

Nicola Minafra

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9097139/publications.pdf>

Version: 2024-02-01

177
papers

4,306
citations

117625

34
h-index

149698

56
g-index

180
all docs

180
docs citations

180
times ranked

6493
citing authors

#	ARTICLE	IF	CITATIONS
1	AGILE Instrument: Advanced Energetic Ion Electron Telescope. IEEE Transactions on Nuclear Science, 2022, 69, 811-817.	2.0	0
2	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.	4.7	6
3	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.	4.7	5
4	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 153.	3.9	14
5	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.	4.7	1
6	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.	3.9	18
7	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
8	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, .	4.7	5
9	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.	4.7	12
10	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.	4.7	2
11	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.	4.7	6
12	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.	4.7	5
13	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.	4.7	5
14	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.	4.7	2
15	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, .	4.7	2
16	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, .	4.7	4
17	Observation of $B^0 \rightarrow \mu^+ \mu^- \psi(2S) K^0$ and $B^0 \rightarrow \mu^+ \mu^- \psi(2S) K^0$ decays. European Physical Journal C, 2022, 82, .	3.9	1
18	Search for the lepton flavor violating decay $\tilde{\nu}_\tau \rightarrow \tau \nu_\mu$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3

#	ARTICLE	IF	CITATIONS
19	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.	3.9	33
20	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	54
21	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3.	3.9	33
22	Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
23	Measurements of $pp \rightarrow ZZ$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	3.9	24
24	Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	15
25	Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	26
26	Search for new physics in top quark production with additional leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV using effective field theory. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
27	Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
28	Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	28
29	Development and validation of HERWIG tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
30	Angular analysis of the decay $B^+ \rightarrow K^+ (892) \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	9
31	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.	3.9	40
32	Measurement of b jet shapes in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
33	First measurement of large area jet transverse momentum spectra in heavy-ion collisions. Journal of High Energy Physics, 2021, 2021, 1.	4.7	11
34	Study of Drell-Yan dimuon production in proton-lead collisions at $\sqrt{s_{NN}} = 8.16$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
35	Measurements of the differential cross sections of the production of Z + jets and τ^3 + jets and of Z boson emission collinear with a jet in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
36	Performance of a low gain avalanche detector in a medical linac and characterisation of the beam profile. Physics in Medicine and Biology, 2021, 66, 135002.	3.0	6

#	ARTICLE	IF	CITATIONS
37	Measurement of the Z boson differential production cross section using its invisible decay mode ($Z \rightarrow \nu\bar{\nu}$) Tj ETQq1 1 0.784314 rgBT /Otel Physics, 2021, 2021, 1.	4.7	2
38	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ \mathbb{S} . European Physical Journal C, 2021, 81, 488.	3.9	35
39	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{\text{mathrm}\{s\}} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
40	Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	62
41	Test beam characterization of sensor prototypes for the CMS Barrel MIP Timing Detector. Journal of Instrumentation, 2021, 16, P07023.	1.2	2
42	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ \mathbb{S} . European Physical Journal C, 2021, 81, 629.	3.9	18
43	Search for a heavy vector resonance decaying to a $\{\text{mathrm}\{Z\}\}_{\text{mathrm}\{\}}^{\text{mathrm}\{\}} \mathbb{A}$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ \mathbb{S} . European Physical Journal C, 2021, 81, 688.	3.9	9
44	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13, \{\text{TeV}\}$ \mathbb{S} . European Physical Journal C, 2021, 81, 723.	3.9	19
45	Measurements of angular distance and momentum ratio distributions in three-jet and $\{\text{ext } \{Z\}\}$ + two-jet final states in $\{\text{ext } \{p\}\}\{\text{ext } \{p\}\}$ collisions. European Physical Journal C, 2021, 81, 852.	3.9	2
46	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, \text{hbox } \{\text{TeV}\}$ \mathbb{S} in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
47	A novel technique for real-time ion identification and energy measurement for in situ space instrumentation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1012, 165599.	1.6	5
48	Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb^{-1} of proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
49	Measurements of the $pp \rightarrow W \pm Z \nu$ and $pp \rightarrow Z \nu \nu$ cross sections at $\sqrt{\text{mathrm}\{s\}} = 13$ TeV and limits on anomalous quartic gauge couplings. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
50	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ \mathbb{S} . European Physical Journal C, 2021, 81, 970.	3.9	18
51	Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $\tau, \tau, b\bar{b}$ final state at 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	11
52	Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	36
53	Observation of tW production in the single-lepton channel in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
54	Measurement of prompt open-charm production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2

