

Nicolo Cartiglia

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2657386/publications.pdf>

Version: 2024-02-01

527
papers

23,614
citations

7561

77
h-index

17090

122
g-index

544
all docs

544
docs citations

544
times ranked

10740
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties and performance of the prototype instrument for the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 523, 50-95.	0.7	647
2	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 \sqrt{s} TeV. European Physical Journal C, 2015, 75, 212.	1.4	541
3	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.4	499
4	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
5	Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	369
6	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421.	1.4	355
7	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	1.4	342
8	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
9	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 235.	1.4	320
10	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 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	Search for the dark photon in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 746, 178-185.	1.5	217
13	Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	200
14	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
15	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 542.	1.4	191
16	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	181
17	A precision measurement of direct CP violation in the decay of neutral kaons into two pions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 544, 97-112.	1.5	179
18	Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2014, 74, 3149.	1.4	179

#	ARTICLE	IF	CITATIONS
19	The beam and detector for the NA48 neutral kaon CP violation experiment at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 574, 433-471.	0.7	174

20



#	ARTICLE	IF	CITATIONS
37	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.5	119
38	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
39	Design optimization of ultra-fast silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 796, 141-148.	0.7	118
40	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
41	Type inversion in silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 311, 98-104.	0.7	113
42	Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9$, 2.36, and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	106
43	Measurement of the diffractive structure function in deep inelastic scattering at HERA. Zeitschrift für Physik C-Particles and Fields, 1995, 68, 569-584.	1.5	104
44	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	103
45	Precise tests of low energy QCD from K_{e4} decay properties. European Physical Journal C, 2010, 70, 635-657.	1.4	101
46	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	101
47	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	100
48	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	99
49	New high statistics measurement of K_{e4} decay form factors and $\pi\pi$ scattering phase shifts. European Physical Journal C, 2008, 54, 411.	1.4	98
50	Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710.	1.4	98
51	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7$ TeV and comparison with $\sqrt{s} = 0.9$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	97
52	Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	95
53	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8,$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	95
54	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.	1.6	92

#	ARTICLE	IF	CITATIONS
55	Weightfield2: A fast simulator for silicon and diamond solid state detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 796, 149-153.	0.7	91
56	Search for direct CP violating charge asymmetries in $K^{\pm} \rightarrow \pi^{\pm} \ell^{\pm} \ell^{\mp}$ and $K^{\pm} \rightarrow \pi^{\pm} \ell^{\pm} \ell^{\mp} \nu$ decays. European Physical Journal C, 2007, 52, 875-891.	1.4	89
57	Ultra-fast silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 730, 226-231.	0.7	89
58	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 147.	1.4	88
59	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	86
60	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	85
61	Study of double parton scattering using W + 2-jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
62	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
63	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 2847.	1.4	85
64	Ultra-fast silicon detectors (UFSD). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 831, 18-23.	0.7	84
65	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	0.5	84
66	Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	83
67	Measurement of the differential cross section and charge asymmetry for inclusive $p \rightarrow W^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	1.4	83
68	Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV. European Physical Journal C, 2018, 78, 509.	1.4	83
69	Temperature dependence of the radiation induced change of depletion voltage in silicon PIN detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 342, 96-104.	0.7	82
70	Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	1.4	82
71	J/ψ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	81
72	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

#	ARTICLE	IF	CITATIONS
73	Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	81
74	Measurement of elastic γp photoproduction at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 377, 259-272.	1.5	80
75	Measurement of the cross section for the reaction $\hat{p} \hat{p} \rightarrow J/\psi p$ with the ZEUS detector at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 350, 120-134.	1.5	78
76	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	78
77	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
78	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
79	Study of exclusive two-photon production of $W+W\gamma$ 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
80	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
81	Radiation resistant LGAD design. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 919, 16-26.	0.7	75
82	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
83	Measurement of the $X(3872)$ production cross section via decays to $J/\psi \gamma + \gamma \gamma$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
84	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
85	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
86	Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3.	1.4	70
87	Capacitances in silicon microstrip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 342, 90-95.	0.7	69
88	Measurement of the $\overline{t}t$ 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
89	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
90	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

#	ARTICLE	IF	CITATIONS
91	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
92	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
93	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
94	Measurement of the $\overline{t}t$ 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
95	Dijet cross sections in photoproduction at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 348, 665-680.	1.5	66
96	Exclusive $\gamma^* \rightarrow e^+e^-$ production in deep inelastic electron-proton scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 356, 601-616.	1.5	66
97	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
98	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
99	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
100	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
101	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
102	Measurement of the $W+W\gamma$ cross section in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous $WW\gamma^3$ and WWZ couplings. European Physical Journal C, 2013, 73, 1.	1.4	62
103	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
104	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	62
105	Determination of the S-wave $\pi\pi$ scattering lengths from a study of $K^* \rightarrow \pi^0 \pi^0$ decays. European Physical Journal C, 2009, 64, 589-608.	1.4	61
106	Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	61
107	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.	1.5	60
108	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

