

# Matthew Wing

## List of Publications by Year in descending order

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85  
papers

2,572  
citations

218381

26  
h-index

189595

50  
g-index

87  
all docs

87  
docs citations

87  
times ranked

5929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of jet-production data on the next-to-next-to-leading-order determination of HERAPDF2.0 parton distributions. <i>European Physical Journal C</i> , 2022, 82, 1.	1.4	8
2	Recovery time of a plasma-wakefield accelerator. <i>Nature</i> , 2022, 603, 58-62.	13.7	17
3	Experimental study of extended timescale dynamics of a plasma wakefield driven by a self-modulated proton bunch. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	0.6	3
4	Azimuthal correlations in photoproduction and deep inelastic ep scattering at HERA. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	1
5	Study of proton parton distribution functions at high $x$ using ZEUS data. <i>Physical Review D</i> , 2020, 101, .	1.6	5
6	Two-particle azimuthal correlations as a probe of collective behaviour in deep inelastic ep scattering at HERA. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	11
7	Bright x-ray radiation from plasma bubbles in an evolving laser wakefield accelerator. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	0.6	5
8	FLASHForward: plasma wakefield accelerator science for high-average-power applications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180392.	1.6	25
9	Particle physics experiments based on the AWAKE acceleration scheme. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180185.	1.6	4
10	Charm production in charged current deep inelastic scattering at HERA. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	4
11	Experimental Observation of Plasma Wakefield Growth Driven by the Seeded Self-Modulation of a Proton Bunch. <i>Physical Review Letters</i> , 2019, 122, 054801.	2.9	49
12	Experimental Observation of Proton Bunch Modulation in a Plasma at Varying Plasma Densities. <i>Physical Review Letters</i> , 2019, 122, 054802.	2.9	49
13	Wakefields in a cluster plasma. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	0.6	1
14	AWAKE readiness for the study of the seeded self-modulation of a 400 GeV proton bunch. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014046.	0.9	37
15	Combination and QCD analysis of charm and beauty production cross-section measurements in deep inelastic ep scattering at HERA. <i>European Physical Journal C</i> , 2018, 78, 1.	1.4	49
16	Acceleration of electrons in the plasma wakefield of a proton bunch. <i>Nature</i> , 2018, 561, 363-367.	13.7	162
17	Further studies of isolated photon production with a jet in deep inelastic scattering at HERA. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	3
18	Observation of Laser Power Amplification in a Self-Injecting Laser Wakefield Accelerator. <i>Physical Review Letters</i> , 2018, 120, 254801.	2.9	18

#	ARTICLE	IF	CITATIONS
19	Looking inside the proton at HERA: investigating the fundamental forces and structure of matter. , 2018, , 73-99.		0
20	Brilliant X-rays using a Two-Stage Plasma Insertion Device. Scientific Reports, 2017, 7, 3985.	1.6	3
21	Investigation into the limits of perturbation theory at low Q <sup>2</sup> using HERA deep inelastic scattering data. Physical Review D, 2017, 96, .	1.6	8
22	Delivering the world's most intense muon beam. Physical Review Accelerators and Beams, 2017, 20, .	0.6	32
23	AWAKE, The Advanced Proton Driven Plasma Wakefield Acceleration Experiment at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 829, 76-82.	0.7	77
24	Study of HERA data at low Q <sup>2</sup> and low Bjorken x	1.6	19
25	VHEEP: a very high energy electron-proton collider. European Physical Journal C, 2016, 76, 1.	1.4	29
26	Production of exclusive dijets in diffractive deep inelastic scattering at HERA. European Physical Journal C, 2016, 76, 1.	1.4	10
27	Path to AWAKE: Evolution of the concept. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 829, 3-16.	0.7	55
28	Combination of measurements of inclusive deep inelastic $e^+p$ scattering cross sections and QCD analysis of HERA data. European Physical Journal C, 2015, 75, 1.	1.4	383
29	Combination of differential $\hat{\sigma}_{\pm}$ cross-section measurements in deep-inelastic ep scattering at HERA. Journal of High Energy Physics, 2015, 2015, 1.	1.6	4
30	Quantitative single shot and spatially resolved plasma wakefield diagnostics. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	5
31	Simulation of density measurements in plasma wakefields using photon acceleration. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	3
32	Measurement of beauty and charm production in deep inelastic scattering at HERA and measurement of the beauty-quark mass. Journal of High Energy Physics, 2014, 2014, 1.	1.6	33
33	Proton-driven plasma wakefield acceleration: a path to the future of high-energy particle physics. Plasma Physics and Controlled Fusion, 2014, 56, 084013.	0.9	68
34	Measurement of D <sup>+</sup> photoproduction at three different centre-of-mass energies at HERA. Journal of High Energy Physics, 2014, 2014, 1.	1.6	1
35	Measurement of beauty and charm production in deep inelastic scattering at HERA and measurement of the beauty-quark mass. Journal of High Energy Physics, 2014, 2014, 1.	1.6	14
36	Measurement of neutral current $\hat{\sigma}_{\pm}$ cross sections at high Bjorken x with the ZEUS detector. Physical Review D, 2014, 89, .	1.6	6

