

Vipin Bhatnagar

List of Publications by Year in descending order

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Version: 2024-02-01

258
papers

11,121
citations

36303

51
h-index

36028

97
g-index

261
all docs

261
docs citations

261
times ranked

8587
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of the Top Quark. Physical Review Letters, 1995, 74, 2632-2637.	7.8	1,100
2	The upgraded D \tilde{A} detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 565, 463-537.	1.6	549
3	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.	3.9	541
4	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
5	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	3.9	342
6	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.	4.7	320
7	First measurement of neutrino oscillation parameters using neutrinos and antineutrinos by NOvA. Physical Review Letters, 2019, 123, 151803.	7.8	213
8	First Measurement of Electron Neutrino Appearance in NOvA. Physical Review Letters, 2016, 116, 151806.	7.8	210
9	Observation of Single Top-Quark Production. Physical Review Letters, 2009, 103, 092001.	7.8	199
10	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	3.9	198
11	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.	3.9	191

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#	ARTICLE	IF	CITATIONS
19	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	122
20	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	3.9	120
21	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.	4.7	101
22	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.	4.7	97
23	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.	4.7	92
24	Measurement of the Neutrino Mixing Angle θ_{13} in NOvA. Physical Review Letters, 2017, 118, 151802.	7.8	87
25	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.	4.7	86
26	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.	12.6	85
27	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.	4.7	85
28	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
29	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.	4.7	83
30	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	81
31	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
32	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.	4.7	70
33	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
34	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.	4.7	69
35	Measurement of the $\sigma(t\bar{t}\hat{A})$ 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.	3.9	68
36	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

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37	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.	3.9	64
38	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.	4.7	63
39	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.	3.9	62
40	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
41	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
42	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
43	Measurement of the differential cross section for top quark pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.1	59
44	Measurement of the differential cross section for top quark pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	59
45	Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578.	3.9	57
46	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
47	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.	3.9	55
48	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.	4.7	54
49	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
50	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	54
51	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.	3.9	52
52	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	4.7	51
53	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.	3.9	49
54	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.	3.9	44

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55	Search for new physics in e^+e^- data at $\sqrt{s} = 4.7$ GeV using SLEUTH: A quasi-model-independent search strategy for new physics. <i>Physical Review D</i> , 2000, 62, .	4.7	43
56	Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	43
57	Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	43
58	Measurement of the $t\bar{t}$ production cross section in the e^+e^- channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	41
59	Measurement of the $t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 128.	3.9	41
60	Measurement of properties of $B_{(s)}$ decays and search for $B \rightarrow \tau^+ \nu_\tau$ with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	41
61	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. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	41
62	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. <i>European Physical Journal C</i> , 2021, 81, 378.	3.9	40
63	Quasi-Model-Independent Search for New High- p_T Physics at D0. <i>Physical Review Letters</i> , 2001, 86, 3712-3717.	7.8	39
64	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 965.	3.9	39
65	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2017, 77, 845.	3.9	38
66	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2017, 77, 636.	3.9	38
67	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying l , leptons at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	38
68	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2017, 77, 236.	3.9	37
69	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	37
70	Odderon Exchange from Elastic Scattering Differences between p and \bar{p} Data at 1.96 TeV and from p Data at 1.96 TeV and from \bar{p} Data at 1.96 TeV. <i>Physical Review Letters</i> , 2011, 106, 122001.	7.8	37
71	Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	36
72	Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	35