#	ARTICLE	IF	CITATIONS
109	Tracking in 4 dimensions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 47-51.	0.7	60
110	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	59
111	Search for anomalous t production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58
112	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58
113	Studies of jet mass in dijet and $W/Z + \text{jet}$ events. Journal of High Energy Physics, 2013, 2013, 1.	1.6	58
114	Nuclear effects on the transverse momentum spectra of charged particles in $p\text{Pb}$ collisions at $\sqrt{s_{\text{NN}}} = 5.02\text{ TeV}$. European Physical Journal C, 2015, 75, 237.	1.4	58
115	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

116

#	ARTICLE	IF	CITATIONS
127	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
128	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
129	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
130	Measurement of the $t\bar{t}$ 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
131	Measurement of prompt and nonprompt J/ψ production in pp and pp collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	1.4	53
132	Measurement of the $t\bar{t}$ 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
133	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
134	Measurements of the $pp \rightarrow ZZ$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	1.4	52
135	Search for exclusive or semi-exclusive $\hat{t}\bar{t}$ 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
136	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
137	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
138	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
139	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 564.	1.4	50
140	Precise measurement of the decay $K_L \rightarrow \pi^0 \pi^0$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 536, 229-240.	1.5	49
141	Measurement of the branching ratio of the decay and extraction of the CKM parameter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 602, 41-51.	1.5	49
142	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
143	Search for leptonic decays of W bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	49
144	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

#	ARTICLE	IF	CITATIONS
145	Temperature effects on radiation damage to silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 326, 373-380.	0.7	48
146	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
147	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364.	1.4	48
148	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
149	Observation of the rare decay $K_S^0 \rightarrow \pi^0 e^+ e^-$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 576, 43-54.	1.5	46
150	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
151	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
152	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	46
153	Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707.	1.4	46
154	Search for heavy bottom-like quarks in 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	45
155	Search for microscopic black holes in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	44
156	Search for a light charged Higgs boson decaying to $c \bar{s}$ in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37.	1.6	44
157	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
158	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140.	1.4	44
159	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
160	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	43
161	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
162	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

#	ARTICLE	IF	CITATIONS
163	Evidence for exclusive $\hat{t}\hat{t}^* W + W \hat{a}^-$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	42
164	Temperature dependence of radiation damage and its annealing in silicon detectors. IEEE Transactions on Nuclear Science, 1993, 40, 344-348.	1.2	41
165	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
166	Measurement of the $t \hat{t}^* \gamma$ production cross section in the $e\hat{\nu}_e$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	41
167	Measurement of the $t \hat{t}^* \gamma$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128.	1.4	41
168	Search for same-sign top-quark pair production at $\sqrt{s} = 7$ TeV and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.	1.6	40
169	The 4D pixel challenge. Journal of Instrumentation, 2016, 11, C12016-C12016.	0.5	40
170	Measurement of the $t \hat{t}^* \gamma$ production cross section using events in the $e\hat{\nu}_e$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172.	1.4	40
171	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
172	Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	1.4	40
173	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
174	Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	39
175	Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
176	Measurement of the $Z/\hat{\gamma} \rightarrow b\bar{b}$ cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
177	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
178	Measurement of the ZZ production cross section and search for anomalous couplings in $2\hat{\nu}_e, 2\hat{\nu}_\mu, \hat{\nu}_e\hat{\nu}_\mu$ final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	39
179	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	39
180	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 965.	1.4	39

#	ARTICLE	IF	CITATIONS
199	Measurement of exclusive Υ photoproduction from protons in p -Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 277.	1.4	35
200	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 488.	1.4	35
201	Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	34
202	Search for microscopic black holes in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	34
203	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or 3 b-quark jets in 7 TeV pp collisions using the variable \hat{t} . Journal of High Energy Physics, 2013, 2013, 1.	1.6	34
204	Searches for supersymmetry using the M _{T2} variable in hadronic events produced in pp collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	34
205	Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 379.	1.4	34
206	Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.	1.4	34
207	Measurement of the top quark mass with lepton+jets final states using p -Pb collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 891.	1.4	34
208	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 90.	1.4	34
209	Demonstration of 200-, 100-, and 50- μ m Pitch Resistive AC-Coupled Silicon Detectors (RSD) With 100% Fill-Factor for 4D Particle Tracking. IEEE Electron Device Letters, 2019, 40, 1780-1783.	2.2	34
210	Measurement of Charged and Neutral Current ν -p Deep Inelastic Scattering Cross Sections at High Q ² . Physical Review Letters, 1995, 75, 1006-1011.	2.9	33
211	Measurement of χ production in p -Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2013, 73, 2453-2460.	1.5	33
212	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	33
213	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	33
214	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	1.4	33
215	First FBK production of 50- μ m Pitch Resistive AC-Coupled Silicon Detectors (RSD) With 100% Fill-Factor for 4D Particle Tracking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 360-368.	0.7	33
216	Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 702.	1.4	33

