

# Giuliana Galati

## List of Publications by Citations

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299  
papers

3,707  
citations

26  
h-index

41  
g-index

311  
ext. papers

5,364  
ext. citations

4.6  
avg, IF

2.5  
L-index

#	Paper	IF	Citations
299	Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 421	4.2	153
298	Discovery of $\bar{\nu}_\mu$ Neutrino Appearance in the CNGS Neutrino Beam with the OPERA Experiment. <i>Physical Review Letters</i> , <b>2015</b> , 115, 121802	7.4	98
297	Observation of $t\bar{t}$ Production. <i>Physical Review Letters</i> , <b>2018</b> , 120, 231801	7.4	96
296	Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 793, 520-551	4.2	86
295	Observation of Higgs Boson Decay to Bottom Quarks. <i>Physical Review Letters</i> , <b>2018</b> , 121, 121801	7.4	79
294	Search for high-mass resonances in dilepton final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	63
293	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , <b>2020</b> , 80, 4	4.2	61
292	Evidence for $\bar{\nu}_\mu$ Appearance in the CNGS neutrino beam with the OPERA experiment. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	59
291	Readout technologies for directional WIMP Dark Matter detection. <i>Physics Reports</i> , <b>2016</b> , 662, 1-46	27.7	51
290	Search for narrow and broad dijet resonances in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV and constraints on dark matter mediators and other new particles. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	50
289	Final Results of the OPERA Experiment on $\bar{\nu}_\mu$ Appearance in the CNGS Neutrino Beam. <i>Physical Review Letters</i> , <b>2018</b> , 120, 211801	7.4	46
288	Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	42
287	Search for additional neutral MSSM Higgs bosons in the $\tau\tau$ final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	42
286	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> , <b>2018</b> , 2018, 1	5.4	39
285	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	37
284	Evidence for light-by-light scattering and searches for axion-like particles in ultraperipheral PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 797, 134826	4.2	35
283	Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 121803	7.4	35

282	Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p+Pb Collisions at $\sqrt{s_{NN}}=8.16$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 082301	7.4	35
281	Search for an L $\bar{L}$ gauge boson using Z $\rightarrow$ $\mu\mu$ events in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 792, 345-368	4.2	29
280	Performance of reconstruction and identification of $\tau$ leptons decaying to hadrons and $\nu_{\tau}$ in pp collisions at $\sqrt{s}=13$ TeV. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P10005-P10005	1	29
279	Search for vector-like T and B quark pairs in final states with leptons at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	29
278	A new generation scanning system for the high-speed analysis of nuclear emulsions. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P06002-P06002	1	28
277	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two $\tau$ leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 785, 462-488	4.2	28
276	Measurements of properties of the Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 791, 96-129	4.2	27
275	Measurement of the 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> , <b>2019</b> , 79, 368	4.2	27
274	A new fast scanning system for the measurement of large angle tracks in nuclear emulsions. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P11006-P11006	1	26
273	Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	26
272	A measurement of the Higgs boson mass in the diphoton decay channel. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 805, 135425	4.2	25
271	Sensitivity of the SHiP experiment to Heavy Neutral Leptons. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	25
270	Observation of tau neutrino appearance in the CNGS beam with the OPERA experiment. <i>Progress of Theoretical and Experimental Physics</i> , <b>2014</b> , 2014, 101C01-101C01	5.4	25
269	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in collisions at $\sqrt{s}=8$ . <i>European Physical Journal C</i> , <b>2018</b> , 78, 701	4.2	25
268	Search for charged Higgs bosons in the $H \rightarrow \tau\tau$ decay channel in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	24
267	Search for supersymmetric partners of electrons and muons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 790, 140-166	4.2	24
266	Search for long-lived particles decaying into displaced jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	24
265	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 75	4.2	24

264	Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	24
263	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P10017-P10017	1	23
262	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\tau$ leptons at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	23
261	Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 021801	7.4	22
260	Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	22
259	Procedure for short-lived particle detection in the OPERA experiment and its application to charm decays. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	22
258	Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 793, 320-347	4.2	21
257	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	21
256	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	20
255	Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton+jets events from pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	20
254	Search for pair production of second-generation leptoquarks at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	20
253	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 564	4.2	20
252	The Continuous Motion Technique for a New Generation of Scanning Systems. <i>Scientific Reports</i> , <b>2017</b> , 7, 7310	4.9	20
251	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 241802	7.4	20
250	Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	20
249	Measurement of electroweak WZ boson production and search for new physics in WZ + two jets events in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 795, 281-307	4.2	19
248	Study of excited $B_0$ states decaying to $B_0\pi\pi$ in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135345	4.2	19
247	Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 277	4.2	19

