

Af Å»arnecki

List of Publications by Year in descending order

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150
papers

4,474
citations

186265

28
h-index

106344

65
g-index

153
all docs

153
docs citations

153
times ranked

7362
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined measurement and QCD analysis of the inclusive $e^{\pm} p$ scattering cross sections at HERA. Journal of High Energy Physics, 2010, 2010, 1.	4.7	458
2	Broadband observations of the naked-eye γ -ray burst GRB 080319B. Nature, 2008, 455, 183-188.	27.8	449
3	A Large Hadron Electron Collider at CERN Report on the Physics and Design Concepts for Machine and Detector. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 075001.	3.6	406
4	Combination of measurements of inclusive deep inelastic $e^{\pm} p$ scattering cross sections and QCD analysis of HERA data. European Physical Journal C, 2015, 75, 1.	3.9	383
5	Physics interplay of the LHC and the ILC. Physics Reports, 2006, 426, 47-358.	25.6	297
6	Measurement of the F_2 structure function in deep inelastic $e^{\pm} p$ scattering using 1994 data from the ZEUS detector at HERA. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 399-424.	1.5	137
7	Combination and QCD analysis of charm production cross section measurements in deep-inelastic ep scattering at HERA. European Physical Journal C, 2013, 73, 1.	3.9	134
8	Comparison of ZEUS data with standard model predictions for $e^+p \rightarrow e^+X$ scattering at high x and Q^2 . Zeitschrift für Physik C-Particles and Fields, 1997, 74, 207-220.	1.5	131
9	Measurement of the proton structure function F_2 and at low and very low x at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 407, 432-448.	4.1	129
10	THE PHOTON COLLIDER AT TESLA. International Journal of Modern Physics A, 2004, 19, 5097-5186.	1.5	120
11	Higgs physics at the CLIC electron-positron linear collider. European Physical Journal C, 2017, 77, 475.	3.9	112
12	Transition from fireball to Poynting-flux-dominated outflow in the three-episode GRB 160625B. Nature Astronomy, 2018, 2, 69-75.	10.1	107
13	charm production in deep inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 407, 402-418.	4.1	91
14	Measurement of the diffractive structure function $F_2^D(4)$ at HERA. European Physical Journal C, 1998, 1, 81-96.	3.9	63
15	Measurement of the diffractive structure function. European Physical Journal C, 1998, 1, 81.	3.9	59
16	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.	3.9	49
17	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.	3.9	47
18	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.	3.9	46

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19	Diffractive photoproduction of dijets in ep collisions at HERA. European Physical Journal C, 2008, 55, 177-191.	3.9	41
20	Benchmarking the Inert Doublet Model for $e+e^{\gamma}$ colliders. Journal of High Energy Physics, 2018, 2018, 1.	4.7	40
21	Inclusive charged particle distributions in deep inelastic scattering events at HERA. Zeitschrift für Physik C-Particles and Fields, 1996, 70, 1-15.	1.5	35
22	Combined inclusive diffractive cross sections measured with forward proton spectrometers in deep inelastic ep scattering at HERA. European Physical Journal C, 2012, 72, 1.	3.9	33
23	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.	4.7	33
24	Dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 1, 109-122.	3.9	32
25	Dijet production in diffractive deep inelastic scattering at HERA. European Physical Journal C, 2007, 52, 813-832.	3.9	31
26	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.	3.9	30
27	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.	3.9	29
28	Production of excited charm and charm-strange mesons at HERA. European Physical Journal C, 2009, 60, 25-45.	3.9	28
29	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.	3.9	28
30	Dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 1, 109.	3.9	27
31	Inclusive dijet cross sections in neutral current deep inelastic scattering at HERA. European Physical Journal C, 2010, 70, 965-982.	3.9	27
32	Observation of isolated high-ET photons in photoproduction at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 413, 201-216.	4.1	25
33	Event shape analysis of deep inelastic scattering events with a large rapidity gap at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 421, 368-384.	4.1	25
34	Measurement of prompt photons with associated jets in photoproduction at HERA. European Physical Journal C, 2007, 49, 511-522.	3.9	24
35	Top-quark physics at the CLIC electron-positron linear collider. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
36	Diffractive dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 5, 41.	3.9	24