#	ARTICLE	IF	CITATIONS
217	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 13.	1.4	33
218	Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3.	1.4	33
219	Measurement of normalised multi-differential cross sections in pp collisions at $\sqrt{s}=13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	1.4	33
220	Electrostatic simulations for the design of silicon strip detectors and front-end electronics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 310, 189-191.	0.7	32
221	Measurement of $\overline{B}B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	32
222	Search for supersymmetry in pp collisions at $\sqrt{s}=7$ TeV in events with a single lepton, jets, and missing transverse momentum. Journal of High Energy Physics, 2011, 2011, 1.	1.6	32
223	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	1.6	32
224	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2674.	1.4	32
225	Sensors for ultra-fast silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 765, 7-11.	0.7	32
226	Measurements of the Z production cross sections in the $2\ell 2\ell$ channel in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV. European Physical Journal C, 2015, 75, 511.	1.4	32
227	Searches for pair production of third-generation squarks in $\sqrt{s}=13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	1.4	32
228	Properties of HPK UFSD after neutron irradiation up to 6×10^{15} n/cm ² . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 940, 19-29.	0.7	32
229	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	31
230	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	31
231	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 66.	1.4	31
232	Search for top squark pair production in pp collisions at $\sqrt{s}=13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
233	A multi-dimensional search for new heavy resonances decaying to boosted W or Z boson pairs in the dijet final state at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 237.	1.4	31
234	Resistive AC-Coupled Silicon Detectors: Principles of operation and first results from a combined analysis of beam test and laser data. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1003, 165319.	0.7	31

#	ARTICLE	IF	CITATIONS
235	Measurement of Bose-Einstein correlations in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	30
236	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
237	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow q\bar{q}$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
238	Measurement of the W-boson helicity in top-quark decays from $\overline{\text{t}} \rightarrow W^+ b$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	30
239	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	1.6	30
240	Search for massive WH resonances decaying into the $u\bar{b}$ final state at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 237.	1.4	30
241	Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751.	1.4	30
242	Study of the photon remnant in resolved photoproduction at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 354, 163-177.	1.5	29
243	The CMS barrel calorimeter response to particle beams from $\sqrt{s} = 350$ GeV/c. European Physical Journal C, 2009, 60, 359-373.	1.4	29
244	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	1.6	29
245	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2016, 76, 372.	1.4	29
246	A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the α_T variable. European Physical Journal C, 2017, 77, 294.	1.4	29
247	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	29
248	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 280.	1.4	29
249	Double-sided microstrip sensor for the barrel of the SDC silicon tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 342, 16-21.	0.7	28
250	Search for $\overline{\text{t}} \text{t} \text{H}$ production in the $\overline{\text{t}} \text{t} \rightarrow \text{b}\bar{\text{b}}$ decay channel with leptonic $\overline{\text{t}} \text{t}$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
251	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
252	Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	1.6	27

#	ARTICLE	IF	CITATIONS
253	Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	27
254	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 291.	1.4	27
255	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027.	0.5	27
256	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
257	Measurement of $\hat{\mu}_s$ from jet rates in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 363, 201-216.	1.5	26
258	Performance of the ATLAS electromagnetic calorimeter end-cap module 0. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 500, 178-201.	0.7	26
259	Performance of the ATLAS electromagnetic calorimeter barrel module 0. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 500, 202-231.	0.7	26
260	Intercalibration of the barrel electromagnetic calorimeter of the CMS experiment at start-up. Journal of Instrumentation, 2008, 3, P10007-P10007.	0.5	26
261	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	26
262	Search for resonant $\overline{t}t$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
263	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	26
264	Search for the standard model Higgs boson in the $H \rightarrow Z\gamma$, 2γ channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
265	Measurement of the production cross section for pairs of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
266	Search for $W \rightarrow tb$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	26
267	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	26
268	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76$ TeV. European Physical Journal C, 2016, 76, 1.	1.4	26
269	Searches for lepton number violation and resonances in $K \rightarrow \pi \nu \bar{\nu}$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 67-76.	1.5	26
270	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	25