246	Measurement of differential cross sections for boson production in association with jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 965	4.2	19
245	Search for new physics in dijet angular distributions using proton-proton collisions at and constraints on dark matter and other models. <i>European Physical Journal C</i> , <b>2018</b> , 78, 789	4.2	19
244	Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 792, 369-396	4.2	18
243	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 364	4.2	18
242	The experimental facility for the Search for Hidden Particles at the CERN SPS. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P03025-P03025	1	18
241	Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P06005-P06005	1	18
240	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	18
239	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> , <b>2020</b> , 2020, 1	5.4	18
238	Search for pair production of vectorlike quarks in the fully hadronic final state. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	18
237	Search for ( $\overline{\text{t}}\text{H}$ ) production in the ( $\text{H}\rightarrow\overline{\text{b}}\text{b}$ ) decay channel with leptonic ( $\overline{\text{t}}$ ) decays in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	17
236	Discovery potential for directional Dark Matter detection with nuclear emulsions. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1	4.2	17
235	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 795, 398-423	4.2	17
234	The active muon shield in the SHiP experiment. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P05011-P05011	1	16
233	A search for pair production of new light bosons decaying into muons in proton-proton collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 796, 131-154	4.2	16
232	Searches for physics beyond the standard model with the variable in hadronic final states with and without disappearing tracks in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 3	4.2	16
231	Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 798, 134985	4.2	16
230	Measurement of the TeV atmospheric muon charge ratio with the complete OPERA data set. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	16
229	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. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	16

228	Intrinsic neutron background of nuclear emulsions for directional Dark Matter searches. <i>Astroparticle Physics</i> , <b>2016</b> , 80, 16-21	2.4	16
227	Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	16
226	Observation of the $\chi_{b1}(3P)$ and $\chi_{b2}(3P)$ and Measurement of their Masses. <i>Physical Review Letters</i> , <b>2018</b> , 121, 092002	7.4	16
225	Search for a $W^\pm$ boson decaying to a $\tau$ lepton and a neutrino in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 792, 107-131	4.2	15
224	Measurements of $(\overline{\text{t}})$ differential cross sections in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV using events containing two leptons. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	15
223	Search for new particles decaying to a jet and an emerging jet. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	15
222	Search for pair production of first-generation scalar leptoquarks at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	15
221	Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 797, 134876	4.2	15
220	Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 800, 135087	4.2	15
219	Measurements of $t\overline{t}$ Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel. <i>Physical Review Letters</i> , <b>2020</b> , 125, 061801	7.4	15
218	Fast simulation of muons produced at the SHiP experiment using Generative Adversarial Networks. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P11028-P11028	1	15
217	Search for high-mass resonances in final states with a lepton and missing transverse momentum at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
216	Observation of prompt $J/\psi$ meson elliptic flow in high-multiplicity pPb collisions at $s_{NN}=8.16$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 791, 172-194	4.2	14
215	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	14
214	Pileup mitigation at CMS in 13 TeV data. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P09018-P09018	1	14
213	Search for disappearing tracks in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 806, 135502	4.2	14
212	Charged-particle angular correlations in XeXe collisions at $s_{NN}=5.44$ TeV. <i>Physical Review C</i> , <b>2019</b> , 100,	2.7	14
211	Search for vectorlike leptons in multilepton final states in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	14



