

# Jordan Nash

## List of Publications by Year in descending order

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Version: 2024-02-01

519  
papers

22,281  
citations

13332

70  
h-index

23173

116  
g-index

524  
all docs

524  
docs citations

524  
times ranked

10073  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 $\sqrt{s}$ TeV. European Physical Journal C, 2015, 75, 212.	1.4	541
2	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.4	499
3	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	1.6	497
4	Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\text{-}\mathrm{TeV}$ . European Physical Journal C, 2012, 72, 1.	1.4	369
5	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13, \sqrt{s}=8\text{-}\mathrm{TeV}$ . European Physical Journal C, 2019, 79, 421.	1.4	355
6	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	1.4	342
7	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	320
8	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s}=8\text{-}\mathrm{TeV}$ . European Physical Journal C, 2015, 75, 235.	1.4	320
9	A measurement of the inclusive $b\bar{t}s$ branching ratio. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 429, 169-187.	1.5	259
10	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at $\sqrt{s}=8\text{-}\mathrm{TeV}$ . European Physical Journal C, 2014, 74, 3036.	1.4	241
11	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s}=0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.	1.6	230
12	Suppression of non-prompt $J/\psi$ , prompt $J/\psi$ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\text{-}\mathrm{TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	200
13	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	1.4	198
14	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s}=8, \sqrt{s}=13\text{-}\mathrm{TeV}$ . European Physical Journal C, 2015, 75, 542.	1.4	191
15	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\text{-}\mathrm{TeV}$ . European Physical Journal C, 2012, 72, 1.	1.4	181
16	Search for heavy neutrinos and $W$ bosons with right-handed couplings in proton-proton collisions at $\sqrt{s}=8, \sqrt{s}=13\text{-}\mathrm{TeV}$ . European Physical Journal C, 2014, 74, 3149.	1.4	179
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#	ARTICLE	IF	CITATIONS
19	Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. Journal of High Energy Physics, 2014, 2014, 1.	1.6	169
20	Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	168
21	Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the CMS experiment. Journal of High Energy Physics, 2011, 2011, 1.	1.6	158
22	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s} = 0.9, 2.76, \text{ and } 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	154
23	A precise measurement of $\tilde{\chi}^0_1 \tilde{\chi}^0_2$ hadrons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 313, 535-548.	1.5	149
24	Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\tilde{L} \pm T$ and b-quark multiplicity in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2013, 73, 2568.	1.4	147
25	Measurements of Z-boson resonance parameters in $e^+e^-$ annihilation. Physical Review Letters, 1989, 63, 2173-2176.	2.9	146
26	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	139
27	Prompt and non-prompt $J/\psi$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	135
28	Initial measurements of Z-boson resonance parameters in $e^+e^-$ annihilation. Physical Review Letters, 1989, 63, 724-727.	2.9	131
29	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	129
30	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	125
31	Evidence for the 125 GeV Higgs boson decaying to a pair of $\tilde{\chi}_1^0$ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	123
32	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 8, \text{ and } 7$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	1.4	123
33	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	122
34	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	1.4	120
35	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	118
36	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	117

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37	Multihadronic events at $\sqrt{s} = 29$ GeV and predictions of QCD models from $\sqrt{s} = 29$ GeV to $\sqrt{s} = 93$ GeV. <i>Physical Review D</i> , 1988, 37, 1-27.	1.6	114
38	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.	1.6	106
39	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	103
40	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.	1.6	101
41	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.	1.6	100
42	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	99
43	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.	1.6	97
44	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.	1.6	95
45	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.	1.6	92
46	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 147.	1.4	88
47	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.	1.6	86
48	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	85
49	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.	1.6	85
50	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.	1.6	85
51	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2014, 74, 2847.	1.4	85
52	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020, 15, P10017-P10017.	0.5	84
53	Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	83
54	Measurement of the differential cross section and charge asymmetry for inclusive $p \rightarrow p + X$ production at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 469.	1.4	83