#	ARTICLE	IF	CITATIONS
271	Forward- and backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325.	1.4	25
272	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	25
273	Measurement of the $t\bar{t}$ production cross section in the $t\bar{t}, +\text{jets}$ channel in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	24
274	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. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
275	Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
276	Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
277	Measurements of $p\bar{p} \rightarrow Z\bar{Z}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13, \text{ext } \{TeV\}$. European Physical Journal C, 2021, 81, 200.	1.4	24
278	Measurement of the direct emission and interference terms and search for CP violation in the decay $K \rightarrow \pi^0 \pi^0$. European Physical Journal C, 2010, 68, 75-87.	1.4	23
279	Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s} = 7, \text{ext } \{TeV\}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	23
280	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8, \text{ext } \{TeV\}$ and $\sqrt{s} = 8$ TeV in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973.	1.4	23
281	Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	23
282	Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 467.	1.4	23
283	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
284	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
285	Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 354.	1.4	23
286	Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s}=8, \text{ext } \{TeV\}$ and $\sqrt{s} = 8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746.	1.4	23
287	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s}=13, \text{ext } \{TeV\}$. European Physical Journal C, 2020, 80, 752.	1.4	23
288	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. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23

#	ARTICLE	IF	CITATIONS
289	Measurement of proton induced radiation damage to CMOS transistors and p-i-n diodes. IEEE Transactions on Nuclear Science, 1990, 37, 1238-1241.	1.2	22
290	Tests of the radiation hardness of VLSI integrated circuits and silicon strip detectors for the SSC under neutron, proton, and gamma irradiation. IEEE Transactions on Nuclear Science, 1991, 38, 269-276.	1.2	22
291	Hadronic energy distributions in deep-inelastic electron-proton scattering. Zeitschrift für Physik C-Particles and Fields, 1993, 59, 231-242.	1.5	22
292	Neutral strange particle production in deep inelastic scattering at HERA. Zeitschrift für Physik C-Particles and Fields, 1995, 68, 29-42.	1.5	22
293	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. Journal of High Energy Physics, 2011, 2011, 1.	1.6	22
294	Search for physics beyond the standard model in events with \bar{l} , leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s}=7 \text{ TeV}$. European Physical Journal C, 2013, 73, 2493.	1.4	22
295	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
296	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
297	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying \bar{l} , leptons and two jets in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
298	Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. European Physical Journal C, 2020, 80, 189.	1.4	22
299	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. European Physical Journal C, 2020, 80, 189.	1.4	22
300	Measurement of the branching ratios of the decays $\tau \rightarrow \mu \nu \nu$. Physics Letters, 2020, 80, 189.	1.5	21
301	Developments and first measurements of Ultra-Fast Silicon Detectors produced at FBK. Journal of Instrumentation, 2017, 12, C02077-C02077.	0.5	21
302	LGAD designs for Future Particle Trackers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 979, 164383.	0.7	21
303	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	1.3	21
304	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
305	Development of low-energy X-ray detectors using LGAD sensors. Journal of Synchrotron Radiation, 2019, 26, 1226-1237.	1.0	21
306	Inclusive transverse momentum distributions of charged particles in diffractive and non-diffractive photoproduction at HERA. Zeitschrift für Physik C-Particles and Fields, 1995, 67, 227-237.	1.5	20

#	ARTICLE	IF	CITATIONS
307	Precise measurements of the $K_S^0 \rightarrow \pi^+ \pi^-$ and $K_L^0 \rightarrow \pi^+ \pi^-$ decay rates. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 551, 7-15.	1.5	20
308	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	20
309	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
310	Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. European Physical Journal C, 2013, 73, 2404.	1.4	20
311	Measurements of the $\overline{\text{charge asymmetry}}$ using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	20
312	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. Journal of High Energy Physics, 2015, 2015, 1.	1.6	20
313	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	20
314	Search for $\overline{\text{production}}$ in the all-jet final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	20
315	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	20
316	Search for rare decays of Z and Higgs bosons to $J/\psi + \gamma$ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.	1.4	20
317	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	20
318	Pulse shapes of silicon strip detectors as a diagnostic tool. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 326, 239-242.	0.7	19
319	of the ratio $\langle \text{ratio} \rangle$. <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:tbl_info="http://www.elsevier.com/"/></small>	1.5	19
320	Measurements of charged kaon semileptonic decay branching fractions $K_{S,L}^0 \rightarrow \pi^+ \pi^- \ell^+ \ell^-$ and $K_{S,L}^0 \rightarrow \pi^0 \pi^+ \pi^- \ell^+ \ell^-$ and their ratio. European Physical Journal C, 2007, 50, 329-340.	1.4	19
321	Radiation hardness qualification of PbWO_4 scintillation crystals for the CMS Electromagnetic Calorimeter. Journal of Instrumentation, 2010, 5, P03010-P03010.	0.5	19
322	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. Journal of High Energy Physics, 2016, 2016, 1.	1.6	19
323	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into \tilde{l}, l , leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	19
324	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 723.	1.4	19