210	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two leptons in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
209	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
208	Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	14
207	Search for supersymmetry in events with a lepton pair and missing transverse momentum in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
206	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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
205	Search for resonant ( $\overline{\text{t}}\text{t}$ ) production in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	13
204	Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	13
203	Measurement of exclusive $\bar{p}$ photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 702	4.2	13
202	Measurement of the top quark mass in the all-jets final state at and combination with the lepton+jets channel. <i>European Physical Journal C</i> , <b>2019</b> , 79, 313	4.2	13
201	Limits on muon-neutrino to tau-neutrino oscillations induced by a sterile neutrino state obtained by OPERA at the CNGS beam. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	13
200	Measurement of ( $\bar{h}h$ ) normalised multi-differential cross sections in ( $pp$ ) collisions at ( $\sqrt{s}=13$ , TeV), and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	13
199	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> , <b>2020</b> , 2020, 1	5.4	13
198	Measurement of the top quark polarization and $t\bar{t}$ spin correlations using dilepton final states in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	13
197	Search for ( $\overline{\text{t}}\text{t}\text{H}$ ) production in the all-jet final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	13
196	Measurement of the top quark mass with lepton+jets final states using collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 891	4.2	13
195	Search for Narrow Resonances in the b-Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 201801	7.4	13
194	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 280	4.2	12
193	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	12

192	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 124, 131802	7.4	12
191	Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	12
190	Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	12
189	Measurement of jet substructure observables in $tt$ events from proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	12
188	Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	12
187	Studies of $\eta$ and mesons including the observation of the decay in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 939	4.2	12
186	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	11
185	Production of $\Xi^+$ baryons in proton-proton and lead-lead collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135328	4.2	11
184	Search for MSSM Higgs bosons decaying to $\tau\tau$ in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 798, 134992	4.2	11
183	Measurements of differential Z boson production cross sections in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	11
182	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P02027-P02027	1	11
181	Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to lepton pairs. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	11
180	Charged-particle nuclear modification factors in XeXe collisions at ( $\sqrt{s_{\mathrm{NN}}}$ ) = 5.44 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
179	Search for the decay of a Higgs boson in the $\tau\tau$ channel in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
178	Search for beyond the standard model Higgs bosons decaying into a ( $\overline{\mathrm{b}}\mathrm{b}$ ) pair in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
177	Measurements of the pp $\rightarrow$ $iWZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	10
176	Search for new neutral Higgs bosons through the ( $\mathrm{H}$ ) to $\mathrm{ZA}$ to $\{\ell\}^+\{\ell\}^-\overline{\mathrm{b}}\mathrm{b}$ process in pp collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	10
175	A multi-dimensional search for new heavy resonances decaying to boosted $\tau\tau$ or boson pairs in the dijet final state at 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 237	4.2	10



174	Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 798, 134952	4.2	10
173	Measurement of properties of $(\mathbf{B})_{\mathbf{s}}^0$ decays and search for $B_0$ with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	10
172	Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)$ in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 808, 135578	4.2	10
171	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ . <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	10
170	Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	10
169	Measurement of associated production of a boson and a charm quark in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 269	4.2	9
168	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	9
167	Running of the top quark mass from proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135263	4.2	9
166	A search for the standard model Higgs boson decaying to charm quarks. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	9
165	Final results of the search for $\mu\mu$ oscillations with the OPERA detector in the CNGS beam. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
164	Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	9
163	Search for anomalous triple gauge couplings in $WW$ and $WZ$ production in lepton + jet events in proton-proton collisions at $(\sqrt{s}) = 13\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	9
162	Observation of nuclear modifications in $W$ boson production in pPb collisions at $\sqrt{s_{NN}}=8.16\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 800, 135048	4.2	9
161	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
160	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 697	4.2	9
159	Search for a singly produced third-generation scalar leptoquark decaying to a lepton and a bottom quark in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
158	Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $(\sqrt{s}) = 13\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
157	Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8

156	Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 152001	7.4	8
155	Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
154	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
153	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at ( $\sqrt{s_{\text{NN}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
152	Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 062002	7.4	8
151	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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
150	Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 800, 135042	4.2	8
149	Search for electroweak production of a vector-like T quark using fully hadronic final states. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
148	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
147	Measuring the Impact of Nuclear Interaction in Particle Therapy and in Radio Protection in Space: the FOOT Experiment. <i>Frontiers in Physics</i> , <b>8</b> ,	3.9	8
146	Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	8
145	Angular analysis of the decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	8
144	Studies of Beauty Suppression via Nonprompt $D^0$ Mesons in Pb-Pb Collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 123, 022001	7.4	7
143	Search for Dark Matter Particles Produced in Association with a Top Quark Pair at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 011803	7.4	7
142	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at ( $\sqrt{s}=13$ ,text {TeV} ). <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	7
141	Search for rare decays of and Higgs bosons to and a photon in proton-proton collisions at = 13. <i>European Physical Journal C</i> , <b>2019</b> , 79, 94	4.2	7
140	Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	7
139	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> , <b>2019</b> , 2019, 1	5.4	7