#	ARTICLE	IF	CITATIONS
55	Measurement of the inclusive and differential $\overline{t}t$ cross sections in the single-lepton channel and EFT interpretation at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
56	Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
57	Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
58	Search for a heavy resonance decaying to a top quark and a W boson at $\sqrt{s} = 13$ TeV in the fully hadronic final state. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1
59	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 151802.	7.8	20
60	The production of isolated photons in PbPb and pp collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
61	Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135609.	4.1	8
62	Investigation into the event-activity dependence of $\overline{t}t$ relative production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
63	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	2.9	21
64	Search for electroweak production of a vector-like T quark using fully hadronic final states. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
65	Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
66	Measurement of properties of $B_s^0 \rightarrow \tau^+ \tau^-$ decays and search for $B \rightarrow \tau^+ \tau^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
67	Search for a light pseudoscalar Higgs boson in the boosted $\tau^+ \tau^-$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23
68	Measurements of $\overline{t}t$ production and the C and P structure of the Yukawa interaction. Journal of High Energy Physics, 2020, 2020, 1.	7.8	38
69	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.	1.2	27
70	Diamond Detectors for Timing Measurements in High Energy Physics. Frontiers in Physics, 2020, 8, .	2.1	17
71	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	10
72	Measurement of the cross section for $\overline{t}t$ production with additional jets and b jets in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	5

#	ARTICLE	IF	CITATIONS
73	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
74	Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)\gamma$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135578.	4.1	27
75	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	37
76	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P05002-P05002.	1.2	3
77	Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV. Measurement of the jet mass distribution and top quark mass in hadronic decays of boosted top quarks in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, .	4.7	11
78	Measurement of the jet mass distribution and top quark mass in hadronic decays of boosted top quarks in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, .	7.8	13
79	Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, .	4.7	10
80	Study of central exclusive "Equation missing" production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718.	3.9	7
81	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 $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 752.	3.9	23
82	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
83	Pileup mitigation at CMS in 13 TeV data. Journal of Instrumentation, 2020, 15, P09018-P09018.	1.2	47
84	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
85	Fabrication and Characterisation of 3D Diamond Pixel Detectors With Timing Capabilities. Frontiers in Physics, 2020, 8, .	2.1	10
86	Search for decays of the 125 GeV Higgs boson into a Z boson and a ρ or ω meson. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
87	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
88	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	66
89	Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques. Journal of Instrumentation, 2020, 15, P06005-P06005.	1.2	56

#	ARTICLE	IF	CITATIONS
91	Search for supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
92	Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2020, 2020, 1. Search for resonant pair production of Higgs bosons in the $\mu\mu$ channel	4.7	9
93	$\sqrt{s} = 13 \text{ TeV}$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV	4.7	10
94	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. Running of the top quark mass from proton-proton collisions at $\sqrt{s} = 13$ TeV	4.7	20
95	$\sqrt{s} = 13 \text{ TeV}$ Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s} = 13$ TeV	4.1	18
96	$\sqrt{s} = 13 \text{ TeV}$ Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135448. Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s} = 13$ TeV	4.1	6
97	Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV	4.7	2
98	$\sqrt{s} = 13 \text{ TeV}$ Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135502. Search for new neutral Higgs bosons through the $h \rightarrow Z\gamma$ process in pp collisions at $\sqrt{s} = 13$ TeV	4.1	40
99	Search for new neutral Higgs bosons through the $h \rightarrow Z\gamma$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	27
100	Search for direct pair production of supersymmetric partners to the $\tilde{\tau}_1$ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
101	Elastic differential cross-section $\frac{d\sigma}{d\Omega}$ at $\sqrt{s} = 2.76$ TeV and implications on the existence of a colourless C-odd three-gluon compound state. European Physical Journal C, 2020, 80, 1.	3.9	29
102	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV. European Physical Journal C, 2020, 80, 534.	3.9	14
103	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic couplings. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
104	Determination of the strong coupling constant $\hat{\alpha}_S(m_Z)$ from measurements of inclusive W^\pm and Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
105	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	7
106	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV	4.7	1
107	$\sqrt{s} = 13 \text{ TeV}$ Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV	7.8	6
108	Evidence for W production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	10