#	ARTICLE	IF	CITATIONS
325	A fast shaping amplifier-comparator integrated circuit for silicon strip detectors. IEEE Transactions on Nuclear Science, 1993, 40, 740-743.	1.2	18
326	Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	18
327	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	18
328	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 460.	1.4	18
329	Test of Ultra Fast Silicon Detectors for picosecond time measurements with a new multipurpose read-out board. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 867, 88-92.	0.7	18
330	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 20.	1.4	18
331	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	18
332	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 629.	1.4	18
333	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 970.	1.4	18
334	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290.	1.4	18
335	Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	17
336	Measurement of the Λ_b^0 lifetime in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	17
337	The AFP and CT-PPS projects. International Journal of Modern Physics A, 2014, 29, 1446017.	0.5	17
338	Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	17
339	Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2901.	1.4	17
340	Measurement of the ratio of the production cross sections times branching fractions of B_c and $B_{c\pm}$ and $B_{c\pm}$ and $B_{c\pm}$ in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 2401.	1.6	17
341	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. Journal of High Energy Physics, 2016, 2016, 1.	1.6	17
342	Search for new physics with the M T2 variable in all-jets final states produced in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	17

#	ARTICLE	IF	CITATIONS
343	Search for $Z\hat{1}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
344	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 697.	1.4	17
345	Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1.	1.4	17
346	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	17
347	Analysis and numerical design of Resistive AC-Coupled Silicon Detectors (RSD) for 4D particle tracking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 959, 163479.	0.7	17
348	New measurement of the $K\rightarrow\pi^0\pi^0$ branching ratio. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 715, 105-115.	1.5	16
349	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. Journal of High Energy Physics, 2012, 2012, 1.	1.6	16
350	Measurement of the $\overline{t}t$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	16
351	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	16
352	Measurement of jet multiplicity distributions in $\overline{t}t$ production in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 3014.	1.4	16
353	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $e\mu$ pair in proton-proton collisions at $\sqrt{s}=8-8$ TeV. European Physical Journal C, 2016, 76, 317.	1.4	16
354	Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 536.	1.4	16
355	Search for excited leptons in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	16
356	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. Journal of High Energy Physics, 2016, 2016, 1.	1.6	16
357	Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 92.	1.4	16
358	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2018, 78, 287.	1.4	16
359	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 886.	1.4	16
360	Search for CP violation in $B\rightarrow\pi\pi$. $\text{xmlns:xocs}=\text{"http://www.elsevier.com/xml/xocs/dtd"} \text{ xmlns:xs}=\text{"http://www.w3.org/2001/XMLSchema"} \text{ xmlns:xsi}=\text{"http://www.w3.org/2001/XMLSchema-instance"} \text{ xmlns}=\text{"http://www.elsevier.com/xml/ja/dtd"} \text{ xmlns:ja}=\text{"http://www.elsevier.com/xml/ja/dtd"} \text{ xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ xmlns:tb}=\text{"http://www.elsevier.com/xml/common/table/dtd"} \text{ xmlns:sb}=\text{"http://www.elsevier.com/xml/common/struct-bib/dtd"} \text{ xmlns:ce}=\text{"http://www.elsevier.com/x"}$	1.5	15

#	ARTICLE	IF	CITATIONS
379	Measurement of σ and $\langle m_T \rangle$ in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	0.7	14
380	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV $PbPb$ collisions. European Physical Journal C, 2020, 80, 534.	1.4	14
381	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
382	Novel strategies for fine-segmented Low Gain Avalanche Diodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 987, 164840.	0.7	14
383	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 153.	1.4	14
384	A low power bipolar amplifier integrated circuit for the ZEUS silicon strip system. Nuclear Physics, Section B, Proceedings Supplements, 1993, 32, 513-518.	0.5	13
385	Search for light resonances decaying into pairs of muons as a signal of new physics. Journal of High Energy Physics, 2011, 2011, 1.	1.6	13
386	Measurement of the underlying event activity in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV with the novel jet-area/median approach. Journal of High Energy Physics, 2012, 2012, 1.	1.6	13
387	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. Journal of High Energy Physics, 2013, 2013, 1.	1.6	13
388	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	13
389	Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. Journal of High Energy Physics, 2016, 2016, 1.	1.6	13
390	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
391	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
392	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	13
393	Radiation hardness measurements on components of a full custom bipolar process. Nuclear Physics, Section B, Proceedings Supplements, 1993, 32, 540-545.	0.5	12
394	Measurement of the Dalitz plot slope parameters of the $B \rightarrow K^* \ell^+ \ell^-$ decays. Physics Letters, Section B, Proceedings Supplements, 1993, 32, 540-545.	1.5	12
395	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	12
396	Phenomenological MSSM interpretation of CMS searches in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	12

