

Vipin Bhatnagar

List of Publications by Year in descending order

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Version: 2024-02-01

258
papers

11,121
citations

41627

51
h-index

40945

97
g-index

261
all docs

261
docs citations

261
times ranked

8708
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Quality control of mass-produced GEM detectors for the CMS GE1/1 muon upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1034, 166716.	0.7	10
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.	1.6	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, .	1.6	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.	1.6	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.	1.6	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.	1.6	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.	1.6	5
13	Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
14	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
15	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
16	Observation of $B^0 \rightarrow \psi(2S) K^0_{\text{S}} \mu^+ \mu^-$ and $B^0_{\text{S}} \rightarrow \psi(2S) K^0_{\text{S}} \mu^+ \mu^-$ decays. European Physical Journal C, 2022, 82, .	1.4	1
17	Search for the lepton flavor violating decay $\tilde{l}_i \rightarrow \tilde{l}_j \gamma$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
18	Search for dark matter produced in association with a leptonically decaying \mathbb{Z} boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 13.	1.4	33

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19	Ageing Study for Resistive Plate Chambers (RPC) of the CMS Muon Detector for HL-LHC. Springer Proceedings in Physics, 2021, , 703-709.	0.1	0
20	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	1.6	54
21	Search for top squark pair production using dilepton final states in $\sqrt{s}=13$ TeV collision data collected at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3.	1.4	33
22	Study of the normalized transverse momentum distribution of W bosons produced in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	2
23	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
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.	1.6	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.	1.6	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.	1.6	12
27	CMS RPC background ϵ studies and measurements. Journal of Instrumentation, 2021, 16, C04005.	0.5	1
28	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.	1.6	5
29	Towards a two-dimensional readout of the improved CMS Resistive Plate Chamber with a new front-end electronics. Journal of Instrumentation, 2021, 16, C04001.	0.5	1
30	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
31	Development and validation of HERWIG ⁷ tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	1.4	12
32	Research and development of the back-end electronics for the two-dimensional improved resistive plate chambers in CMS upgrade. Radiation Detection Technology and Methods, 2021, 5, 181-191.	0.4	1
33	Angular analysis of the decay $B^+ \rightarrow K^+ (892)^+ \ell^+ \ell^-$ in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	9
34	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
35	CMS phase-II upgrade of the RPC Link System. Journal of Instrumentation, 2021, 16, C05003.	0.5	2
36	Front-end electronics for CMS iRPC detectors. Journal of Instrumentation, 2021, 16, C05002.	0.5	5

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37	Measurement of b jet shapes in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
38	First measurement of large area jet transverse momentum spectra in heavy-ion collisions. Journal of High Energy Physics, 2021, 2021, 1.	1.6	11
39	Study of Drell-Yan dimuon production in proton-lead collisions at $\sqrt{s_{\mathrm{NN}}} = 8.16$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
40	Measurements of the differential cross sections of the production of Z + jets and $\hat{\nu} +$ 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.	1.6	2
41	Measurement of the Z boson differential production cross section using its invisible decay mode ($Z \rightarrow \nu\bar{\nu}$). Journal of High Energy Physics, 2021, 2021, 1.	1.6	2
42	Measurement of the $W\hat{\nu}$ Production Cross Section in Proton-Proton Collisions at $s=13$ TeV and Constraints on Effective Field Theory Coefficients. Physical Review Letters, 2021, 126, 252002.	2.9	13
43	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
44	Observation of a New Excited Beauty Strange Baryon Decaying to $\Lambda_c^+ \bar{c} b$. Physical Review Letters, 2021, 126, 252003.	2.9	22
45	Performance of the CMS muon trigger system in proton-proton collisions at $\sqrt{s} = 13$. Journal of Instrumentation, 2021, 16, P07001.	0.5	6
46	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
47	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
48	Seasonal variation of multiple-muon cosmic ray air showers observed in the NOvA detector on the surface. Physical Review D, 2021, 104, .	1.6	1
49	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV}. European Physical Journal C, 2021, 81, 629.	1.4	18
50	Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z-Boson Yields and Azimuthal Anisotropy at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV. Physical Review Letters, 2021, 127, 102002.	2.9	5
51	Search for a heavy vector resonance decaying to a $Z\gamma$ and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV}. European Physical Journal C, 2021, 81, 688.	2.9	37
52	Search for a heavy vector resonance decaying to a $Z\gamma$ and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV}. European Physical Journal C, 2021, 81, 688.	1.4	9
53	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV}. European Physical Journal C, 2021, 81, 723.	1.4	19
54	Extended search for supernovalike neutrinos in NOvA coincident with LIGO/Virgo detections. Physical Review D, 2021, 104, .	1.6	3