#	ARTICLE	IF	CITATIONS
109	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.	3.9	78
110	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.	3.9	70
111	Search for W boson production in association with a Higgs boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 131802.	4.7	15
112	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tau\mu$, and $e\tau$, in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
113	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
114	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 131802.	7.8	61
115	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
116	Study of excited B_c states decaying to $B_c^0 \rightarrow \tau^+ \bar{\nu}_\tau$ in proton-proton collisions at $s=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135345.	4.1	24
117	A measurement of the Higgs boson mass in the diphoton decay channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135425.	4.1	63
118	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.	4.7	14
119	A multi-dimensional search for new heavy resonances decaying to boosted W boson pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	3.9	31
120	Production of W boson pairs in association with a Higgs boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.1	28
121	Measurement of the top quark pair production cross section in dilepton final states containing one lepton in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
122	Measurement of the $t\bar{t}$ production cross section in dilepton final states containing one lepton in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.1	16
123	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	26
124	Dependence of inclusive jet production on the anti- k_T distance parameter in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
125	Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	13
126	Observation of the $B_c^0 \rightarrow \tau^+ \bar{\nu}_\tau$ decay in proton-proton collisions at $s=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135203.	4.1	6

#	ARTICLE	IF	CITATIONS
127	Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions. Journal of Instrumentation, 2020, 15, P10002-P10002.	1.2	9
128	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8, \text{ext}\{TeV\}$ with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
129	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. European Physical Journal C, 2020, 80, 370.	3.9	22
130	Search for the production of W^+W^- events at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Physical Review D, 2019, 100, 114011.	4.7	10
131	Measurement of the differential cross section for the production of W^+W^- events at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134876.	4.1	26
132	Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134952.	4.1	17
133	Search for MSSM Higgs bosons decaying to W^+W^- in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134992.	4.1	19
134	Elastic differential cross-section measurement at $\sqrt{s} = 13, \text{ext}\{TeV\}$ by TOTEM. European Physical Journal C, 2019, 79, 1.	3.9	46
135	Search for Higgs boson decaying to W^+W^- in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134811.	7.8	21
136	First determination of the α_s parameter at $\sqrt{s} = 13, \text{ext}\{TeV\}$: probing the existence of a colourless C-odd three-gluon compound state. European Physical Journal C, 2019, 79, 1.	3.9	69
137	Search for Higgs and Z boson decays to J/ψ or Υ pairs in the four-muon final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134811.	4.1	12
138	First measurement of elastic, inelastic and total cross-section at $\sqrt{s} = 13, \text{ext}\{TeV\}$ by TOTEM and overview of cross-section data at LHC energies. European Physical Journal C, 2019, 79, 1.	3.9	70
139	Search for Higgs boson decaying to W^+W^- in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134811.	7.8	62
140	Search for resonances decaying to a pair of Higgs bosons in the $b\bar{b}$ final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
141	Search for pair production of vectorlike quarks in the fully hadronic final state. Physical Review D, 2019, 100, .	4.7	35
142	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Physical Review D, 2019, 100, .	4.7	20
143	Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
144	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. European Physical Journal C, 2019, 79, 893.	3.9	12