#	ARTICLE	IF	CITATIONS
397	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
398	Search for dark matter produced in association with a Higgs boson decaying to $\tilde{\chi}^0_1$ or $\tilde{\chi}^\pm_1, \tilde{\chi}^\pm_2$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
399	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	12
400	Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	12
401	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 893.	1.4	12
402	Development and validation of HERWIG7 tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	1.4	12
403	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	12
404	Study of the effects of neutron irradiation on silicon strip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 315, 156-160.	0.7	11
405	Analysis of capacitance measurements on silicon microstrip detectors. IEEE Transactions on Nuclear Science, 1994, 41, 785-790.	1.2	11
406	Design, testing and performance of the frontend electronics for the LPS silicon microstrip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 364, 507-515.	0.7	11
407	Observation of scaling violations in scaled momentum distributions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 428-443.	1.5	11
408	Search for direct CP violation in the decays $B \rightarrow K^* \ell^+ \ell^-$. Journal of High Energy Physics, 2014, 2014, 1.	1.5	11
409	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.5	11
410	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	11
411	Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	11
412	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel in pp collisions at $\sqrt{s}=7, 8$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	11
413	A new measurement of the $B \rightarrow K^* \ell^+ \ell^-$ decay at the NA48/2 experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 141-148.	1.6	11
414	Measurement of the $Z\tilde{\chi}^0_1$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. Journal of High Energy Physics, 2015, 2015, 1.	1.6	11

#	ARTICLE	IF	CITATIONS
415	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $\sqrt{s} = 8$ TeV using $H \rightarrow WW$ decays. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
416	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11
417	Search for supersymmetry in events with a photon, jets, \mathcal{B} -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 444.	1.4	11
418	Study of the underlying event in top quark pair production in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 123.	1.4	11
419	Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 43.	1.4	11
420	Empirical parameterization of the $K_S^0 \rightarrow \pi^+ \pi^-$ decay Dalitz plot. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 686, 101-108.		
421	Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	10
422	Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	10
423	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2018, 78, 242.	1.4	10
424	Measurement of the $Z/\gamma^* \rightarrow \mu^+ \mu^-$ cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of $Z/\gamma^* \rightarrow \mu^+ \mu^-$. European Physical Journal C, 2018, 78, 708.	1.4	10
425	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u} \rightarrow ZV$ final state. Journal of High Energy Physics, 2018, 2018, 1.	1.6	10
426	Evidence for W^+W^- production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	10
427	Effect of deep gain layer and Carbon infusion on LGAD radiation hardness. Journal of Instrumentation, 2020, 15, P10003-P10003.	0.5	10
428	First observation of the $K_S^0 \rightarrow \pi^+ \pi^-$ decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 578, 276-284.	1.5	9
429	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 1.	1.4	9
430	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	9
431	Timing layers, 4- and 5-dimension tracking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 350-354.	0.7	9
432	First observation and study of the $K_S^0 \rightarrow \pi^+ \pi^-$ decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 552-561.	1.5	9

#	ARTICLE	IF	CITATIONS
433	Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 688.	1.4	9
434	Search for the decay $K_S^0 \rightarrow \pi^0 \pi^0$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 556, 105-113.	1.5	8
435	New precise measurements of the π^0 and η decay asymmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 241-248.	1.5	8
436	Test of Ultra Fast Silicon Detectors for the TOTEM upgrade project. Journal of Instrumentation, 2017, 12, P03024-P03024.	0.5	8
437	Measurement of the form factors of charged kaon semileptonic decays. Journal of High Energy Physics, 2018, 2018, 1.	1.6	8
438	Search for a heavy resonance decaying into a Z boson and a Z or W boson in 2π final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	8
439	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 773.	1.4	8
440	Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	8
441	Measurement of the $K_S^0 \rightarrow \pi^0 \pi^0$ decay asymmetry and branching fraction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 584, 251-259.	1.5	7
442	Measurement of the radiative $K_S^0 \rightarrow \pi^0 \pi^0 \gamma$ decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 584, 251-259.	1.5	7
443	Search for the standard model Higgs boson produced 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	7
444	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	7
445	TOFFEE: a full custom amplifier-comparator chip for timing applications with silicon detectors. Journal of Instrumentation, 2017, 12, C03031-C03031.	0.5	7
446	Study of central exclusive "Equation missing" π^0 production in proton-proton collisions at $\sqrt{s} = 5.02$ TeV and 13 TeV. European Physical Journal C, 2020, 80, 718.	1.4	7
447	Combined analysis of HPK 3.1 LGADs using a proton beam, beta source, and probe station towards establishing high volume quality control. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1018, 165828.	0.7	7
448	Experimental Study of Acceptor Removal in UFSD. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 983, 164611.	0.7	7
449	Radiation hardness measurements on bipolar test structures and an amplifier-comparator circuit. , 0, , .		6
450	A new measurement of the branching ratio of $K_S^0 \rightarrow \pi^0 \pi^0$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 493, 29-35.	1.5	6

