Stefano Carrazza

List of Publications by Year in descending order

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50 papers	7,069 citations	201674 27 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	7415 citing authors

#	Article	IF	Citations
1	Qibo: a framework for quantum simulation with hardware acceleration. Quantum Science and Technology, 2022, 7, 015018.	5.8	47
2	A data-based parametrization of parton distribution functions. European Physical Journal C, 2022, 82, 1.	3.9	2
3	The path to proton structure at 1% accuracy. European Physical Journal C, 2022, 82, .	3.9	138
4	The socio-economic value of scientific publications: The case of Earth Observation satellites. Technological Forecasting and Social Change, 2022, 180, 121730.	11.6	1
5	MadFlow: towards the automation of Monte Carlo simulation on GPU for particle physics processes. EPJ Web of Conferences, 2021, 251, 03022.	0.3	2
6	Determining the proton content with a quantum computer. Physical Review D, 2021, 103, .	4.7	20
7	A patient-specific approach for quantitative and automatic analysis of computed tomography images in lung disease: Application to COVID-19 patients. Physica Medica, 2021, 82, 28-39.	0.7	3
8	Compressing PDF sets using generative adversarial networks. European Physical Journal C, 2021, 81, 1.	3.9	6
9	MCNNTUNES: Tuning Shower Monte Carlo generators with machine learning. Computer Physics Communications, 2021, 263, 107908.	7.5	4
10	MadFlow: automating Monte Carlo simulation on GPU for particle physics processes. European Physical Journal C, 2021, 81, 1.	3.9	4
11	PDFFlow: Parton distribution functions on GPU. Computer Physics Communications, 2021, 264, 107995.	7.5	7
12	An open-source machine learning framework for global analyses of parton distributions. European Physical Journal C, 2021, 81, 1.	3.9	26
13	Sampling the Riemann-Theta Boltzmann machine. Computer Physics Communications, 2020, 256, 107464.	7.5	1
14	VegasFlow: Accelerating Monte Carlo simulation across multiple hardware platforms. Computer Physics Communications, 2020, 254, 107376.	7.5	13
15	Riemann-Theta Boltzmann machine. Neurocomputing, 2020, 388, 334-345.	5.9	4
16	A first determination of parton distributions with theoretical uncertainties. European Physical Journal C, 2019, 79, 1.	3.9	19
17	Towards a new generation of parton densities with deep learning models. European Physical Journal C, 2019, 79, 1.	3.9	20
18	Can New Physics Hide inside the Proton?. Physical Review Letters, 2019, 123, 132001.	7.8	40

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19	Lund jet images from generative and cycle-consistent adversarial networks. European Physical Journal C, 2019, 79, 1.	3.9	36
20	Parton distributions with theory uncertainties: general formalism and first phenomenological studies. European Physical Journal C, 2019, 79, 1.	3.9	51
21	MINLO t-channel single-top plus jet. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
22	Machine learning challenges in theoretical HEP. Journal of Physics: Conference Series, 2018, 1085, 022003.	0.4	4
23	Minimisation strategies for the determination of parton density functions. Journal of Physics: Conference Series, 2018, 1085, 052007.	0.4	2
24	Machine Learning in High Energy Physics Community White Paper. Journal of Physics: Conference Series, 2018, 1085, 022008.	0.4	94
25	Precision determination of the strong coupling constant within a global PDF analysis. European Physical Journal C, 2018, 78, 408.	3.9	39
26	Illuminating the photon content of the proton within a global PDF analysis. SciPost Physics, 2018, 5, .	4.9	125
27	APFELgrid : A high performance tool for parton density determinations. Computer Physics Communications, 2017, 212, 205-209.	7.5	37
28	A determination of the fragmentation functions of pions, kaons, and protons with faithful uncertainties. European Physical Journal C, 2017, 77, 516.	3.9	97
29	Parton distributions from high-precision collider data. European Physical Journal C, 2017, 77, 663.	3.9	897
30	PDF4LHC recommendations for LHC Run II. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 023001.	3.6	875
31	A determination of the charm content of the proton. European Physical Journal C, 2016, 76, 647.	3.9	75
32	Research infrastructures in the LHC era: A scientometric approach. Technological Forecasting and Social Change, 2016, 112, 121-133.	11.6	8
33	QCDLoop: A comprehensive framework for one-loop scalar integrals. Computer Physics Communications, 2016, 209, 134-143.	7.5	42
34	Towards parton distributions with fitted charm. Nuclear and Particle Physics Proceedings, 2016, 270-272, 23-26.	0.5	0
35	Specialized minimal PDFs for optimized LHC calculations. European Physical Journal C, 2016, 76, 205.	3.9	45
36	Combining NNPDF3.0 and NNPDF2.3QED through the APFEL evolution code. , 2016, , .		2

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37	Parton distributions with threshold resummation. Journal of High Energy Physics, 2015, 2015, 1.	4.7	48
38	On the impact of lepton PDFs. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
39	A compression algorithm for the combination of PDF sets. European Physical Journal C, 2015, 75, 474.	3.9	60
40	Parton distributions for the LHC run II. Journal of High Energy Physics, 2015, 2015, 1.	4.7	1,298
41	Reference results for time-like evolution up to O Î± s 3 $$ mathcal{O}left({alpha}_s^3ight) $$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	13
42	APFEL Web: a web-based application for the graphical visualization of parton distribution functions. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 057001.	3.6	61
43	An unbiased Hessian representation for Monte Carlo PDFs. European Physical Journal C, 2015, 75, 369.	3.9	98
44	Perturbative QCD description of jet data from LHC Run-I and Tevatron Run-II. Journal of High Energy Physics, 2014, 2014, 1.	4.7	30
45	APFEL: A PDF evolution library with QED corrections. Computer Physics Communications, 2014, 185, 1647-1668.	7.5	232
46	Tuning PYTHIA 8.1: the Monash 2013 tune. European Physical Journal C, 2014, 74, 1.	3.9	574
47	Parton distribution benchmarking with LHC data. Journal of High Energy Physics, 2013, 2013, 1.	4.7	104
48	Parton distributions with QED corrections. Nuclear Physics B, 2013, 877, 290-320.	2.5	425
49	Parton distributions with LHC data. Nuclear Physics B, 2013, 867, 244-289.	2.5	1,299
50	The Prime state and its quantum relatives. Quantum - the Open Journal for Quantum Science, 0, 4, 371.	0.0	3