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73	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$. European Physical Journal C, 2021, 81, 488.	3.9	35
74	Quasi-model-independent search for new physics at large transverse momentum. Physical Review D, 2001, 64, .	4.7	34
75	Measurement of $\text{t} \overline{\text{t}}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8, \text{ext } \{ \text{TeV} \}$, $s = 8 \text{ TeV}$. European Physical Journal C, 2016, 76, 379.	3.9	34
76	Limits on anomalous trilinear gauge boson couplings from WW, WZ and W γ production in pp collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$. European Physical Journal C, 2017, 77, 196.	4.1	33
77	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	3.9	33
78	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$. European Physical Journal C, 2021, 81, 13.	3.9	33
79	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$. European Physical Journal C, 2021, 81, 3.	3.9	33
80	Measurement of normalised multi-differential cross sections in pp collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	3.9	33
81	Searches for pair production of third-generation squarks in $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
82	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s} = 7, \text{ext } \{ \text{TeV} \}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	31
83	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8, \text{ext } \{ \text{TeV} \}$, $s = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 66.	3.9	31
84	Search for top squark pair production in pp collisions at $s = 13, \text{ext } \{ \text{TeV} \}$ using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
85	A multi-dimensional search for new heavy resonances decaying to boosted W boson pairs in the dijet final state at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$. European Physical Journal C, 2020, 80, 237.	3.9	31
86	Search for massive WH resonances decaying into the $\text{b} \overline{\text{b}}$ final state at $\sqrt{s} = 8, \text{ext } \{ \text{TeV} \}$ TeV. European Physical Journal C, 2016, 76, 237.	3.9	30
87	Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8, \text{ext } \{ \text{TeV} \}$, $s = 8 \text{ TeV}$. European Physical Journal C, 2017, 77, 751.	3.9	30
88	Measurement of differential $\text{t} \overline{\text{t}}$ production cross sections in pp collisions. Physical Review D, 2014, 90, .	4.7	29
89	A search for new phenomena in pp collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$, $s = 13 \text{ TeV}$ in final states with missing transverse momentum and at least one jet using the α_{T} variable. European Physical Journal C, 2017, 77, 294.	3.9	29
90	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s = 8, \text{ext } \{ \text{TeV} \}$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29

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91	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.	3.9	29
92	Measurements of $\overline{\sigma}(\mathbb{H})$ differential cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV using events containing two leptons. Journal of High Energy Physics, 2019, 1.	4.7	28
93	Search for $\overline{\sigma}(\mathbb{H})$ production in the $\mathbb{H} \rightarrow \overline{\sigma}(\mathbb{H})$ decay channel with leptonic $\overline{\sigma}(\mathbb{H})$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 1.	4.7	28
94	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
95	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
96	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.	3.9	27
97	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
98	Search for new neutral Higgs bosons through the $\mathbb{H} \rightarrow \mathbb{Z} \mathbb{A} \rightarrow \ell\ell^+\ell\ell^-\overline{\sigma}(\mathbb{H})$ process in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	27
99	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.	4.7	27
100	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
101	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
102	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.	4.7	25
103	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.	4.7	25
104	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
105	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
106	Search for a light pseudoscalar Higgs boson in the boosted $\mathbb{H} \rightarrow 4\ell$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23
107	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
108	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $s=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22

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109	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
110	Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
111	Observation of a New Excited Beauty Strange Baryon Decaying to τ lepton and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2021, 126, 252003.	7.8	22
112	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.	3.9	22
113	Search for supersymmetry in events with a τ lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	21
114	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
115	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
116	Hard single diffraction in $p\bar{p}$ collisions at $s=630$ and 1800 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 531, 52-60.	4.1	20
117	Search for $\overline{t}tH$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
118	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.	4.7	20
119	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 125, 151802.	7.8	20
120	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.	4.7	20
121	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
122	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
123	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.	4.7	19
124	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into τ leptons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
125	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.	3.9	19
126	Color coherent radiation in multijet events from collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 419-427.	4.1	18