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55	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s} = 5.02$ TeV collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	1.4	83
56	Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	1.4	82
57	$J/\psi$ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	81
58	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	81
59	Search for a non-minimal Higgs boson produced in the reaction $\hat{\sigma}^+$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 313, 312-325.	1.5	78
60	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.	1.4	78
61	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	77
62	An upper limit for the $\tilde{L}$ , neutrino mass from $\tilde{L}, \hat{\sigma}^+ \rightarrow \tilde{L}, \hat{\sigma}^+ \rightarrow \tilde{L}$ , decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 349, 585-596.	1.5	75
63	Study of exclusive two-photon production of $W+W\tilde{a}^+$ in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	1.6	75
64	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1.	1.4	75
65	Measurement of the $W^+W^-$ cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	1.4	74
66	Searches for the standard Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 246, 306-314.	1.5	73
67	Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \tilde{L} \hat{\sigma}^+$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
68	Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251.	1.4	73
69	Measurement of the polarization of $\tilde{L}$ , leptons produced in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 265, 430-444.	1.5	72
70	Measurement of the charged particle multiplicity distribution in hadronic Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 273, 181-192.	1.5	72
71	Improved measurements of electroweak parameters from Z decays into fermion pairs. Zeitschrift für Physik C-Particles and Fields, 1992, 53, 1-20.	1.5	70
72	Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	70

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73	Searches for physics beyond the standard model with the $M_{\mathbb{T}}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 3.	1.4	70
74	Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})$ production cross section in the dilepton channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	69
75	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	69
76	The Mark II detector for the SLC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 281, 55-80.	0.7	68
77	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	68
78	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	1.4	68
79	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	68
80	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.	1.4	68
81	Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.	1.4	68
82	Measurements of $ V_{cb} $ , form factors and branching fractions in the decays and. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 395, 373-387.	1.5	66
83	COMET Phase-I technical design report. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	66
84	Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	65
85	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 3129.	1.4	65
86	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2283.	1.4	64
87	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439.	1.4	64
88	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	63
89	Measurement of the $W+W\bar{\nu}$ cross section in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous $WW\bar{\nu}$ and WWZ couplings. European Physical Journal C, 2013, 73, 1.	1.4	62
90	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 13.	1.4	62

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91	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	62
92	Measurement of the strong coupling constant using $\tilde{\chi}_c$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 307, 209-220.	1.5	61
93	Measurement of the branching ratio and an upper limit on $\alpha_s$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 343, 444-452.	1.5	61
94	Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	61
95	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. European Physical Journal C, 2013, 73, 1.	1.4	60
96	Determination of $\alpha_s$ from a differential-jet-multiplicity distribution in $e^+e^-$ collisions at $\sqrt{s} = 29$ and 91 GeV. Physical Review Letters, 1990, 64, 987-990.	2.9	59
97	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	59
98	Properties of hadronic Z decays and test of QCD generators. Zeitschrift für Physik C-Particles and Fields, 1992, 55, 209-234.	1.5	58
99	Search for supersymmetric particles in $e^+e^-$ collisions at centre-of-mass energies of 130 and 136 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 373, 246-260.	1.5	58
100	Search for anomalous $\tilde{t}$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58
101	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58
102	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	1.6	58
103	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2015, 75, 237.	1.4	58
104	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $pp$ collisions at 8 TeV. European Physical Journal C, 2018, 78, 701.	1.4	58
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109	Charged particle transverse momentum spectra in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	56
110	Exclusive $\hat{t}\hat{t}^* + \hat{t}^* + \hat{t}$ production in proton-proton collisions at $\sqrt{s} = \{7\}$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	56
111	Event activity dependence of $\Upsilon$ (nS) production in $\sqrt{s_{NN}} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	56
112	Measurement of $\hat{t}$ s from scaling violations in fragmentation functions in $e^+e^-$ annihilation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 487-499.	1.5	55
113	Measurement of masses in the $\overline{\text{t}}\text{t}$ system by kinematic endpoints in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2494.	1.4	55
114	Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	55
115	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451.	1.4	55
116	Measurement of $\hat{t}$ s in hadronic Z decays using all-orders resummed predictions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 284, 163-176.	1.5	54
117	Search for the standard model Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 313, 299-311.	1.5	54
118	A study of $\text{AuAu}$ decays involving $\eta$ and $\omega$ mesons. Zeitschrift für Physik C-Particles and Fields, 1997, 74, 263-273.	1.5	54
119	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288.	1.4	54
120	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. Journal of High Energy Physics, 2017, 2017, 1.	1.6	54
121	Measurement of the $\overline{\text{t}}\text{t}$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	53
122	Measurement of prompt and nonprompt $\text{J}/\psi$ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	1.4	53
123	Measurement of the strong coupling constant $\hat{t}$ s from global event-shape variables of hadronic Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 255, 623-633.	1.5	52
124	Measurement of the $\overline{\text{t}}\text{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	52
125	Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.	1.4	52
126	Measurements of the $\text{pp} \rightarrow \text{Z} \rightarrow 4\ell$ production cross section and the $\text{Z} \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	1.4	52