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37	Measurement of charm fragmentation fractions in photoproduction at HERA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	23
38	Hadronic energy distributions in deep-inelastic electron-proton scattering. Zeitschrift für Physik C-Particles and Fields, 1993, 59, 231-242.	1.5	22
39	PSF modelling for very wide-field CCD astronomy. Astronomy and Astrophysics, 2013, 551, A119.	5.1	20
40	Exploring inert scalars at CLIC. Journal of High Energy Physics, 2019, 2019, 1.	4.7	20
41	Study of charged π^+ currentep interactions at $Q^2 > 200 \text{ GeV}^2$ with the ZEUS detector at HERA. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 47-64.	1.5	19
42	Differential cross sections of photoproduction in ep collisions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 401, 192-206.	4.1	19
43	Measurement of open beauty production at HERA in the $D^* \rightarrow \pi^0$ final state. European Physical Journal C, 2007, 50, 299-314.	3.9	19
44	Measurement of beauty production in DIS and extraction at ZEUS. European Physical Journal C, 2010, 69, 347-360.	3.9	19
45	Search for stop production in R-parity-violating supersymmetry at HERA. European Physical Journal C, 2007, 50, 269.	3.9	18
46	Diffraction photoproduction of $D^* \rightarrow \pi^0$ at HERA. European Physical Journal C, 2007, 51, 301-315.	3.9	18
47	Study of the Higgs-boson decays into $W^+W^- \gamma\gamma$ and ZZ at the Photon Collider. Journal of High Energy Physics, 2002, 2002, 034-034.	4.7	17
48	Measurement of K^0_S , Λ^0 and Λ^0_b production at HERA. European Physical Journal C, 2007, 51, 1-23.	3.9	17
49	Production of inert scalars at the high energy e^+e^- colliders. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
50	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.	4.7	14
51	Running of the charm-quark mass from HERA deep-inelastic scattering data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 233-238.	4.1	14
52	Measurement of azimuthal asymmetries in neutral current deep inelastic scattering at HERA. European Physical Journal C, 2007, 51, 289-299.	3.9	13
53	Measurement of beauty production in deep inelastic scattering at HERA using decays into electrons. European Physical Journal C, 2011, 71, 1.	3.9	13
54	Measurement of heavy-quark jet photoproduction at HERA. European Physical Journal C, 2011, 71, 1.	3.9	13

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55	Measurement of the cross-section ratio $\hat{\sigma}(\gamma^*2S) / \hat{\sigma}(\gamma^*1S)$ in deep inelastic exclusive ep scattering at HERA. Nuclear Physics B, 2016, 909, 934-953.	2.5	13
56	Global analysis of eeqq contact interactions and future prospects for high energy physics. European Physical Journal C, 1999, 11, 539-557.	3.9	12
57	Forward-jet production in deep inelastic ep scattering at HERA. European Physical Journal C, 2007, 52, 515-530.	3.9	12
58	Search for GRB related prompt optical emission and other fast varying objects with π of the Sky detector. Astrophysics and Space Science, 2007, 309, 531-535.	1.4	12
59	Measurement of J/ψ photoproduction at large momentum transfer at HERA. Journal of High Energy Physics, 2010, 2010, 1.	4.7	12
60	IDM Benchmarks for the LHC and Future Colliders. Symmetry, 2021, 13, 991.	2.2	12
61	Intercalibration of the ZEUS high resolution and backing calorimeters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 313, 126-134.	1.6	11
62	Observation of scaling violations in scaled momentum distributions at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 428-443.	4.1	11
63	Early optical follow-up of the nearby active star DG CVn during its 2014 superflare. Monthly Notices of the Royal Astronomical Society, 2015, 452, 4195-4202.	4.4	11
64	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.	4.7	11
65	Heavy neutrinos at future linear e^+e^- colliders. Journal of High Energy Physics, 2022, 2022, .	4.7	11
66	Photoproduction of events with rapidity gaps between jets at HERA. European Physical Journal C, 2007, 50, 283-297.	3.9	10
67	Photoproduction of isolated photons, inclusively and with a jet, at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 293-301.	4.1	10
68	Limits on the effective quark radius from inclusive ep scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 468-472.	4.1	10
69	Production of exclusive dijets in diffractive deep inelastic scattering at HERA. European Physical Journal C, 2016, 76, 1.	3.9	10
70	Limits on the Flux of Nuclearites and Other Heavy Compact Objects from the Pi of the Sky Project. Physical Review Letters, 2020, 125, 091101.	7.8	10
71	Simulating hard photon production with Whizard. European Physical Journal C, 2020, 80, 1.	3.9	10
72	Determination of the Higgs-boson couplings and CP properties in the SM-like Two Higgs Doublet Model. Journal of High Energy Physics, 2005, 2005, 041-041.	4.7	9