138	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. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	7
137	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	7
136	Jet properties in PbPb and pp collisions at ( $\sqrt{s_{\text{NN}}}$ )=5.02 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
135	Ion charge separation with new generation of nuclear emulsion films. <i>Open Physics</i> , <b>2019</b> , 17, 233-240	1-3	7
134	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5-4	7
133	Search for long-lived particles using delayed photons in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4-9	7
132	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 123, 231803	7-4	7
131	Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at ( $\sqrt{s}=8$ ) and 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
130	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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
129	Precision measurement of the structure of the CMS inner tracking system using nuclear interactions. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P10034-P10034	1	7
128	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $Z\ell\ell$ final states at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
127	Search for dark matter produced in association with a Higgs boson decaying to $\tau\tau$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
126	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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
125	Search for a Light Charged Higgs Boson Decaying to a W Boson and a CP-Odd Higgs Boson in Final States with $e\tau$ in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 123, 131802	7-4	6
124	Measurement of prompt $(\Upsilon S)$ production cross sections in proton-lead and proton-proton collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 790, 509-532	4-2	6
123	Search for single production of vector-like quarks decaying to a top quark and a boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 90	4-2	6
122	Observation of Single Top Quark Production in Association with a Z Boson in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 132003	7-4	6
121	Search for a light charged Higgs boson in the $H\tau\tau$ channel in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4-9	6

120	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in collisions at and 5.02. <i>European Physical Journal C</i> , <b>2020</b> , 80, 534	4.2	6
119	Measurement of electroweak production of a boson in association with two jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 43	4.2	6
118	Constraints on the $\rho_{c1}$ versus $\rho_{c2}$ Polarizations in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 124, 162002	7.4	6
117	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu$ and $e\mu$ in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	6
116	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at ( $\sqrt{s} = 13, \text{TeV}$ ). <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	6
115	Search for supersymmetry in pp collisions at $s=13$ TeV with 137 fb $^{-1}$ in final states with a single lepton using the sum of masses of large-radius jets. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	6
114	Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	6
113	Measurement of the differential Drell-Yan cross section in proton-proton collisions at ( $\sqrt{\text{mathrm{s}}}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	6
112	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 893	4.2	6
111	Search for new physics in top quark production in dilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 886	4.2	6
110	Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
109	Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 221802	7.4	6
108	Measurement of Bs0 meson production in pp and PbPb collisions at $s_{NN}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 796, 168-190	4.2	5
107	Combinations of single-top-quark production cross-section measurements and $ f_{LVVtb} $ determinations at ( $\sqrt{s}$ ) = 7 and 8 TeV with the ATLAS and CMS experiments. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
106	Study of charged hadron multiplicities in charged-current neutrino $\mu$ ad interactions in the OPERA detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1	4.2	5
105	Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
104	An embedding technique to determine $\mu$ backgrounds in proton-proton collision data. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P06032-P06032	1	5
103	Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the lepton+jets final state in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	5

102	Observation of the $B_0 \rightarrow \mu^+ \mu^-$ decay in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 802, 135203	4.2	5
101	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 $(\sqrt{s}) = 13\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	5
100	Search for resonances decaying to a pair of Higgs bosons in the $b(\overline{\text{charm}})q(\overline{\text{charm}})$ final state in proton-proton collisions at $(\sqrt{s}) = 13\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
99	The CMS RPC detector performance and stability during LHC RUN-2. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C11012-C11012	1	5
98	Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $\sqrt{s_{NN}}=5.44\text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 799, 135049	4.2	5
97	Measurement of the $t\bar{t}b\bar{b}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=13\text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135283	4.2	5
96	Measurement of the groomed jet mass in PbPb and pp collisions at $(\sqrt{s_{\text{NN}}})=5.02\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	5
95	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $(\sqrt{s}=13\text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	5
94	Search for Higgs and Z boson decays to $J/\psi$ or $\Upsilon$ pairs in the four-muon final state in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 797, 134811	4.2	4
93	Search for a low-mass $\chi$ resonance in association with a bottom quark in proton-proton collisions at $(\sqrt{s}) = 13\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
92	Search for the pair production of light top squarks in the $e\bar{e}\chi$ final state in proton-proton collisions at $(\sqrt{s}=13\text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
91	Search for nonresonant Higgs boson pair production in the $(\text{charm}\overline{\text{charm}}\text{charm}\overline{\text{charm}})$ final state at $(\sqrt{s}) = 13\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
90	Study of the underlying event in top quark pair production in collisions at 13. <i>European Physical Journal C</i> , <b>2019</b> , 79, 123	4.2	4
89	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 20	4.2	4
88	Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at $\sqrt{s}=13\text{ TeV}$ . <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	4
87	The magnet of the scattering and neutrino detector for the SHiP experiment at CERN. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P01027-P01027	1	4
86	Evidence for $(\text{W})\text{W}$ production from double-parton interactions in proton-proton collisions at $(\sqrt{s} = 13\text{ TeV})$ . <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	4
85	Search for a $W^*$ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4



