> , 2011 , 107, 221804	7.4	188
461	The production of Λ and $\bar{\Lambda}$ in 200 GeV/nucleon oxygen-uranium interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989 , 220, 471-478	4.2	186
460	Suppression of non-prompt J/ψ and $\Upsilon(1S)$ in PbPb collisions at ($\sqrt{s_{\text{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	184
459	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

458	Observation of sequential Λ suppression in PbPb collisions. <i>Physical Review Letters</i> , 2012 , 109, 222301	7.4	172
457	Search for top-squark pair production in the single-lepton final state in pp collisions at $(\sqrt{s}=8 \text{ TeV})$. <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	162
456	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $(\sqrt{s_{NN}}=2.76 \text{ TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	158
455	Search for dark matter and large extra dimensions in monojet events in pp collisions at $(\sqrt{s} = 7) \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	155
454	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
453	Angular distributions of muon pairs produced by 194 GeV/c negative pions. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1986 , 31, 513-526		142
452	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $(\sqrt{s} = 0.9, 2.76, 7 \text{ TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	133
451	Measurement of the inclusive W and Z production cross sections in pp collisions at $(\sqrt{s} = 7) \text{ TeV}$ with the CMS experiment. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	121
450	Prompt and non-prompt J/ ψ production in pp collisions at $(\sqrt{s} = 7) \text{ TeV}$. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	118
449	Search for dijet resonances in 7 TeV pp collisions at CMS. <i>Physical Review Letters</i> , 2010 , 105, 211801	7.4	116
448	Search for dark matter and large extra dimensions in pp collisions yielding a photon and missing transverse energy. <i>Physical Review Letters</i> , 2012 , 108, 261803	7.4	116
447	A search for a doubly-charged Higgs boson in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	111
446	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	111
445	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	5.4	104
444	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	4.2	102
443	Search for a light charged Higgs boson in top quark decays in pp collisions at $(\sqrt{s} = 7; \text{TeV})$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	101
442	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , 2010 , 70, 11654-1192	4.2	99
441	CMS Physics Technical Design Report: Addendum on High Density QCD with Heavy Ions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007 , 34, 2307-2455	2.9	99

440	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
439	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
438	Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2016 , 116, 172302	7.4	90
437	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
436	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
435	Study of J/ψ production in p-U, O-U and S-U interactions at 200 GeV per nucleon. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 255, 459-465	4.2	83
434	Design and evaluation of the clear-PEM scanner for positron emission mammography. <i>IEEE Transactions on Nuclear Science</i> , 2006 , 53, 71-77	1.7	82
433	Performance of $\bar{\tau}$ -lepton reconstruction and identification in CMS. <i>Journal of Instrumentation</i> , 2012 , 7, P01001-P01001	1	81
432	TOFPET ASIC for PET applications. <i>Journal of Instrumentation</i> , 2013 , 8, C02050-C02050	1	79
431	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
430	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
429	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
428	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
427	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
426	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
425	A new boson with a mass of 125 GeV observed with the CMS experiment at the Large Hadron Collider. <i>Science</i> , 2012 , 338, 1569-75	33.3	71
424	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
423	Clear-PEM, a dedicated PET camera for mammography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002 , 486, 1-6	1.2	70

422	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
421	Measurement of the top quark mass using proton-proton data at ($\sqrt{s}=7$ and 8 TeV). <i>Physical Review D</i> , 2016 , 93,	4.9	69
420	J/ψ and Υ production in pp collisions at ($\sqrt{s} = 7\text{TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	69
419	J/ψ and Drell-Yan production in S-U interactions at 200 GeV per nucleon. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 449, 128-136	4.2	68
418	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at ($\sqrt{s_{\text{NN}}} = 5.02$) (,text {TeV}). <i>European Physical Journal C</i> , 2014 , 74, 1	4.2	67
417	Study of Z Boson Production in PbPb Collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. <i>Physical Review Letters</i> , 2011 , 106, 212301	7.4	66
416	Search for anomalous production of multilepton events in pp collisions at ($\sqrt{s} = 7,\text{TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	65
415	Charged-particle nuclear modification factors in PbPb and pPb collisions at ($\sqrt{s_{\text{NN}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	64
414	Measurement of the ($\overline{t}t$) 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
413	Differential cross-section of high-mass muon pairs produced by a 194 GeV/c μ beam on a tungsten target. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1985 , 28, 9-14		64
412	Roadmap toward the 10 ps time-of-flight PET challenge. <i>Physics in Medicine and Biology</i> , 2020 , 65, 21RM018	9.8	63
411	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
410	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
409	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
408	The production of J/ψ in 200 GeV/A oxygen-uranium interactions. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1988 , 38, 117-124		60
407	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
406	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
405	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