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37	Further studies of the photoproduction of isolated photons with a jet at HERA. Journal of High Energy Physics, 2014, 2014, 1.	1.6	3
38	Collider design issues based on proton-driven plasma wakefield acceleration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 740, 173-179.	0.7	11
39	Measurement of beauty and charm production in deep inelastic scattering at HERA and measurement of the beauty-quark mass. , 2014, 2014, 1.		2
40	Measurement of $D^*\hat{A}\pm$ production in deep inelastic scattering at HERA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	8
41	Measurement of $D^*\hat{A}\pm$ production in deep inelastic ep scattering with the ZEUS detector at HERA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	8
42	Measurement of inelastic $J/\psi$ and $\Upsilon$ photoproduction at HERA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	7
43	Measurement of charm fragmentation fractions in photoproduction at HERA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	23
44	Combination and QCD analysis of charm production cross section measurements in deep-inelastic ep scattering at HERA. European Physical Journal C, 2013, 73, 1.	1.4	134
45	Experiences with the MTCA.4 solution for the EuXFEL clock and control system. , 2012, , .		0
46	Combined inclusive diffractive cross sections measured with forward proton spectrometers in deep inelastic ep scattering at HERA. European Physical Journal C, 2012, 72, 1.	1.4	33
47	Exclusive electroproduction of two pions at HERA. European Physical Journal C, 2012, 72, 1.	1.4	7
48	Scaled momentum distributions for $K_S^0$ and $\Lambda/\bar{\Lambda}$ in DIS at HERA. Journal of High Energy Physics, 2012, 2012, 1.	1.6	1
49	Measurement of beauty production in deep inelastic scattering at HERA using decays into electrons. European Physical Journal C, 2011, 71, 1.	1.4	13
50	Measurement of heavy-quark jet photoproduction at HERA. European Physical Journal C, 2011, 71, 1.	1.4	13
51	Study of taupair production at HERA. Journal of High Energy Physics, 2011, 2011, 1.	1.6	1
52	A physics &#x03BC;TCA solution for the EuXFEL Clock and Control System. , 2011, , .		0
53	Measurement of charm and beauty production in deep inelastic ep scattering from decays into muons at HERA. European Physical Journal C, 2010, 65, 65-79.	1.4	46
54	Measurement of beauty production in DIS and extraction at ZEUS. European Physical Journal C, 2010, 69, 347-360.	1.4	19