84	Measurement of differential cross sections and charge ratios for $\tau$ -channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 370	4.2	4
83	Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P10002-P10002	1	4
82	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	4
81	Sensitivity of the SHiP experiment to light dark matter. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	4
80	Final results on neutrino oscillation parameters from the OPERA experiment in the CNGS beam. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	4
79	Study of Thin Double-Gap RPCs for the CMS Muon System. <i>Journal of the Korean Physical Society</i> , <b>2018</b> , 73, 1080-1087	0.6	4
78	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $(\sqrt{s}) = 13$ TeV via Higgs boson decays to $\tau$ leptons. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	3
77	Search for direct pair production of supersymmetric partners to the lepton in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 189	4.2	3
76	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
75	Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft $\tau$ Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 124, 041803	7.4	3
74	Study of $J/\psi$ meson production inside jets in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 804, 135409	4.2	3
73	Search for the production of $W^+W^-$ events at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	3
72	Measurement of the cosmic ray muon flux seasonal variation with the OPERA detector. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2019</b> , 2019, 003-003	6.4	3
71	Improving the detection efficiency in nuclear emulsion trackers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2015</b> , 776, 45-49	1.2	3
70	Dependence of inclusive jet production on the anti-k <sub>T</sub> distance parameter in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
69	Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 808, 135609	4.2	3
68	Investigation into the event-activity dependence of $\tau$ (NS) relative production in proton-proton collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
67	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. <i>Computing and Software for Big Science</i> , <b>2020</b> , 4, 10	6	3



66	Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 125, 102001	7.4	3
65	Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	3
64	Measurement of differential cross sections for Z boson pair production in association with jets at $s=8$ and 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 789, 19-44	4.2	3
63	Event shape variables measured using multijet final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	3
62	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to e $\bar{\nu}$ final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	3
61	Long-term performance and longevity studies of the CMS Resistive Plate Chambers. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P08024-P08024	1	3
60	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 305	4.2	2
59	. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
58	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at $(\sqrt{s} = 13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
57	Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P06009-P06009	1	2
56	First observation of a tau neutrino charged current interaction with charm production in the OPERA experiment. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	2
55	Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
54	Multiparticle correlation studies in pPb collisions at $s_{NN}=8.16$ TeV. <i>Physical Review C</i> , <b>2020</b> , 101,	2.7	2
53	Determination of the strong coupling constant $\alpha_S(m_Z)$ from measurements of inclusive W $\bar{b}$ and Z boson production cross sections in proton-proton collisions at $(\sqrt{\text{mathrm{s}}}) = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
52	Inclusive search for supersymmetry in pp collisions at $(\sqrt{s}=13)$ TeV using razor variables and boosted object identification in zero and one lepton final states. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
51	Search for excited leptons in $\bar{\nu}$ final states in proton-proton collisions at $(\sqrt{\text{mathrm{s}}}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
50	Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at $s_{NN}=5.02$ TeV. <i>Physical Review C</i> , <b>2019</b> , 100,	2.7	2
49	Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 795, 76-99	4.2	2