#	ARTICLE	IF	CITATIONS
145	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
146	Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets. Physical Review Letters, 2019, 123, 241801.	7.8	1
147	Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, .	4.7	14
148	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
149	Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	4
150	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.	4.7	28
151	Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
152	Study of the $\text{B}^0 \rightarrow \text{J}/\psi \text{K}^0$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
153	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
154	Studies of uniformity of 50 μ m low-gain avalanche detectors at the Fermilab test beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 895, 158-172.	1.6	14
155	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.	1.6	18
156	Beam test results of a 16 ps timing system based on ultra-fast silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 850, 83-88.	1.6	120
157	Development of a timing detector for the TOTEM experiment at the LHC. European Physical Journal Plus, 2017, 132, 1.	2.6	4
158	Diamond detectors for the TOTEM timing upgrade. Journal of Instrumentation, 2017, 12, P03007-P03007.	1.2	20
159	Test of Ultra Fast Silicon Detectors for the TOTEM upgrade project. Journal of Instrumentation, 2017, 12, P03024-P03024.	1.2	8
160	Timing performance of a double layer diamond detector. Journal of Instrumentation, 2017, 12, P03026-P03026.	1.2	5
161	Development of a timing detector for the TOTEM experiment at the LHC. , 2017, , .		1
162	LHC forward physics. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 110201.	3.6	99

#	ARTICLE	IF	CITATIONS
163	Measurements of timing resolution of ultra-fast silicon detectors with the SAMPIC waveform digitizer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 835, 51-60.	1.6	24
164	Measurement of elastic pp scattering at $\sqrt{s} = 8 \text{ TeV}$ in the Coulombâ€nuclear interference region: determination of the $\mathbf{h_0}$ parameter and the total cross-section. European Physical Journal C, 2016, 76, 1.	3.9	88
165	Evidence for non-exponential elastic protonâ€proton differential cross-section at low $ t $ and $\sqrt{s} = 8 \text{ TeV}$ by TOTEM. Nuclear Physics B, 2015, 899, 527-546.	2.0	187
166	Measurement of the forward charged particle pseudorapidity density in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ using a displaced interaction point. European Physical Journal C, 2015, 75, 1.	3.9	13
167	Measurement of pseudorapidity distributions of charged particles in protonâ€proton collisions at $\sqrt{s} = 8 \text{ TeV}$ by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	3.9	49
168	LHC optics measurement with proton tracks detected by the Roman pots of the TOTEM experiment. New Journal of Physics, 2014, 16, 103041.	2.9	13
169	An Interference/Diffraction Experiment for Undergraduates. Springer Proceedings in Physics, 2014, , 505-512.	0.2	0
170	Status of the TOTEM experiment at LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 21-25.	1.6	1
171	Measurement of proton-proton inelastic scattering cross-section at $\sqrt{s} = 7 \text{ TeV}$. Europhysics Letters, 2013, 101, 21003.	2.0	70
172	Luminosity-independent measurements of total, elastic and inelastic cross-sections at $\sqrt{s} = 7 \text{ TeV}$. Europhysics Letters, 2013, 101, 21004.	2.0	176
173	Double Diffractive Cross-Section Measurement in the Forward Region at the LHC. Physical Review Letters, 2013, 111, 262001.	7.8	34
174	Luminosity-Independent Measurement of the Proton-Proton Total Cross Section at $\sqrt{s} = 8 \text{ TeV}$. Physical Review Letters, 2013, 111, 012001.	7.8	187
175	Measurement of proton-proton elastic scattering and total cross-section at $\sqrt{s} = 7 \text{ TeV}$. Europhysics Letters, 2013, 101, 21002.	2.0	197
176	PERFORMANCE OF THE TOTEM DETECTORS AT THE LHC. International Journal of Modern Physics A, 2013, 28, 1330046.	1.5	20
177	Measurement of the forward charged-particle pseudorapidity density in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the TOTEM experiment. Europhysics Letters, 2012, 98, 31002.	2.0	34