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73	Events with an isolated lepton and missing transverse momentum and measurement of W production at HERA. Journal of High Energy Physics, 2010, 2010, 1.	4.7	8
74	Measurement of $D^*\hat{A}\pm$ production in deep inelastic scattering at HERA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	8
75	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.	4.7	8
76	Sensitivity of future linear e^+e^- colliders to processes of dark matter production with light mediator exchange. European Physical Journal C, 2021, 81, 1.	3.9	8
77	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.	3.9	8
78	Diffraction dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 5, 41-56.	3.9	7
79	Subjet distributions in deep inelastic scattering at HERA. European Physical Journal C, 2009, 63, 527-548.	3.9	7
80	Absolute properties of BG Ind - a bright F3 system just leaving the main sequence~.... Monthly Notices of the Royal Astronomical Society, 2011, 414, 2479-2485.	4.4	7
81	Exclusive electroproduction of two pions at HERA. European Physical Journal C, 2012, 72, 1.	3.9	7
82	Measurement of inelastic J/ψ and Υ photoproduction at HERA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	7
83	Dark-matter-spin effects at future e^+e^- colliders. Journal of High Energy Physics, 2020, 2020, 1.	4.7	7
84	Test of a prototype of the ZEUS backing calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 300, 480-492.	1.6	6
85	Leptoquark signal from global analysis. European Physical Journal C, 2000, 17, 695-706.	3.9	6
86	Beam telescope for medium energy particles based on thin, submicron precision MAPS. , 2007, , .		6
87	Measurement of neutral current $\hat{A}\pm$ cross sections at high Bjorkenxwith the ZEUS detector. Physical Review D, 2014, 89, .	4.7	6
88	Optimising top-quark threshold scan at CLIC using genetic algorithm. Journal of High Energy Physics, 2021, 2021, 1.	4.7	6
89	V473 Lyr, a modulated, period-doubled Cepheid, and UATrA, a double-mode Cepheid observed by MOST. Monthly Notices of the Royal Astronomical Society, 0, , stw3345.	4.4	5
90	Contact interactions: Results from ZEUS and a global analysis. Nuclear Physics, Section B, Proceedings Supplements, 1999, 79, 158-161.	0.4	4

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91	Measurement of neutral current cross sections at high Bjorken-x with the ZEUS detector at HERA. European Physical Journal C, 2007, 49, 523-544.	3.9	4
92	Study of cluster shapes in a monolithic active pixel detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 640-643.	1.6	4
93	Combination of differential D^{\pm} cross-section measurements in deep-inelastic ep scattering at HERA. Journal of High Energy Physics, 2015, 2015, 1.	4.7	4
94	Charm production in charged current deep inelastic scattering at HERA. Journal of High Energy Physics, 2019, 2019, 1.	4.7	4
95	Study of charged-current ρ interactions at $Q^2 > 200, \sqrt{s} > 200$ GeV with the ZEUS detector at HERA. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 47-64.	1.5	4
96	Global analysis of. European Physical Journal C, 1999, 11, 539.	3.9	4
97	Measurement of the proton structure function F_2 at low x and low Q^2 at HERA. Zeitschrift für Physik C-Particles and Fields, 1995, 69, 607-620.	1.5	3
98	Pi of the Sky robotic telescope. Proceedings of SPIE, 2013, , .	0.8	3
99	Further studies of the photoproduction of isolated photons with a jet at HERA. Journal of High Energy Physics, 2014, 2014, 1.	4.7	3
100	Pi of the Sky robotic observatories in Chile and Spain. Proceedings of SPIE, 2014, , .	0.8	3
101	Sensitivity of CLIC at 380 GeV to the top FCNC decay $t \rightarrow ch$. Journal of Physics: Conference Series, 2017, 873, 012049.	0.4	3
102	Further studies of isolated photon production with a jet in deep inelastic scattering at HERA. Journal of High Energy Physics, 2018, 2018, 1.	4.7	3
103	The Inert Doublet Model at current and future colliders. Journal of Physics: Conference Series, 2020, 1586, 012023.	0.4	3
104	Luiza: Analysis Framework for GLORIA. Acta Polytechnica, 2013, 53, .	0.6	3
105	Measurement of elastic π^0 photoproduction at HERA. Zeitschrift für Physik C-Particles and Fields, 1995, 69, 39-54.	1.5	2
106	Leptoquark searches in TESLA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 472, 248-253.	1.6	2
107	<title>Study of rapidly varying astrophysical objects with the Pi-of-the-Sky apparatus</title>. , 2006, , .		2
108	<title>Limits on GRB early optical emission from Pi-of-the-Sky system</title>. , 2006, , .		2

