Matthew Wing

List of Publications by Year
in descending order

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85	2,572	218592	189801
papers	citations	26 h-index	50 g-index

87	87	87	5929
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Combined measurement and QCD analysis of the inclusive e Â± p scattering cross sections at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	458
2	Combination of measurements of inclusive deep inelastic $${e^{pm }p}$$ e Â± p scattering cross sections and QCD analysis of HERA data. European Physical Journal C, 2015, 75, 1.	1.4	383
3	Acceleration of electrons in the plasma wakefield of a proton bunch. Nature, 2018, 561, 363-367.	13.7	162
4	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
5	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
6	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
7	Measurement of the diffractive structure functionF 2 D(4) at HERA. European Physical Journal C, 1998, 1, 81-96.	1.4	63
8	Measurement of the diffractive structure function. European Physical Journal C, 1998, 1, 81.	1.4	59
9	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
10	Combination and QCD analysis of charm and beauty production cross-section measurements in deep inelastic ep scattering at HERA. European Physical Journal C, 2018, 78, 1.	1.4	49
11	Experimental Observation of Plasma Wakefield Growth Driven by the Seeded Self-Modulation of a Proton Bunch. Physical Review Letters, 2019, 122, 054801.	2.9	49
12	Experimental Observation of Proton Bunch Modulation in a Plasma at Varying Plasma Densities. Physical Review Letters, 2019, 122, 054802.	2.9	49
13	Measurement of D Â± 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
14	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
15	Diffractive photoproduction of dijets in ep collisions at HERA. European Physical Journal C, 2008, 55, 177-191.	1.4	41
16	AWAKE readiness for the study of the seeded self-modulation of a 400 GeV proton bunch. Plasma Physics and Controlled Fusion, 2018, 60, 014046.	0.9	37
17	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
18	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

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19	Delivering the worldâ€™s most intense muon beam. Physical Review Accelerators and Beams, 2017, 20, .	0.6	32
20	Dijet production in diffractive deep inelastic scattering at HERA. European Physical Journal C, 2007, 52, 813-832.	1.4	31
21	Measurement of high-Q 2 neutral current deep inelastic e âˆ’ pÂscattering cross sections with a longitudinally polarised electronÂbeamÂat HERA. European Physical Journal C, 2009, 62, 625-658.	1.4	30
22	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
23	VHEeP: a very high energy electronâ€“proton collider. European Physical Journal C, 2016, 76, 1.	1.4	29
24	Production of excited charm and charm-strange mesons at HERA. European Physical Journal C, 2009, 60, 25-45.	1.4	28
25	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
26	Inclusive dijet cross sections inÂneutralÂcurrentÂdeepÂinelastic scatteringÂatÂHERA. European Physical Journal C, 2010, 70, 965-982.	1.4	27
27	FLASHForward: plasma wakefield accelerator science for high-average-power applications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180392.	1.6	25
28	Measurement of prompt photons with associated jets in photoproduction at HERA. European Physical Journal C, 2007, 49, 511-522.	1.4	24
29	Diffractive dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 5, 41.	1.4	24
30	Measurement of charm fragmentation fractions in photoproduction at HERA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	23
31	Measurement of open beauty production at HERA in the D*Î¼ final state. European Physical Journal C, 2007, 50, 299-314.	1.4	19
32	Measurement of beauty production in DIS and extraction atÂZEUS. European Physical Journal C, 2010, 69, 347-360.	1.4	19
33	Study of HERA<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>e</mml:mi><mml:mi>p</mml:mi></mml:math>data at low<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Q</mml:mi><mml:mn>2</mml:mn></mml:msup></mml:math>and low<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>x</mml:mi></mml:mrow><mml:mrow><mml:mi>Bj</mml:mi></mml:mrow>	1.6	19
34	Search for stop production in R-parity-violating supersymmetry at HERA. European Physical Journal C, 2007, 50, 269.	1.4	18
35	Diffractive photoproduction of D*Â±(2010) at HERA. European Physical Journal C, 2007, 51, 301-315.	1.4	18
36	Observation of Laser Power Amplification in a Self-Injecting Laser Wakefield Accelerator. Physical Review Letters, 2018, 120, 254801.	2.9	18