48	RPC radiation background simulations for the high luminosity phase in the CMS experiment. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C09045-C09045	1	2
47	Search for supersymmetry using Higgs boson to diphoton decays at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
46	The production of isolated photons in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{NN}}}$ ) = 5.02 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
45	Bose-Einstein correlations of charged hadrons in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
44	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. <i>Physical Review Letters</i> , <b>2020</b> , 124, 202001	7.4	2
43	Study of central exclusive production in proton-proton collisions at and 13TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 718	4.2	2
42	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. <i>European Physical Journal C</i> , <b>2020</b> , 80, 752	4.2	2
41	Charge identification of nuclear fragments with the FOOT Time-Of-Flight system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2021</b> , 1001, 165206	1.2	2
40	Determination of the muon charge sign with the dipolar spectrometers of the OPERA experiment. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P07022-P07022	1	2
39	Search for pair-produced three-jet resonances in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	2
38	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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
37	Measurement of the muon flux from 400 GeV/c protons interacting in a thick molybdenum/tungsten target. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	2
36	Fast timing measurement for CMS RPC Phase-II upgrade. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, C09001-C09001	2	2
35	Search for supersymmetry in events with a photon, jets, $\bar{j}$ -jets, and missing transverse momentum in proton-proton collisions at 13. <i>European Physical Journal C</i> , <b>2019</b> , 79, 444	4.2	1
34	Search for W Boson Decays to Three Charged Pions. <i>Physical Review Letters</i> , <b>2019</b> , 122, 151802	7.4	1
33	Search for Narrow H Resonances in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 081804	7.4	1
32	Search for dijet resonances using events with three jets in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 805, 135448	4.2	1
31	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. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1

30	RPC upgrade project for CMS Phase II. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, C05072-C05072	1	1
29	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
28	High voltage calibration method for the CMS RPC detector. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C09046rC09046		
27	Study of the $(\mathbf{B}^+ \rightarrow \mathbf{J}/\psi \overline{\Lambda} \mathbf{p})$ decay in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
26	Strange hadron production in pp and pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review C</i> , <b>2020</b> , 101,	2.7	1
25	Measurement of the cross section for $(\mathbf{t} \overline{\mathbf{t}})$ production with additional jets and b jets in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
24	Sensitivity of the SHiP experiment to dark photons decaying to a pair of charged particles. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
23	RE3/1 & RE4/1 RPC chambers integration in the inner region of the forward muon spectrometer in the CMS experiment. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C10027-C10027	1	1
22	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 969	4.2	1
21	The Drift Chamber detector of the FOOT experiment: Performance analysis and external calibration. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2021</b> , 986, 164756	1.2	1
20	The major achievements of the OPERA experiment and its legacy. <i>Modern Physics Letters A</i> , <b>2021</b> , 36, 2130004	1.3	1
19	Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 813, 136036	4.2	1
18	Observation of the $Z \rightarrow \mu \mu$ Decay in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 141801	7.4	1
17	Search for Pair-Produced Resonances Each Decaying into at Least Four Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 141802	7.4	1
16	Enhancing the understanding of fragmentation processes in hadrontherapy and radioprotection in space with the FOOT experiment. <i>Physica Scripta</i> , <b>2021</b> , 96, 114013	2.6	1
15	OPERA tau neutrino charged current interactions. <i>Scientific Data</i> , <b>2021</b> , 8, 218	8.2	1
14	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 773	4.2	0
13	Measurement of single-diffractive dijet production in proton-proton collisions at with the CMS and TOTEM experiments. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1164	4.2	0

12	Measurement of the top quark pair production cross section in dilepton final states containing one lepton in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	0
11	Charge identification of fragments with the emulsion spectrometer of the FOOT experiment. <i>Open Physics</i> , <b>2021</b> , 19, 383-394	1.3	0
10	Longevity studies on the CMS-RPC system. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C05012-C05012	1	
9	Final results of the OPERA experiment on $\bar{\nu}_\mu$ appearance and the OPERA Legacy. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1226, 012022	0.3	
8	The OPERA experiment. <i>Nuclear and Particle Physics Proceedings</i> , <b>2015</b> , 267-269, 87-93	0.4	
7	Dataset of tau neutrino interactions recorded by the OPERA experiment. <i>EPJ Web of Conferences</i> , <b>2020</b> , 245, 08013	0.3	
6	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P05002-P05002	1	
5	High Rate RPC detector for LHC. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C10037-C10037	1	
4	CMS RPC efficiency measurement using the tag-and-probe method. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C10020-C10020	1	
3	Search for Heavy Stable Charged Particles in the CMS Experiment using the RPC Phase II upgraded detectors. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, C11011-C11011	1	
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