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127	Measurement of normalized differential $\overline{\sigma}(\mathbf{t})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
128	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.	4.7	18
129	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} TeV. European Physical Journal C, 2021, 81, 629.	3.9	18
130	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} ext {V} TeV. European Physical Journal C, 2021, 81, 970.	3.9	18
131	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} TeV. European Physical Journal C, 2022, 82, 290.	3.9	18
132	Probing color coherence effects in pp collisions at $\sqrt{s}=7$, ext {TeV} s = 7 TeV. European Physical Journal C, 2014, 74, 2901.	3.9	17
133	Search for $Z\tilde{1}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
134	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=13$, ext {TeV} s = 13 TeV. European Physical Journal C, 2018, 78, 697.	3.9	17
135	Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=s = 13$, ext {TeV} TeV. European Physical Journal C, 2018, 78, 1.	3.9	17
136	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.	4.7	17
137	Adjusting neutrino interaction models and evaluating uncertainties using NOvA near detector data. European Physical Journal C, 2020, 80, 1.	3.9	17
138	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.	4.7	16
139	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 $s = 8$ $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
140	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8$ s = 8, ext {TeV} TeV. European Physical Journal C, 2018, 78, 287.	3.9	16
141	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.	7.8	16
142	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
143	Measurement of the $t\bar{t}\tilde{A}^-$ production cross section using events with one lepton and at least one jet in pp collisions at $s = 13$ $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
144	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tilde{1}/4\tilde{1}$, and $e\tilde{1}$, in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	15

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163	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.	4.7	12
164	Investigation into the event-activity dependence of $\tilde{\Gamma}(nS)$ relative production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
165	Polarizations in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
166	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
167	Development and validation of HERWIG $\sqrt{7}$ tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
168	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
169	Measurement of the inclusive production cross section in $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	11
170	Search for electroweak production of charginos in final states with two \tilde{l} , leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
171	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.	4.7	11
172	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
173	Search for supersymmetry in events with a photon, jets, \cancel{b} -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 444.	3.9	11
174	Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
175	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.	3.9	11
176	First measurement of large area jet transverse momentum spectra in heavy-ion collisions. Journal of High Energy Physics, 2021, 2021, 1.	4.7	11
177	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u}q\bar{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
178	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
179	Search for Active-Sterile Antineutrino Mixing Using Neutral-Current Interactions with the NOvA Experiment. Physical Review Letters, 2021, 127, 201801.	7.8	10
180	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.	1.6	10

#	ARTICLE	IF	CITATIONS
199	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
200	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
201	Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $s = 8 \sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
202	Search for the pair production of light top squarks in the $e^{\pm} \mu^{\pm}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
203	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.	1.6	5
204	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
205	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
206	Front-end electronics for CMS iRPC detectors. Journal of Instrumentation, 2021, 16, C05002.	1.2	5
207	Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z-Boson Yields and Azimuthal Anisotropy at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2021, 127, 102002.	7.8	5
208	Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. , 2011, 2011, 1.		5
209	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8, \sqrt{s} = 13$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
210	Improved-RPC for the CMS muon system upgrade for the HL-LHC. Journal of Instrumentation, 2020, 15, C11012-C11012.	1.2	5
211	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
212	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
213	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
214	IMPLICATIONS OF THE UNITARITY TRIANGLE "uc" FOR J, $\hat{\Gamma}$ AND $ V_{CKM} $ ELEMENTS. Modern Physics Letters A, 2000, 15, 2363-2372.	1.2	4
215	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.	4.7	4
216	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