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55	Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions. European Physical Journal C, 2021, 81, 852.	1.4	2
56	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.	2.9	16
57	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	1.4	123
58	Search for slow magnetic monopoles with the NOvA detector on the surface. Physical Review D, 2021, 103, .	1.6	3
59	Q-PET: PET with 3rd Eye Quantum Entanglement Based Positron Emission Tomography. Springer Proceedings in Physics, 2021, , 949-952.	0.1	1
60	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.	1.6	8
61	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
62	Search for Active-Sterile Antineutrino Mixing Using Neutral-Current Interactions with the NOvA Experiment. Physical Review Letters, 2021, 127, 201801.	2.9	10
63	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2020, 125, 151802.	2.9	20
64	The production of isolated photons in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	4
65	Performance of prototype GE1 chambers for the CMS muon spectrometer upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 972, 164104.	0.7	5
66	Measurement of neutrino-induced neutral-current coherent production in the NOvA near detector. Physical Review D, 2020, 102, .	1.6	14
67	Investigation into the event-activity dependence of $\tilde{\tau}$ (nS) relative production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	12
68	Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	11
69	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
70	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
71	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
72	Measurement of properties of $B_{(s)}$ decays and search for $B_0 \rightarrow \tau^+ \tau^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	1.6	41

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73	Search for a light pseudoscalar Higgs boson in the boosted $\hat{t}\hat{t}$, final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	23
74	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
75	Detector Control System for the GE1/1 slice test. Journal of Instrumentation, 2020, 15, P05023-P05023.	0.5	3
76	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.	1.6	10
77	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.	1.6	5
78	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
79	Search for multimessenger signals in NOvA coincident with LIGO/Virgo detections. Physical Review D, 2020, 101, .	1.6	7
80	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
81	Supernova neutrino detection in NOvA. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 014-014.	1.9	9
82	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
83	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. Observation of the $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 752.	2.9	13
84	Study of central exclusive $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 5.02$ TeV and 13 TeV. European Physical Journal C, 2020, 80, 718.	2.9	14
85	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	7
86	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
87	Study of central exclusive $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 5.02$ TeV and 13 TeV. European Physical Journal C, 2020, 80, 718.	2.9	9
88	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
89	Two years ϵ^{TM} test of a temperature sensing system based on fibre Bragg grating technology for the CMS GE1/1 detectors. Journal of Physics: Conference Series, 2020, 1561, 012006.	0.3	1
90	Effects of the electronic threshold on the performance of the RPC system of the CMS experiment. Journal of Instrumentation, 2020, 15, C09025-C09025.	0.5	0

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91	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
92	Search for decays of the 125 GeV Higgs boson into a Z boson and a $\bar{\nu}\nu$ meson. Journal of High Energy Physics, 2020, 2020, 1.	1.6	6
93	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. Physical Review Letters, 2020, 125, 222001.	2.9	7
94	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
95	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.	1.6	66
96	Triple-GEM discharge probability studies at CHARM: simulations and experimental results. Journal of Instrumentation, 2020, 15, P10013-P10013.	0.5	3
97	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.	1.6	4
98	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.	1.6	2
99	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
100	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.	1.6	2
101	Search for new neutral Higgs bosons through the $\text{H} \rightarrow \text{Z} \text{A} \text{B}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	27
102	Search for direct pair production of supersymmetric partners to the τ_1 lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 189.	1.4	22
103	RPC upgrade project for CMS Phase II. Journal of Instrumentation, 2020, 15, C05072-C05072.	0.5	1
104	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
105	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.	1.6	6
106	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.	1.6	7
107	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
108	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.	1.6	1