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127	Search for exclusive or semi-exclusive $\hat{t}\hat{t}^3$ production and observation of exclusive and semi-exclusive $e^+e^-$ production in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	51
128	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	1.6	51
129	First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572.	1.4	50
130	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, \text{and } 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
131	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13, \text{ext } \{Te\} \text{ext } \{V\}$ . European Physical Journal C, 2019, 79, 564.	1.4	50
132	Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	49
133	Search for leptonic decays of $W^{\pm 2}$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	49
134	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	1.4	49
135	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	48
136	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{Te\} \text{ext } \{V\}$ . European Physical Journal C, 2019, 79, 364.	1.4	48
137	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. Journal of High Energy Physics, 2013, 2013, 1.	1.6	47
138	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	1.6	46
139	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	46
140	Search for third-generation scalar leptoquarks decaying to a top quark and a $au$ , lepton at $\sqrt{s}=13, \text{ext } \{Te\} \text{ext } \{V\}$ . European Physical Journal C, 2018, 78, 707.	1.4	46
141	Measurements of charged-particle inclusive distributions in hadronic decays of the Z boson. Physical Review Letters, 1990, 64, 1334-1337.	2.9	45
142	Production of $K^0$ and $\hat{b}$ in hadronic Z decays. Zeitschrift für Physik C-Particles and Fields, 1994, 64, 361-373.	1.5	45
143	Search for heavy bottom-like quarks in $4.9 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	45
144	Measurement of $\hat{t}s$ from the structure of particle clusters produced in hadronic Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 257, 479-491.	1.5	44

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145	Search for microscopic black holes in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	44
146	Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 151.	1.4	44
147	Production and decay of charmed mesons at the Z resonance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 266, 218-230.	1.5	43
148	An investigation of $B_d^0$ and $B_s^0$ oscillation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 322, 441-458.	1.5	43
149	Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2014, 74, 3060.	1.4	43
150	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	43
151	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 325.	1.4	43
152	Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	42
153	Measurement of the $B^0$ and $B^+$ meson lifetimes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 307, 194-208.	1.5	41
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155	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	41
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158	Measurement of the forward-backward asymmetry in $t\bar{t}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 263, 325-336.	1.5	40
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164	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	1.4	40
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166	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.	1.4	40
167	Searches for new quarks and leptons produced in Z-boson decay. Physical Review Letters, 1989, 63, 2447-2451.	2.9	39
168	Search for CP violation in $Z\mu\mu$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 297, 459-468.	1.5	39
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172	Measurement of the $Z\gamma$ b-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
173	Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	1.6	39
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227	Measurement of B <sup>0</sup> -mixing at the Z. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 258, 236-246.	1.5	30
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290	Measurement of the B hadron lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 257, 492-504.	1.5	22
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303	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	1.6	21
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305	A study of production in semileptonic B decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 345, 103-114.	1.5	20
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309	Updated measurement of the $\tau$ , lepton lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 362-372.	1.5	20
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311	Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	20
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313	Measurements of the $\overline{\text{t}}\text{t}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	20
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315	Search for rare decays of $Z$ and Higgs bosons to $J/\psi$ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.	1.4	20
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459	Search for charginos and neutralinos with R-parity violation at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 461-470.	1.5	7
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465	Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	7
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473	Four-jet final state production in e+e <sup>-</sup> collisions at centre-of-mass energies of 130 and 136 GeV. Zeitschrift für Physik C-Particles and Fields, 1996, 71, 179-197.	1.5	6
474	Determination of sin <sup>2</sup> θ <sub>w</sub> eff using jet charge measurements in hadronic Z decays. Zeitschrift für Physik C-Particles and Fields, 1996, 71, 357-378.	1.5	6
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477	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at s = 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	6
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