Jennifer Ngadiuba

List of Publications by Year
in descending order

34	1,761	430874 18	395702 33
papers	citations	h-index	g-index

35	35	35	4863
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
2	Fast inference of deep neural networks in FPGAs for particle physics. Journal of Instrumentation, 2018, 13, P07027-P07027.	1.2	232
3	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
4	Precision luminosity measurement in protonâ€“proton collisions at $$sqrt{s} = 13,hbox {TeV}$$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
5	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
6	Performance of the CMS Level-1 trigger in proton-proton collisions at âˆšs = 13 TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
7	Automatic heterogeneous quantization of deep neural networks for low-latency inference on the edge for particle detectors. Nature Machine Intelligence, 2021, 3, 675-686.	16.0	80
8	Fast convolutional neural networks on FPGAs with hls4ml. Machine Learning: Science and Technology, 2021, 2, 045015.	5.0	47
9	Compressing deep neural networks on FPGAs to binary and ternary precision with <tt>hls4ml</tt>. Machine Learning: Science and Technology, 2021, 2, 015001.	5.0	45
10	The Dark Machines Anomaly Score Challenge: Benchmark Data and Model Independent Event Classification for the Large Hadron Collider. SciPost Physics, 2022, 12, .	4.9	43
11	Fast inference of Boosted Decision Trees in FPGAs for particle physics. Journal of Instrumentation, 2020, 15, P05026-P05026.	1.2	37
12	Measurements of production cross sections of the Higgs boson in the four-lepton final state in protonâ€“proton collisions at $$sqrt{s} = 13,ext {TeV} $$. European Physical Journal C, 2021, 81, 488.	3.9	35
13	Distance-Weighted Graph Neural Networks on FPGAs for Real-Time Particle Reconstruction in High Energy Physics. Frontiers in Big Data, 2020, 3, 598927.	2.9	31
14	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at s = 8 $$ sqrt{s}=8 $$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
15	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $$ sqrt{mathrm{s}} $$ = 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
16	Autoencoders on field-programmable gate arrays for real-time, unsupervised new physics detection at 40 MHz at the Large Hadron Collider. Nature Machine Intelligence, 2022, 4, 154-161.	16.0	21
17	Applications and Techniques for Fast Machine Learning in Science. Frontiers in Big Data, 2022, 5, 787421.	2.9	20
18	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into ï„ leptons in pp collisions at s = 8 $$ sqrt{s}=8 $$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19

#	Article	IF	Citations
19	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in protonâ€“proton collisions at $$sqrt{s}=13,ext {TeV} $$. European Physical Journal C, 2022, 82, 290.	3.9	18
20	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $$ sqrt{s} $$ = 13 TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
21	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
22	LHC physics dataset for unsupervised New Physics detection at 40â€‰MHz. Scientific Data, 2022, 9, 118.	5.3	7
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	Measurement of the inclusive $$ mathrm{t}overline{mathrm{t}} $$ production cross section in proton-proton collisions at $$ sqrt{s} $$ = 5.02 TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
31	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
32	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
33	Observation of B^{0} $$ightarrow $$ $$uppsi $$(2S)K$$^0_mathrm {S}uppi ^+uppi ^-$$ and B$$^0_mathrm {s}$$ $$ightarrow $$ $$uppsi $$(2S)K$$^0_mathrm {S}$$ decays. European Physical Journal C, 2022, 82, .	3.9	1
34	Lightweight Jet Reconstruction and Identiï¬€cation as an Object Detection Task. Machine Learning: Science and Technology, 0, , .	5.0	1