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127	Pi of the Sky: modelling of the detector response for more effective search for optical GRB counterparts. , 2010, , .		1
128	Possibility of Dark Matter Detection at Future e^+e^- Colliders. Acta Physica Polonica B, 2019, 50, 1799.	0.8	1
129	Improving photometry of the Pi of the Sky. Proceedings of SPIE, 2010, , .	0.8	1
130	Pi of the Sky in LSC-Virgo's EM follow-up in O1 science run. Proceedings of SPIE, 2017, , .	0.8	1
131	Azimuthal correlations in photoproduction and deep inelastic ep scattering at HERA. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1
132	Searches for invisible scalar decays at CLIC. SciPost Physics Proceedings, 2022, , .	0.4	1
133	Search for leptoquark production and lepton flavour violation. European Physical Journal C, 2004, 33, s755-s757.	3.9	0
134	<title>Providing on-line access to the Pi of the Sky data</title>. Proceedings of SPIE, 2007, , .	0.8	0
135	Photon collider beam simulation with CAIN. Pramana - Journal of Physics, 2007, 69, 937-941.	1.8	0
136	Pi of the Sky catalogue of the variable stars from 2006-2007 data. , 2010, , .		0
137	Pointing model of new Pi of the Sky detector in Spain. Proceedings of SPIE, 2011, , .	0.8	0
138	Laboratory measurements and modelling of the π^0 detector response for more effective detection of GRB optical counterparts. , 2011, , .		0
139	Monitoring system of the Pi of the Sky experiment. Proceedings of SPIE, 2012, , .	0.8	0
140	PHOTOMETRIC ANALYSIS OF PI OF THE SKY DATA. Acta Polytechnica, 2014, 54, 225-230.	0.6	0
141	Searching the short-period variable stars with the photometric algorithm implemented in LUIZA framework. , 2015, , .		0
142	Prospects for satellite and space debris observations with Pi of the Sky. Proceedings of SPIE, 2015, , .	0.8	0
143	Comparison of the period detection algorithms based on Pi of the Sky data. Proceedings of SPIE, 2015, , .	0.8	0
144	Pi of the Sky involvement in LSC-Virgo electromagnetic follow-up project. Proceedings of SPIE, 2016, , .	0.8	0

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145	CONTACT INTERACTIONS AT HERA. , 2002, , .		0
146	Search for GRB related prompt optical emission and other fast varying objects with â€œPi of the Skyâ€ detector. , 2007, , 531-535.		0
147	Design of the New Pi of the Sky Robotic Telescope Controlled via Internet. GeoPlanet: Earth and Planetary Sciences, 2015, , 117-128.	0.2	0
148	Pi of the Sky observation of GRB160625B. , 2017, , .		0
149	Measurement of theF 2 structure function in deep inelastice + p scattering using 1994 data from the ZEUS detector at HERA. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1996, 72, 399-424.	1.5	0
150	Top-quark mass determination in the optimised threshold scan. SciPost Physics Proceedings, 2022, , .	0.4	0