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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.	1.4	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.	1.4	70
111	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
112	Constraints on the $\kappa_{\tau\tau}$ versus κ_{ZZ} Polarizations in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 131802.	2.9	61
113	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tau\bar{\nu}_\tau$, and $e\bar{\nu}_e$, in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	15
114	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	1.6	20
115	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
116	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
117	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
118	A multi-dimensional search for new heavy resonances decaying to boosted WZ , WZ , or ZZ boson pairs in the dijet final state at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 237.	1.4	31
119	Measurement of the top quark pair production cross section in dilepton final states containing one τ , lepton in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	2
120	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
121	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
122	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
123	Experiences from the RPC data taking during the CMS RUN-2. Journal of Instrumentation, 2020, 15, C10027-C10027.	0.5	3
124	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s}=8$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	1.4	5
125	Adjusting neutrino interaction models and evaluating uncertainties using NOvA near detector data. European Physical Journal C, 2020, 80, 1.	1.4	17
126	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

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127	Measurement of $\sigma_{\text{t}}/\sigma_{\text{t}}^{\text{had}}$ normalised multi-differential cross sections in $\sqrt{s}=13, \text{TeV}$ collisions at $\sqrt{s}=13, \text{TeV}$, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	33
128	Interstrip capacitances of the readout board used in large triple-GEM detectors for the CMS Muon Upgrade. <i>Journal of Instrumentation</i> , 2020, 15, P12019-P12019.	0.5	1
129	RPC system in the CMS Level-1 Muon Trigger. <i>Journal of Instrumentation</i> , 2020, 15, C10007-C10007.	0.5	2
130	A new approach for CMS RPC current monitoring using Machine Learning techniques. <i>Journal of Instrumentation</i> , 2020, 15, C10009-C10009.	0.5	1
131	CMS RPC activities during LHC LS-2. <i>Journal of Instrumentation</i> , 2020, 15, C10025-C10025.	0.5	1
132	Aging study on Resistive Plate Chambers of the CMS Muon Detector for HL-LHC. <i>Journal of Instrumentation</i> , 2020, 15, C11002-C11002.	0.5	1
133	Improved-RPC for the CMS muon system upgrade for the HL-LHC. <i>Journal of Instrumentation</i> , 2020, 15, C11012-C11012.	0.5	5
134	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	17
135	First measurement of neutrino oscillation parameters using neutrinos and antineutrinos by NOvA. <i>Physical Review Letters</i> , 2019, 123, 151803.	2.9	213
136	Search for the pair production of light top squarks in the $e^+e^- \rightarrow t\bar{t}$ final state in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	5
137	Search for supersymmetry in events with a photon, jets, \cancel{E}_T -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. <i>European Physical Journal C</i> , 2019, 79, 444.	1.4	11
138	Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s}=13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	14
139	Measurement of the $\sigma_{\text{t}}/\sigma_{\text{t}}^{\text{had}}$ $t\bar{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. <i>European Physical Journal C</i> , 2019, 79, 368.	1.4	68
140	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. <i>European Physical Journal C</i> , 2019, 79, 280.	1.4	29
141	Measurements of $\sigma_{\text{t}}/\sigma_{\text{t}}^{\text{had}}$ differential cross sections in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ using events containing two leptons. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	28
142	Search for $\sigma_{\text{t}}/\sigma_{\text{t}}^{\text{had}}$ production in the $\text{H} \rightarrow \text{b}\bar{\text{b}}$ decay channel with leptonic $\text{H} \rightarrow \text{t}\bar{\text{t}}$ decays in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	28
143	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. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	12
144	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	18

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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.	1.6	54
146	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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148	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
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227	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
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