#	ARTICLE	IF	CITATIONS
217	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
218	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
219	Detector Control System for the GE1/1 slice test. Journal of Instrumentation, 2020, 15, P05023-P05023.	1.2	3
220	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
221	Triple-GEM discharge probability studies at CHARM: simulations and experimental results. Journal of Instrumentation, 2020, 15, P10013-P10013.	1.2	3
222	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.	4.7	3
223	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
224	Extended search for supernovalike neutrinos in NOvA coincident with LIGO/Virgo detections. Physical Review D, 2021, 104, .	4.7	3
225	Search for slow magnetic monopoles with the NOvA detector on the surface. Physical Review D, 2021, 103, .	4.7	3
226	Experiences from the RPC data taking during the CMS RUN-2. Journal of Instrumentation, 2020, 15, C10027-C10027.	1.2	3
227	Search for $\tilde{g} \rightarrow X \gamma$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
228	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.	4.7	2
229	Measurement of the top quark pair production cross section in dilepton final states containing one \tilde{l}_i , lepton in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
230	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.	4.7	2
231	CMS phase-II upgrade of the RPC Link System. Journal of Instrumentation, 2021, 16, C05003.	1.2	2
232	Measurements of the differential cross sections of the production of $Z + \text{jets}$ and $\tilde{\chi}^0 + \text{jets}$ 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
233	Measurement of the Z boson differential production cross section using its invisible decay mode ($Z \rightarrow \tilde{\chi}^0 \tilde{\chi}^0$). Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
234	Measurements of angular distance and momentum ratio distributions in three-jet and $Z + \text{two-jet}$ final states in pp collisions. European Physical Journal C, 2021, 81, 852.	3.9	2

#	ARTICLE	IF	CITATIONS
235	RPC system in the CMS Level-1 Muon Trigger. Journal of Instrumentation, 2020, 15, C10007-C10007.	1.2	2
236	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
237	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.	4.7	2
238	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
239	Muon response in ICAL detector at India-based neutrino observatory. Pramana - Journal of Physics, 2016, 86, 465-469.	1.8	1
240	Two yearsâ€™ 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.	0.4	1
241	RPC upgrade project for CMS Phase II. Journal of Instrumentation, 2020, 15, C05072-C05072.	1.2	1
242	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.	4.7	1
243	Fabrication and Characterization of Gaseous Detector for the identification of High Energy Particles.. IOP Conference Series: Materials Science and Engineering, 0, 1033, 012055.	0.6	1
244	CMS RPC background “ studies and measurements. Journal of Instrumentation, 2021, 16, C04005.	1.2	1
245	Towards a two-dimensional readout of the improved CMS Resistive Plate Chamber with a new front-end electronics. Journal of Instrumentation, 2021, 16, C04001.	1.2	1
246	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.	0.8	1
247	Seasonal variation of multiple-muon cosmic ray air showers observed in the NOvA detector on the surface. Physical Review D, 2021, 104, .	4.7	1
248	Q-PET: PET with 3rd Eye Quantum Entanglement Based Positron Emission Tomography. Springer Proceedings in Physics, 2021, , 949-952.	0.2	1
249	Interstrip capacitances of the readout board used in large triple-GEM detectors for the CMS Muon Upgrade. Journal of Instrumentation, 2020, 15, P12019-P12019.	1.2	1
250	A new approach for CMS RPC current monitoring using Machine Learning techniques. Journal of Instrumentation, 2020, 15, C10009-C10009.	1.2	1
251	CMS RPC activities during LHC LS-2. Journal of Instrumentation, 2020, 15, C10025-C10025.	1.2	1
252	Ageing study on Resistive Plate Chambers of the CMS Muon Detector for HL-LHC. Journal of Instrumentation, 2020, 15, C11002-C11002.	1.2	1

#	ARTICLE	IF	CITATIONS
253	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
254	Observation of $B^0 \rightarrow \psi(2S)K^0_{\text{charm}}$ and $B^0_{\text{charm}} \rightarrow \psi(2S)K^0_{\text{charm}}$ decays. European Physical Journal C, 2022, 82, .	3.9	1
255	Rapid communication: K^0_S Production from beryllium target using 120 GeV/c. Pramana - Journal of Physics, 2017, 89, 1.	1.8	0
256	Effects of the electronic threshold on the performance of the RPC system of the CMS experiment. Journal of Instrumentation, 2020, 15, C09025-C09025.	1.2	0
257	Ageing Study for Resistive Plate Chambers (RPC) of the CMS Muon Detector for HL-LHC. Springer Proceedings in Physics, 2021, , 703-709.	0.2	0
258	Straw tube studies and prototype Assembly. , 1900, , .		0