

Valerio Bertone

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

6,526
citations

172457

29
h-index

197818

49
g-index

60
all docs

60
docs citations

60
times ranked

7218
citing authors

#	ARTICLE	IF	CITATIONS
1	Parton distributions with LHC data. Nuclear Physics B, 2013, 867, 244-289.	2.5	1,299
2	Parton distributions for the LHC run II. Journal of High Energy Physics, 2015, 2015, 1.	4.7	1,298
3	Parton distributions from high-precision collider data. European Physical Journal C, 2017, 77, 663.	3.9	897
4	Parton distributions with QED corrections. Nuclear Physics B, 2013, 877, 290-320.	2.5	425
5	Impact of heavy quark masses on parton distributions and LHC phenomenology. Nuclear Physics B, 2011, 849, 296-363.	2.5	271
6	APFEL: A PDF evolution library with QED corrections. Computer Physics Communications, 2014, 185, 1647-1668.	7.5	232
7	Electron-ion collider in China. Frontiers of Physics, 2021, 16, 1.	5.0	208
8	Unbiased global determination of parton distributions and their uncertainties at NNLO and at LO. Nuclear Physics B, 2012, 855, 153-221.	2.5	198
9	Illuminating the photon content of the proton within a global PDF analysis. SciPost Physics, 2018, 5, .	4.9	125
10	Reweighting and unweighting of parton distributions and the LHC W lepton asymmetry data. Nuclear Physics B, 2012, 855, 608-638.	2.5	122
11	Parton distributions with small-x resummation: evidence for BFKL dynamics in HERA data. European Physical Journal C, 2018, 78, 321.	3.9	118
12	Reweighting NNPDFs: The W lepton asymmetry. Nuclear Physics B, 2011, 849, 112-143.	2.5	114
13	A determination of the fragmentation functions of pions, kaons, and protons with faithful uncertainties. European Physical Journal C, 2017, 77, 516.	3.9	97
14	Transverse-momentum-dependent parton distributions up to N3LL from Drell-Yan data. Journal of High Energy Physics, 2020, 2020, 1.	4.7	86
15	Extraction of unpolarized quark transverse momentum dependent parton distributions from Drell-Yan/Z-boson production. Journal of High Energy Physics, 2019, 2019, 1.	4.7	78
16	A determination of the charm content of the proton. European Physical Journal C, 2016, 76, 647.	3.9	75
17	Neutrino telescopes as QCD microscopes. Journal of High Energy Physics, 2019, 2019, 1.	4.7	65
18	aMCfast: automation of fast NLO computations for PDF fits. Journal of High Energy Physics, 2014, 2014, 1.	4.7	53

#	ARTICLE	IF	CITATIONS
19	Impact of low-x resummation on QCD analysis of HERA data. European Physical Journal C, 2018, 78, 621.	3.9	53
20	Precision NNLO determination of $\langle \text{mml:math altimg="si1.gif" overflow="scroll"} \rangle$ <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/</small>	4.1	50
21	Parton distributions with threshold resummation. Journal of High Energy Physics, 2015, 2015, 1.	4.7	48
22	Intrinsic charm in a matched general-mass scheme. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 49-58.	4.1	42
23	Charged hadron fragmentation functions from collider data. European Physical Journal C, 2018, 78, 651.	3.9	38
24	APFELgrid : A high performance tool for parton density determinations. Computer Physics Communications, 2017, 212, 205-209.	7.5	37
25	Deconvolution problem of deeply virtual Compton scattering. Physical Review D, 2021, 103, .	4.7	33
26	TMDlib2 and TMDplotter: a platform for 3D hadron structure studies. European Physical Journal C, 2021, 81, 1.	3.9	32
27	Theoretical issues in PDF determination and associated uncertainties. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 330-339.	4.1	31
28	On the impact of lepton PDFs. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
29	Determination of the strong coupling constant $\alpha_s(m_Z)$ in next-to-next-to-leading order QCD using H1 jet cross section measurements. European Physical Journal C, 2017, 77, 791.	3.9	30
30	The photon PDF from high-mass Drell-Yan data at the LHC. European Physical Journal C, 2017, 77, 400.	3.9	23
31	The partonic structure of the electron at the next-to-leading logarithmic accuracy in QED. Journal of High Energy Physics, 2020, 2020, 1	4.7	23
32	Precision determination of $\langle \text{mml:math altimg="si1.gif" overflow="scroll"} \rangle$ <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/</small>	4.1	21
33	Determination of unpolarized pion fragmentation functions using semi-inclusive deep-inelastic-scattering data. Physical Review D, 2021, 104, .	4.7	20
34	Accessing the Pion 3D Structure at US and China Electron-Ion Colliders. Physical Review Letters, 2022, 128, .	7.8	20
35	Kaon mixing beyond the SM from $N_f = 2$ tmQCD and model independent constraints from the UTA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	18
36	An experimental program with high duty-cycle polarized and unpolarized positron beams at Jefferson Lab. European Physical Journal A, 2021, 57, 1.	2.5	17

#	ARTICLE	IF	CITATIONS
37	APFEL++: A new PDF evolution library in C++. , 2017, , .		14
38	Pion generalized parton distributions: A path toward phenomenology. Physical Review D, 2022, 105, .	4.7	14
39	Reference results for time-like evolution up to $O(\alpha_s^3)$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	13
40	Impact of the heavy-quark matching scales in PDF fits. European Physical Journal C, 2017, 77, 837.	3.9	11
41	Heavy-flavor parton distributions without heavy-flavor matching prescriptions. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
42	On the impact of NMC data on NLO and NNLO parton distributions and Higgs production at the Tevatron and the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 36-42.	4.1	10
43	PDF profiling using the forward-backward asymmetry in Neutral Current Drell-Yan production. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
44	A determination of m_c (m_c) from HERA data using a matched heavy-flavor scheme. Journal of High Energy Physics, 2016, 2016, 1.	4.7	7
45	Probing the strange content of the proton with charm production in charged current at LHeC. European Physical Journal C, 2019, 79, 1.	3.9	5
46	Impact of a positron beam at JLab on an unbiased determination of DVCS Compton form factors. European Physical Journal A, 2021, 57, 1.	2.5	5
47	xFitter 2.0.0: An Open Source QCD Fit Framework. , 2017, , .		4
48	Combining NNPDF3.0 and NNPDF2.3QED through the APFEL evolution code. , 2016, , .		2
49	Perturbative hysteresis and emergent resummation scales. Physical Review D, 2022, 105, .	4.7	2
50	Parton distributions with the combined HERA charm production cross sections. , 2013, , .		0
51	Towards parton distributions with fitted charm. Nuclear and Particle Physics Proceedings, 2016, 270-272, 23-26.	0.5	0
52	xFitter 2.0.0: Heavy quark matching scales: Unifying the FFNS and VFNS. , 2018, , .		0
53	Recent QCD results from the xFitter project - Probing the strange content of the proton with charm production in charged current at LHeC. , 2019, , .		0
54	Shadow generalized parton distributions: a practical approach to the deconvolution problem of DVCS. SciPost Physics Proceedings, 2022, , .	0.4	0