

# Gueorgui Antchev

## List of Publications by Year in descending order

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Version: 2024-02-01

244  
papers

7,660  
citations

101384

36  
h-index

66788

78  
g-index

248  
all docs

248  
docs citations

248  
times ranked

7371  
citing authors

#	ARTICLE	IF	CITATIONS
1	The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004.	0.5	2,192
2	First measurement of the total proton-proton cross-section at the LHC energy of $\sqrt{s} = 7, \text{TeV}$ . Europhysics Letters, 2011, 96, 21002.	0.7	236
3	Measurement of proton-proton elastic scattering and total cross-section at $\sqrt{s} = 7, \text{TeV}$ . Europhysics Letters, 2013, 101, 21002.	0.7	197
4	Luminosity-Independent Measurement of the Proton-Proton Total Cross Section at $\sqrt{s} = 7, \text{TeV}$ . Physical Review Letters, 2013, 111, 012001.	2.9	187
5	Luminosity-independent measurements of total, elastic and inelastic cross-sections at $\sqrt{s} = 7, \text{TeV}$ . Europhysics Letters, 2013, 101, 21004.	0.7	176
6	Proton-proton elastic scattering at the LHC energy of $\sqrt{s} = 7, \text{TeV}$ . Europhysics Letters, 2011, 95, 41001.	0.7	150
7	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, \text{TeV}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	1.4	123
8	Evidence for non-exponential elastic proton-proton differential cross-section at low $ t $ and $\sqrt{s} = 8 \text{ TeV}$ by TOTEM. Nuclear Physics B, 2015, 899, 527-546.	2.0	100
9	The TOTEM Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08007-S08007.	0.5	108
10	Measurement of elastic pp scattering at $\sqrt{s} = 8 \text{ TeV}$ in the Coulomb-nuclear interference region: determination of the $\rho$ -parameter and the total cross-section. European Physical Journal C, 2016, 76, 1.	1.4	88
11	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of Instrumentation, 2020, 15, P10017-P10017.	0.5	84
12	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2020, 80, 75.	1.4	78
13	Measurement of proton-proton inelastic scattering cross-section at $\sqrt{s} = 7, \text{TeV}$ . Europhysics Letters, 2013, 101, 21003.	0.7	70
14	First measurement of elastic, inelastic and total cross-section at $\sqrt{s} = 13 \text{ TeV}$ by TOTEM and overview of cross-section data at LHC energies. European Physical Journal C, 2019, 79, 1.	1.4	70
15	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 $\sqrt{s} = 13, \text{TeV}$ . European Physical Journal C, 2020, 80, 3.	1.4	70
16	First determination of the $\rho$ parameter at $\sqrt{s} = 13 \text{ TeV}$ : probing the existence of a colourless C-odd three-gluon compound state. European Physical Journal C, 2019, 79, 1.	1.4	69
17	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2020, 2020, 1.	1.6	66
18	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.	1.5	63

#	ARTICLE	IF	CITATIONS
19	Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC. Journal of Instrumentation, 2021, 16, P05014.	0.5	62
20	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.	1.6	62
21	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.	2.9	61
22	Design, performance, and calibration of CMS forward calorimeter wedges. European Physical Journal C, 2008, 53, 139-166.	1.4	60
23	Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques. Journal of Instrumentation, 2020, 15, P06005-P06005.	0.5	56
24	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.	1.6	54
25	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	1.6	54
26	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
27	Pileup mitigation at CMS in 13 TeV data. Journal of Instrumentation, 2020, 15, P09018-P09018.	0.5	47
28	Elastic differential cross-section measurement at $\sqrt{s} = 13$ TeV by TOTEM. European Physical Journal C, 2019, 79, 1.	1.4	46
29	Measurement of properties of $B_s^0 \rightarrow \mu^+ \mu^-$ decays and search for $B \rightarrow \mu^+ \mu^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	1.6	41
30	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.	1.6	41
31	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Particle Physics, 2020, 832, 135457.	1.5	40
32	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
33	Measurements of production cross sections of $WZ$ and same-sign $WW$ boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Particle Physics, 2020, 832, 135457.	2.9	38
34	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.	1.5	37
35	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.	1.6	37
36	Odderon Exchange from Elastic Scattering Differences between $p p$ and $p \bar{p}$ at 1.96 TeV and from $p p$ Data at 1.96 TeV and from $p \bar{p}$ Data at 1.96 TeV. Physics Letters, Section B: Nuclear, Particle Physics, 2020, 832, 135457.	2.9	37