404	Observation of a new Λ_b baryon. <i>Physical Review Letters</i> , 2012 , 108, 252002	7.4	57
403	Observation of anomalous scaling violation in muon pair production by 194 GeV/c tungsten interactions. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1985 , 28, 15-22		57
402	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
401	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
400	Long-range and short-range dihadron angular correlations in central PbPb collisions at ($\sqrt{s_{NN}} = 2.76$ TeV). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	56
399	J/ψ and ψ' production in p, O and S induced reactions at SPS energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 466, 408-414	4.2	56
398	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
397	Measurement of the pseudorapidity and centrality dependence of the transverse energy density in Pb-Pb collisions at ($\sqrt{s_{NN}}=2.76$ TeV). <i>Physical Review Letters</i> , 2012 , 109, 152303	7.4	55
396	Search for signatures of extra dimensions in the diphoton mass spectrum at the large hadron collider. <i>Physical Review Letters</i> , 2012 , 108, 111801	7.4	53
395	ψ and J/ψ production in p-W, p-U and S-U interactions at 200 GeV/nucleon. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 345, 617-621	4.2	53
394	Search for ($B_s^0 \rightarrow \mu^+ \mu^-$) and $B^0 \rightarrow \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	52
393	Transverse momentum of produced in oxygen-uranium collisions at 200 GeV per nucleon. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 251, 465-471	4.2	52
392	Search for a light pseudoscalar Higgs boson in the dimuon decay channel in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2012 , 109, 121801	7.4	51
391	J/ψ and Drell-Yan production in pp and pd interactions at 450 GeV/c. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 438, 35-40	4.2	51
390	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
389	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
388	J/ψ and muon-pair cross-sections in proton-nucleus and nucleus-nucleus collisions at 200 GeV per nucleon. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 270, 105-110		49
387	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

386	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
385	Measurement of the B_0 production cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011 , 106, 252001	7.4	48
384	Transverse energy distributions in nucleus-nucleus collisions at 200 GeV/nucleon. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 251, 472-476	4.2	47
383	Measurement of the relative prompt production rate of τ and μ in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2251	4.2	46
382	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
381	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
380	Charmonia production in 450 GeV/c proton induced reactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 444, 516-522	4.2	46
379	TOFPET2: a high-performance ASIC for time and amplitude measurements of SiPM signals in time-of-flight applications. <i>Journal of Instrumentation</i> , 2016 , 11, C03042-C03042	1	46
378	Exclusive $\bar{t}t$ production in proton-proton collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	45
377	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
376	Search for exclusive or semi-exclusive $\bar{t}t$ 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
375	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
374	Search for supersymmetry in pp collisions at 7 TeV in events with two photons and missing transverse energy. <i>Physical Review Letters</i> , 2011 , 106, 211802	7.4	45
373	Measurement of the $X(3872)$ production cross section via decays to $J/\psi \eta$ in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	44
372	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
371	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
370	Search for $B(s)0 \rightarrow \mu^+\mu^-$ and $B(0) \rightarrow \mu^+\mu^-$ decays in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011 , 107, 191802	7.4	44
369	Measurement of the ($\bar{t}t$) 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

368	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
367	Search for leptonic decays of W bosons in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	43
366	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
365	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
364	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
363	A new method for depth of interaction determination in PET detectors. <i>Physics in Medicine and Biology</i> , 2016 , 61, 4679-98	3-8	40
362	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
361	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
360	Measurement of the ZZ production cross section and search for anomalous couplings in $2\mu\mu$ final states in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	39
359	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
358	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
357	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
356	Measurement of the $[\text{Formula: see text}]$ cross section in pp collisions at $[\text{Formula: see text}]$ TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , 2016 , 76, 401	4-2	38
355	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $[\text{Formula: see text}] [\text{Formula: see text}]$. <i>European Physical Journal C</i> , 2015 , 75, 288	4-2	37
354	Measurement of the differential cross section and charge asymmetry for inclusive $[\text{Formula: see text}]$ production at $[\text{Formula: see text}]$ TeV. <i>European Physical Journal C</i> , 2016 , 76, 469	4-2	37
353	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
352	Measurement of masses in the $[\text{Formula: see text}]$ system by kinematic endpoints in pp collisions at $[\text{Formula: see text}]$. <i>European Physical Journal C</i> , 2013 , 73, 2494	4-2	37
351	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

350	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
349	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
348	Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. <i>European Physical Journal C</i> , 2018 , 78, 509	4.2	37
347	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
346	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
345	Geant4 applications and developments for medical physics experiments. <i>IEEE Transactions on Nuclear Science</i> , 2004 , 51, 1412-1419	1.7	36
344	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
343	Search for pair-produced vectorlike B quarks in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , 2016 , 93,	4.9	35
342	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
341	Measurement of the ($\overline{\text{t}}\text{t}$) 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
340	Alignment of the CMS silicon tracker during commissioning with cosmic rays. <i>Journal of Instrumentation</i> , 2010 , 5, T03009-T03009	1	35
339	, $\overline{\text{t}}\text{t}$ and muon pair production in p-W and S-U collisions. <i>Nuclear Physics A</i> , 1994 , 566, 77-85	1.3	35
338	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
337	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
336	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
335	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
334	Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. <i>Journal of Instrumentation</i> , 2010 , 5, T03014-T03014	1	34
333	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

332	Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	32
331	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
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317	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
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38	Flexible custom designs for CMS DAQ. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007 , 172, 174-177		1
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36	Design and test methodology for a reconfigurable PEM data acquisition electronics system		1
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