#	ARTICLE	IF	CITATIONS
451	Measurement of the $Z \rightarrow \mu\mu$ cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.5	6
452	Determination of the relative decay rate. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 653, 145-150.	1.5	6
453	Measurement of the cross section for production of $b\bar{b}$ decaying to muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	6
454	Comparison of the $Z \rightarrow \mu\mu + \text{jets}$ to $\tau\tau + \text{jets}$ cross sections in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	6
455	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 302.	1.4	6
456	Temperature dependence of the response of ultra fast silicon detectors. Journal of Instrumentation, 2016, 11, C12013-C12013.	0.5	6
457	Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	6
458	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2019, 79, 969.	1.4	6
459	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.		6
460	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
461	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
462	The fluorescence detector prototype for the Auger project: mechanical structure, optical system, and filter. IEEE Transactions on Nuclear Science, 2001, 48, 406-410.	1.2	5
463	Measurement of the CP-conserving component of the decay $Z \rightarrow \mu\mu$. Journal of High Energy Physics, 2014, 2014, 1.	1.5	5
464	First observation and branching fraction and decay parameter measurements of the weak radiative decay $Z \rightarrow \mu\mu \gamma$. Journal of High Energy Physics, 2014, 2014, 1.	1.5	5
465	Detailed study of the $K \rightarrow \pi^0 \pi^0 e^+ e^-$ ($K \rightarrow \pi^0 \pi^0 \gamma$) decay properties. Journal of High Energy Physics, 2014, 2014, 1.	1.6	5
466	Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	5
467	Signal formation in irradiated silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 20-23.	0.7	5
468	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. Journal of High Energy Physics, 2018, 2018, 1.	1.6	5

#	ARTICLE	IF	CITATIONS
469	Search for the pair production of light top squarks in the $e^+e^- \rightarrow t\bar{t}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
470	Test of innovative silicon detectors for the monitoring of a therapeutic proton beam. Journal of Physics: Conference Series, 2020, 1662, 012002.	0.3	5
471	Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. , 2011, 2011, 1.		5
472	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$, ext {TeV} ext {V} with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	1.4	5
473	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
474	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .	1.6	5
475	Optimization of the gain layer design of ultra-fast silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, , 166739.	0.7	5
476	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
477	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
478	Testing and installation of ZEUS Leading Proton Spectrometer detector planes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 342, 260-263.	0.7	4
479	Measurement of the branching ratio and form factors for the decay $K_L \rightarrow \pi^0 e^+ e^-$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 75-85.	1.5	4
480	Precision measurement of the ratio $R_{\tau, \mu} = \Gamma(\tau \rightarrow e \nu_e \nu_\tau) / \Gamma(\tau \rightarrow \mu \nu_\mu \nu_\tau)$. <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.c</small>	1.5	4
481	Search for pair production of excited top quarks in the lepton + jets final state. Journal of High Energy Physics, 2014, 2014, 1.	1.6	4
482	Search for dark matter particles in proton-proton collisions at $\sqrt{s} = 8$ TeV using the razor variables. Journal of High Energy Physics, 2016, 2016, 1.	1.6	4
483	Development of Ultra-Fast Silicon Detectors for 4D tracking. Journal of Instrumentation, 2017, 12, C12012-C12012.	0.5	4
484	Search for CP violation in $t\bar{t}$ production and decay in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	4
485	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 305.	1.4	4
486	Design and characterization of the FAST chip: a front-end for 4D tracking systems based on Ultra-Fast Silicon Detectors aiming at 30 ps time resolution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164615.	0.7	4