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55	Measurement of high-Q 2 charged current deep inelastic scattering cross sections with a longitudinally polarised positron beam at HERA. European Physical Journal C, 2010, 70, 945-963.	1.4	29
56	Inclusive dijet cross sections in neutral current deep inelastic scattering at HERA. European Physical Journal C, 2010, 70, 965-982.	1.4	27
57	Combined measurement and QCD analysis of the inclusive $e^+p$ scattering cross sections at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	458
58	Events with an isolated lepton and missing transverse momentum and measurement of W production at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	8
59	Measurement of $J/\psi$ photoproduction at large momentum transfer at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	12
60	Scaled momentum spectra in deep inelastic scattering at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	2
61	Measurement of $D^+$ and $\bar{D}^0$ production in deep inelastic scattering at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	5
62	Production of excited charm and charm-strange mesons at HERA. European Physical Journal C, 2009, 60, 25-45.	1.4	28
63	Measurement of charged current deep inelastic scattering cross sections with a longitudinally polarised electron beam at HERA. European Physical Journal C, 2009, 61, 223-235.	1.4	28
64	Measurement of high-Q 2 neutral current deep inelastic $e^+p$ scattering cross sections with a longitudinally polarised electron beam at HERA. European Physical Journal C, 2009, 62, 625-658.	1.4	30
65	Measurement of $D^{\pm}$ and $D^0$ production in deep inelastic scattering using a lifetime tag at HERA. European Physical Journal C, 2009, 63, 171-188.	1.4	47
66	Subject distributions in deep inelastic scattering at HERA. European Physical Journal C, 2009, 63, 527-548.	1.4	7
67	Diffraction photoproduction of dijets in ep collisions at HERA. European Physical Journal C, 2008, 55, 177-191.	1.4	41
68	Estimation of radiation effects in the front-end electronics of an ILC electromagnetic calorimeter. , 2008, , .		1
69	Measurement of prompt photons with associated jets in photoproduction at HERA. European Physical Journal C, 2007, 49, 511-522.	1.4	24
70	Measurement of neutral current cross sections at high Bjorken-x with the ZEUS detector at HERA. European Physical Journal C, 2007, 49, 523-544.	1.4	4
71	Search for stop production in R-parity-violating supersymmetry at HERA. European Physical Journal C, 2007, 50, 269.	1.4	18
72	Photoproduction of events with rapidity gaps between jets at HERA. European Physical Journal C, 2007, 50, 283-297.	1.4	10

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73	Measurement of open beauty production at HERA in the $D^* \rightarrow \gamma$ final state. European Physical Journal C, 2007, 50, 299-314.	1.4	19
74	Measurement of $K_0 S, \hat{\nu}$ and $\hat{\nu}_\perp$ production at HERA. European Physical Journal C, 2007, 51, 1-23.	1.4	17
75	Measurement of azimuthal asymmetries in neutral current deep inelastic scattering at HERA. European Physical Journal C, 2007, 51, 289-299.	1.4	13
76	Diffractive photoproduction of $D^* \Lambda_\pm(2010)$ at HERA. European Physical Journal C, 2007, 51, 301-315.	1.4	18
77	Forward-jet production in deep inelastic ep scattering at HERA. European Physical Journal C, 2007, 52, 515-530.	1.4	12
78	Dijet production in diffractive deep inelastic scattering at HERA. European Physical Journal C, 2007, 52, 813-832.	1.4	31
79	Data acquisition in the EUDET project. Pramana - Journal of Physics, 2007, 69, 1185-1189.	0.9	0
80	HIGHLIGHTS FROM ZEUS. , 2007, , .		0
81	HEAVY QUARK PRODUCTION AT HERA AND ITS RELEVANCE FOR THE LHC. , 2007, , .		0
82	Diffractive dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 5, 41-56.	1.4	7
83	Measurement of the diffractive structure function $F_2 D(4)$ at HERA. European Physical Journal C, 1998, 1, 81-96.	1.4	63
84	Measurement of the diffractive structure function. European Physical Journal C, 1998, 1, 81.	1.4	59
85	Diffractive dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 5, 41.	1.4	24