

# Richard D Ball

## List of Publications by Year in descending order

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33  
papers

6,257  
citations

236925

25  
h-index

414414

32  
g-index

33  
all docs

33  
docs citations

33  
times ranked

7084  
citing authors

#	ARTICLE	IF	CITATIONS
1	The path to proton structure at 1% accuracy. European Physical Journal C, 2022, 82, .	3.9	138
2	The PDF4LHC21 combination of global PDF fits for the LHC Run III*. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 080501.	3.6	44
3	Deuteron uncertainties in the determination of proton PDFs. European Physical Journal C, 2021, 81, 1.	3.9	15
4	Correlation of theoretical uncertainties in PDF fits and theoretical uncertainties in predictions. European Physical Journal C, 2021, 81, 1.	3.9	6
5	An open-source machine learning framework for global analyses of parton distributions. European Physical Journal C, 2021, 81, 1.	3.9	26
6	Correlation and combination of sets of parton distributions. European Physical Journal C, 2021, 81, 1.	3.9	8
7	A first determination of parton distributions with theoretical uncertainties. European Physical Journal C, 2019, 79, 1.	3.9	19
8	Nuclear uncertainties in the determination of proton PDFs. European Physical Journal C, 2019, 79, 1.	3.9	18
9	Parton distributions with theory uncertainties: general formalism and first phenomenological studies. European Physical Journal C, 2019, 79, 1.	3.9	51
10	Parton distributions with small-x resummation: evidence for BFKL dynamics in HERA data. European Physical Journal C, 2018, 78, 321.	3.9	118
11	Precision determination of the strong coupling constant within a global PDF analysis. European Physical Journal C, 2018, 78, 408.	3.9	39
12	The proton spin, semi-inclusive processes, and measurements at a future Electron Ion Collider. , 2018, , 205-226.		8
13	Parton distributions from high-precision collider data. European Physical Journal C, 2017, 77, 663.	3.9	897
14	Charm production: Pole mass or running mass?. AIP Conference Proceedings, 2017, , .	0.4	3
15	A determination of the charm content of the proton. European Physical Journal C, 2016, 76, 647.	3.9	75
16	The asymptotic behaviour of parton distributions at small and large x. European Physical Journal C, 2016, 76, 383.	3.9	53
17	Charm in deep-inelastic scattering. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
18	Parton distributions with threshold resummation. Journal of High Energy Physics, 2015, 2015, 1.	4.7	48

#	ARTICLE	IF	CITATIONS
19	The PDF4LHC report on PDFs and LHC data: results from Run I and preparation for Run II. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 103103.	3.6	77
20	Parton distributions for the LHC run II. Journal of High Energy Physics, 2015, 2015, 1.	4.7	1,298
21	Parton distribution benchmarking with LHC data. Journal of High Energy Physics, 2013, 2013, 1.	4.7	104
22	Parton distributions with QED corrections. Nuclear Physics B, 2013, 877, 290-320.	2.5	425
23	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
24	Parton distributions with LHC data. Nuclear Physics B, 2013, 867, 244-289.	2.5	1,299
25	Unbiased global determination of parton distributions and their uncertainties at NNLO and at LO. Nuclear Physics B, 2012, 855, 153-221.	2.5	198
26	Reweighting and unweighting of parton distributions and the LHC W lepton asymmetry data. Nuclear Physics B, 2012, 855, 608-638.	2.5	122
27	Reweighting NNPDFs: The W lepton asymmetry. Nuclear Physics B, 2011, 849, 112-143.	2.5	114
28	Impact of heavy quark masses on parton distributions and LHC phenomenology. Nuclear Physics B, 2011, 849, 296-363.	2.5	271
29	Fitting parton distribution data with multiplicative normalization uncertainties. Journal of High Energy Physics, 2010, 2010, 1.	4.7	84
30	A first unbiased global NLO determination of parton distributions and their uncertainties. Nuclear Physics B, 2010, 838, 136-206.	2.5	291
31	A determination of parton distributions with faithful uncertainty estimation. Nuclear Physics B, 2009, 809, 1-63.	2.5	207
32	High energy resummation of Drell-Yan processes. Nuclear Physics B, 2009, 814, 246-264.	2.5	45
33	Precision determination of electroweak parameters and the strange content of the proton from neutrino deep-inelastic scattering. Nuclear Physics B, 2009, 823, 195-233.	2.5	95