

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	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	A first unbiased global NLO determination of parton distributions and their uncertainties. Nuclear Physics B, 2010, 838, 136-206.	2.5	291
6	Impact of heavy quark masses on parton distributions and LHC phenomenology. Nuclear Physics B, 2011, 849, 296-363.	2.5	271
7	A determination of parton distributions with faithful uncertainty estimation. Nuclear Physics B, 2009, 809, 1-63.	2.5	207
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	The path to proton structure at 1% accuracy. European Physical Journal C, 2022, 82, .	3.9	138
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	Parton distribution benchmarking with LHC data. Journal of High Energy Physics, 2013, 2013, 1.	4.7	104
14	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
15	Fitting parton distribution data with multiplicative normalization uncertainties. Journal of High Energy Physics, 2010, 2010, 1.	4.7	84
16	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
17	A determination of the charm content of the proton. European Physical Journal C, 2016, 76, 647.	3.9	75
18	The asymptotic behaviour of parton distributions at small and large x. European Physical Journal C, 2016, 76, 383.	3.9	53

#	ARTICLE	IF	CITATIONS
19	Parton distributions with theory uncertainties: general formalism and first phenomenological studies. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	51
20	Parton distributions with threshold resummation. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	48
21	High energy resummation of Drell-Yan processes. <i>Nuclear Physics B</i> , 2009, 814, 246-264.	2.5	45
22	The PDF4LHC21 combination of global PDF fits for the LHC Run III*. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2022, 49, 080501.	3.6	44
23	Precision determination of the strong coupling constant within a global PDF analysis. <i>European Physical Journal C</i> , 2018, 78, 408.	3.9	39
24	Theoretical issues in PDF determination and associated uncertainties. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 723, 330-339.	4.1	31
25	Charm in deep-inelastic scattering. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	30
26	An open-source machine learning framework for global analyses of parton distributions. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	26
27	A first determination of parton distributions with theoretical uncertainties. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	19
28	Nuclear uncertainties in the determination of proton PDFs. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	18
29	Deuteron uncertainties in the determination of proton PDFs. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	15
30	The proton spin, semi-inclusive processes, and measurements at a future Electron Ion Collider. , 2018, , 205-226.		8
31	Correlation and combination of sets of parton distributions. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	8
32	Correlation of theoretical uncertainties in PDF fits and theoretical uncertainties in predictions. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	6
33	Charm production: Pole mass or running mass?. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3