#	ARTICLE	IF	CITATIONS
487	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	1.6	4
488	Measurement of the proton structure function F_2 at low x and low Q^2 at HERA. Zeitschrift für Physik C-Particles and Fields, 1995, 69, 607-620.	1.5	3
489	A new drift chamber TDC readout for the high intensity program of the NA48 experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 493-494.	0.7	3
490	Study of hadronic event-shape variables in multijet final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	3
491	Search for $W \rightarrow tb$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	3
492	Development of ultra fast silicon detector for 4D tracking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 608-611.	0.7	3
493	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P05002-P05002.	0.5	3
494	Measurement of the (\overline{t}) production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8$ TeV. , 2014, 2014, 1.		3
495	Measurements of the $(p) \rightarrow (Z)$ production cross section and the $(Z) \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $(\sqrt{s} = 13, \text{TeV})$. , 2018, 78, 1.		3
496	Measurement of elastic π^0 photoproduction at HERA. Zeitschrift für Physik C-Particles and Fields, 1995, 69, 39-54.	1.5	2
497	A technique to produce mirrors for the Auger Observatory. IEEE Transactions on Nuclear Science, 2001, 48, 395-399.	1.2	2
498	Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 1.	1.4	2
499	First Production of 50- μm -thick Resistive AC-Coupled Silicon Detectors (RSD) at FBK. , 2019, , .		2
500	A multichannel front-end readout ASIC for picosecond time resolution systems based on thin UFSD. Journal of Instrumentation, 2020, 15, C07012-C07012.	0.5	2
501	Evolution of the design of ultra fast silicon detector to cope with high irradiation fluences and fine segmentation. Journal of Instrumentation, 2020, 15, C04027-C04027.	0.5	2
502	Measurements of angular distance and momentum ratio distributions in three-jet and $\{Z\}$ + two-jet final states in $\{p\}\{p\}$ collisions. European Physical Journal C, 2021, 81, 852.	1.4	2
503	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $(\sqrt{s} = 8)$ TeV. , 2013, 2013, 1.		2
504	Timing Capabilities of Ultra-Fast Silicon Detectors. Acta Physica Polonica B, Proceedings Supplement, 2014, 7, 657.	0.0	2

#	ARTICLE	IF	CITATIONS
505	High-accuracy 4D particle trackers with resistive silicon detectors (AC-LGADs). Journal of Instrumentation, 2022, 17, C03013.	0.5	2
506	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
507	Measurement of the inclusive $\overline{\text{t}}\text{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
508	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	1.6	2
509	Search for CP-violation in $K_S \rightarrow 3\pi^0$ decays with the NA48 detector. European Physical Journal C, 2004, 33, s337-s339.	1.4	1
510	The drift chamber electronics for the NA48 experiment. IEEE Transactions on Nuclear Science, 2004, 51, 1470-1474.	1.2	1
511	Interbunch extinction measurement at the BNL AGS for the KOPIO experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 560, 256-263.	0.7	1
512	Calibration and performance test of the Very-Front-End electronics for the CMS electromagnetic calorimeter. Nuclear Physics, Section B, Proceedings Supplements, 2007, 172, 168-170.	0.5	1
513	Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	1
514	Precision tests of the Standard Model with Kaon decays at CERN. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1671-1677.	0.2	1
515	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	1
516	Observation of $B^0 \rightarrow \psi(2S)K^0_{\text{short}}$ and $B^0_{\text{short}} \rightarrow \psi(2S)K^0_{\text{short}}$ decays. European Physical Journal C, 2022, 82, .	1.4	1
517	TCAD modeling of bulk radiation damage effects in silicon devices with the Perugia radiation damage model. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1040, 167180.	0.7	1
518	The fluorescence detector prototype for the Auger project: optical system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 577-578.	0.7	0
519	The Leading Proton Spectrometer of ZEUS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 572-574.	0.7	0
520	Measurement of the polarization of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" \rangle \text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 132 Td (overfl$	1.5	0
521	Recent results and prospects on kaon physics at CERN. Nuclear Physics, Section B, Proceedings Supplements, 2013, 245, 223-230.	0.5	0
522	Prospects for observation at CERN in NA62. Journal of Physics: Conference Series, 2015, 631, 012041.	0.3	0

#	ARTICLE	IF	CITATIONS
523	Prospects for $K^0 \rightarrow \pi^0 \pi^0$ observation at GERN in NA62. Nuclear and Particle Physics Proceedings, 2016, 270-272, 55-61.	0.2	0
524	Neutral pion form factor measurement by the NA62 experiment. Journal of Physics: Conference Series, 2017, 873, 012016.	0.3	0
525	Recent QCD results from the NA48/2 experiment. Nuclear and Particle Physics Proceedings, 2018, 300-302, 126-130.	0.2	0
526	Development of front-end readout electronics for high time resolution measurements with UFSD. , 2018, , .		0
527	Characterization of a silicon detector and front-end electronics prototype for single ion discrimination in hadrontherapy. , 2018, , .		0