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37	Measurement of K0 S, Î› and Î›Ì„ production at HERA. European Physical Journal C, 2007, 51, 1-23.	1.4	17
38	Recovery time of a plasma-wakefield accelerator. Nature, 2022, 603, 58-62.	13.7	17
39	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
40	Measurement of azimuthal asymmetries in neutral current deep inelastic scattering at HERA. European Physical Journal C, 2007, 51, 289-299.	1.4	13
41	Measurement of beauty production in deep inelastic scattering atÂHERA using decays into electrons. European Physical Journal C, 2011, 71, 1.	1.4	13
42	Measurement of heavy-quark jet photoproduction at HERA. European Physical Journal C, 2011, 71, 1.	1.4	13
43	Forward-jet production in deep inelastic ep scattering at HERA. European Physical Journal C, 2007, 52, 515-530.	1.4	12
44	Measurement of J/Ï^ photoproduction at large momentum transfer at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	12
45	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
46	Two-particle azimuthal correlations as a probe of collective behaviour in deep inelastic ep scattering at HERA. Journal of High Energy Physics, 2020, 2020, 1.	1.6	11
47	Photoproduction of events with rapidity gaps between jets at HERA. European Physical Journal C, 2007, 50, 283-297.	1.4	10
48	Production of exclusive dijets in diffractive deep inelastic scattering at HERA. European Physical Journal C, 2016, 76, 1.	1.4	10
49	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
50	Measurement of D*Â± production in deep inelastic scattering at HERA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	8
51	Measurement of D Â± production in deep inelastic ep scattering with the ZEUS detector at HERA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	8
52	Investigation into the limits of perturbation theory at low Q2 using HERA deep inelastic scattering data. Physical Review D, 2017, 96, .	1.6	8
53	Impact of jet-production data on the next-to-next-to-leading-order determination of HERAPDF2.0 parton distributions. European Physical Journal C, 2022, 82, 1.	1.4	8
54	Diffractive dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 5, 41-56.	1.4	7

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55	Subjet distributions in deep inelastic scattering at HERA. European Physical Journal C, 2009, 63, 527-548.	1.4	7
56	Exclusive electroproduction of two pions at HERA. European Physical Journal C, 2012, 72, 1.	1.4	7
57	Measurement of inelastic J/Î^ and Ï^â€² photoproduction at HERA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	7
58	Measurement of neutral currenteÂ±pcross sections at high Bjorkenxwith the ZEUS detector. Physical Review D, 2014, 89, .	1.6	6
59	Measurement of D + and Î› c + production in deep inelastic scattering at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	5
60	Study of proton parton distribution functions at high <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>x</mml:mi></mml:math> using ZEUS data. Physical Review D, 2020, 101, .	1.6	5
61	Bright x-ray radiation from plasma bubbles in an evolving laser wakefield accelerator. Physical Review Accelerators and Beams, 2020, 23, .	0.6	5
62	Quantitative single shot and spatially resolved plasma wakefield diagnostics. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	5
63	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
64	Combination of differential Dâ^—Â± cross-section measurements in deep-inelastic ep scattering at HERA. Journal of High Energy Physics, 2015, 2015, 1.	1.6	4
65	Particle physics experiments based on the AWAKE acceleration scheme. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180185.	1.6	4
66	Charm production in charged current deep inelastic scattering at HERA. Journal of High Energy Physics, 2019, 2019, 1.	1.6	4
67	Further studies of the photoproduction of isolated photons with a jet at HERA. Journal of High Energy Physics, 2014, 2014, 1.	1.6	3
68	Brilliant X-rays using a Two-Stage Plasma Insertion Device. Scientific Reports, 2017, 7, 3985.	1.6	3
69	Further studies of isolated photon production with a jet in deep inelastic scattering at HERA. Journal of High Energy Physics, 2018, 2018, 1.	1.6	3
70	Experimental study of extended timescale dynamics of a plasma wakefield driven by a self-modulated proton bunch. Physical Review Accelerators and Beams, 2021, 24, .	0.6	3
71	Simulation of density measurements in plasma wakefields using photon acceleration. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	3
72	Scaled momentum spectra in deep inelastic scattering at HERA. Journal of High Energy Physics, 2010, 2010, 1.	1.6	2

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73	Measurement of beauty and charm production in deep inelastic scattering at HERA and measurement of the beauty-quark mass. , 2014, 2014, 1.		2
74	Estimation of radiation effects in the front-end electronics of an ILC electromagnetic calorimeter. , 2008, , .		1
75	Study of taupair production at HERA. Journal of High Energy Physics, 2011, 2011, 1.	1.6	1
76	Scaled momentum distributions for $ K_S^0 $KS and $ Lambda /ar{Lambda } $ in DIS at HERA. Journal of High Energy Physics, 2012, 2012, 1.	1.6	1
77	Measurement of D âˆ— photoproduction at three different centre-of-mass energies at HERA. Journal of High Energy Physics, 2014, 2014, 1.	1.6	1
78	Wakefields in a cluster plasma. Physical Review Accelerators and Beams, 2019, 22, .	0.6	1
79	Azimuthal correlations in photoproduction and deep inelastic ep scattering at HERA. Journal of High Energy Physics, 2021, 2021, 1.	1.6	1
80	Data acquisition in the EUDET project. Pramana - Journal of Physics, 2007, 69, 1185-1189.	0.9	0
81	A physics μTCA solution for the EuXFEL Clock and Control System. , 2011, , .		0
82	Experiences with the MTCA.4 solution for the EuXFEL clock and control system. , 2012, , .		0
83	HIGHLIGHTS FROM ZEUS. , 2007, , .		0
84	HEAVY QUARK PRODUCTION AT HERA AND ITS RELEVANCE FOR THE LHC. , 2007, , .		0
85	Looking inside the proton at HERA: investigating the fundamental forces and structure of matter. , 2018, , 73-99.		0