#	ARTICLE	IF	CITATIONS
37	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.	1.6	36
38	Search for pair production of vectorlike quarks in the fully hadronic final state. Physical Review D, 2019, 100, .	1.6	35
39	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV}. European Physical Journal C, 2021, 81, 488.	1.4	35
40	Measurement of the forward charged-particle pseudorapidity density in $pp$ collisions at $\sqrt{s} = 7$ TeV with the TOTEM experiment. Europhysics Letters, 2012, 98, 31002.	0.7	34
41	Double Diffractive Cross-Section Measurement in the Forward Region at the LHC. Physical Review Letters, 2013, 111, 262001.	2.9	34
42	Search for vectorlike leptons in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, .	1.6	34
43	Search for dark matter produced in association with a leptonically decaying $Z$ boson in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV}. European Physical Journal C, 2021, 81, 13.	1.4	33
44	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s} = 13$ , ext {TeV}. European Physical Journal C, 2021, 81, 3.	1.4	33
45	Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 13.	1.5	33
46	A multi-dimensional search for new heavy resonances decaying to boosted $W$ boson pairs in the dijet final state at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 237.	1.4	31
47	Design, performance, and calibration of CMS hadron-barrel calorimeter wedges. European Physical Journal C, 2008, 55, 159-171.	1.4	30
48	Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	1.6	30
49	The CMS barrel calorimeter response to particle beams from $\sqrt{s} = 27$ to $\sqrt{s} = 350$ GeV/c. European Physical Journal C, 2009, 60, 359-373.	1.4	29
50	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.	1.6	29
51	Elastic differential cross-section $\sigma/dt$ at $\sqrt{s} = 2.76$ TeV and implications on the existence of a colourless C-odd three-gluon compound state. Production of $\chi_{c0}$ baryons in proton-proton and lead-lead collisions at $\sqrt{s} = 2.76$ TeV. Physical Review D, 2018, 98, 014012.	1.4	29
52	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.	1.5	28
53	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.	1.6	28
54	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

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55	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
56	Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)\hat{1}/4+i\hat{1}/4\hat{a}$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135578.	1.5	27
57	Search for new neutral Higgs bosons through the $\mathbb{Z}\mathbb{H}\mathbb{Z}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	27
58	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
59	Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 807, 134876.	1.5	26
60	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.	1.6	26
61	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.	1.6	26
62	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.	1.6	25
63	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.	1.6	25
64	Search for long-lived particles using displaced jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, 074017.	1.6	25
65	Search for long-lived particles using displaced jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, 074017.	1.6	25
66	Study of excited $\mathbb{b}0$ states decaying to $\mathbb{b}0\mathbb{e}^+\mathbb{e}^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135345.	1.5	24
67	Measurements of $\mathbb{p}\mathbb{p} \rightarrow \mathbb{Z}\mathbb{Z}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	1.4	24
68	Highlights from the previous volumes. Europhysics Letters, 2012, 98, 00000.	0.7	23
69	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 123, 231803.	2.9	23
70	Search for a light pseudoscalar Higgs boson in the boosted $\mathbb{t}\mathbb{t}\mathbb{e}^+\mathbb{e}^-$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	23
71	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.	1.4	23
72	Evidence for X(3872) in Pb-Pb Collisions and Studies of its Prompt Production at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2022, 128, 032001.	2.9	23

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73	Search for direct pair production of supersymmetric partners to the $\tau$ lepton in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 189.	1.4	22
74	Observation of a New Excited Beauty Strange Baryon Decaying to $W$ Boson and a $c$ Quark. Physical Review Letters, 2021, 126, 252003.	2.9	22
75	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 370.	1.4	22
76	Elastic Scattering and Total Cross-Section in p+p Reactions. Progress of Theoretical Physics Supplement, 2012, 193, 180-183.	0.2	21
77	Search for a Light Charged Higgs Boson Decaying to $W$ Boson and a $c$ Quark. Physical Review Letters, 2021, 126, 252003.	2.9	21
78	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
79	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
80	Search for bottom-type, vectorlike quark pair production in a fully hadronic final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2020, 102, 054004.	1.6	21
81	Observation of electroweak production of $W^3$ with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135908.	1.5	21
82	PERFORMANCE OF THE TOTEM DETECTORS AT THE LHC. International Journal of Modern Physics A, 2013, 28, 1330046.	0.5	20
83	Diamond detectors for the TOTEM timing upgrade. Journal of Instrumentation, 2017, 12, P03007-P03007.	0.5	20
84	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 100, 054004.	1.6	20
85	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s}=13$ TeV. Physical Review Letters, 2021, 126, 252003.	2.9	20
86	Search for a light charged Higgs boson in the $H \rightarrow \hat{A}^{\pm} c \bar{c}$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2021, 126, 252003.	1.6	20
87	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
88	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.	1.6	20
89	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	1.6	20
90	Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 136018.	1.5	20

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91	Search for top squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Search for MSSM Higgs bosons decaying to $\tau\tau$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134992.	1.6	20
92	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.	1.5	19
93	Running of the top quark mass from proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135263.	1.4	19
94	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 629.	1.5	18
95	Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 135992.	1.4	18
96	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.	1.5	18
97	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
98	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.	1.4	18
99	Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021, 127, 261804.	1.5	17
100	Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state. Physical Review D, 2021, 104, .	1.5	16
101	Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2021, 127, 122001.	1.6	16
102	Measurement of differential Higgs boson production cross sections in the leptonic WW decay mode at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021, 127, 122001.	1.6	16
103	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, 2020, 2020, 1.	1.6	16
104	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tau\tau$ , and $e\tau$ , in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	15
105	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.	1.6	15
106	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.	1.6	15
107	Characteristics of edgeless silicon detectors for the Roman Pots of the TOTEM experiment at the LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 242-245.	0.7	14

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109	Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, .	1.6	14
110	Search for electroweak production of a vector-like T quark using fully hadronic final states. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
111	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.	1.6	14
112	Observation of the $B \rightarrow X \tau \nu$ decay. Physical Review Letters, 2020, 125, 152001.	2.9	14
113	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV collisions. European Physical Journal C, 2020, 80, 534.	1.4	14
114	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
115	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.	1.6	14
116	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
117	Inclusive nonresonant multilepton probes of new phenomena at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	1.6	14
118	LHC optics measurement with proton tracks detected by the Roman pots of the TOTEM experiment. New Journal of Physics, 2014, 16, 103041.	1.2	13
119	Measurement of the forward charged particle pseudorapidity density in pp collisions at $\sqrt{s} = 8$ TeV using a displaced interaction point. European Physical Journal C, 2015, 75, 1.	1.4	13
120	boson pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021, 126, 252002.	1.6	13
121	Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021, 126, 252002.	2.9	13
122	Measurements of the charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136036.	1.6	13
123	Measurements of the charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136036.	1.5	13
124	Measurement of the $W^3$ Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV and Constraints on Effective Field Theory Coefficients. Physical Review Letters, 2021, 126, 252002.	2.9	13
125	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.	1.5	13
126	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.	1.6	13



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127	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.	1.6	13
128	Measurement of the electroweak production of $Z\hat{\nu}\hat{\nu}^*$ and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	13
129	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
130	Design, performance, and calibration of the CMS hadron-outer calorimeter. European Physical Journal C, 2008, 57, 653-663.	1.4	12
131	The TOTEM detector at LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 62-66.	0.7	12
132	Search for Higgs and Z boson decays to $J/\psi$ or $\Upsilon$ pairs in the four-muon final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134811.	1.5	12
133	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
134	Investigation into the event-activity dependence of $\hat{p}_T(nS)$ relative production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	12
135	Measurement of the polarization of prompt $D^0$ mesons versus $\hat{p}_T$ and search for strong electric fields in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2020, 124, 122301.	1.5	12
136	Polarizations in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 122301.	1.5	12
136	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.	1.6	12
137	Development and validation of HERWIG7 tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 317.	1.4	12
138	Measurement of prompt $D^0$ meson azimuthal anisotropy and search for strong electric fields in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2020, 124, 122301.	1.5	12
139	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.	1.5	12
140	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
141	Identification of hadronic tau lepton decays using a deep neural network. Journal of Instrumentation, 2022, 17, P07023.	0.5	12
142	Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	11
143	Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 101, 014011.	1.6	11
144	First measurement of large area jet transverse momentum spectra in heavy-ion collisions. Journal of High Energy Physics, 2021, 2021, 1.	1.6	11



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163	Dependence of inclusive jet production on the anti-kT distance parameter in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	8
164	Search for chargino-neutralino production in events with Higgs and W bosons using $137 \text{ fb}^{-1}$ of proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
165	Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions. Journal of High Energy Physics, 2022, 2022, 1.	1.6	8
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