

# Af Å»arnecki

## List of Publications by Year in descending order

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150  
papers

4,474  
citations

186265

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g-index

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153  
docs citations

153  
times ranked

7362  
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.	3.9	8
2	Heavy neutrinos at future linear $e^+e^-$ colliders. <i>Journal of High Energy Physics</i> , 2022, 2022, .	4.7	11
3	Top-quark mass determination in the optimised threshold scan. <i>SciPost Physics Proceedings</i> , 2022, , .	0.4	0
4	Dark matter searches with mono-photon signature at future $e^+e^-$ colliders. <i>SciPost Physics Proceedings</i> , 2022, , .	0.4	2
5	Searches for invisible scalar decays at CLIC. <i>SciPost Physics Proceedings</i> , 2022, , .	0.4	1
6	Sensitivity to invisible scalar decays at CLIC. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	2
7	IDM Benchmarks for the LHC and Future Colliders. <i>Symmetry</i> , 2021, 13, 991.	2.2	12
8	Optimising top-quark threshold scan at CLIC using genetic algorithm. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	6
9	Sensitivity of future linear $e^+e^-$ colliders to processes of dark matter production with light mediator exchange. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	8
10	Azimuthal correlations in photoproduction and deep inelastic ep scattering at HERA. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	1
11	Limits on the Flux of Nuclearites and Other Heavy Compact Objects from the Pi of the Sky Project. <i>Physical Review Letters</i> , 2020, 125, 091101.	7.8	10
12	The Inert Doublet Model at current and future colliders. <i>Journal of Physics: Conference Series</i> , 2020, 1586, 012023.	0.4	3
13	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.	4.7	11
14	Dark-matter-spin effects at future $e^+e^-$ colliders. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	7
15	Simulating hard photon production with Whizard. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	10
16	Searching inert scalars at future $e^+e^-$ colliders. , 2020, , .		2
17	Exploring inert scalars at CLIC. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	20
18	Charm production in charged current deep inelastic scattering at HERA. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	4



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37	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
38	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
39	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
40	Searching the short-period variable stars with the photometric algorithm implemented in LUIZA framework. , 2015, , .		0
41	Status of the Pi of the Sky telescopes in Spain and Chile. , 2015, , .		1
42	Prospects for satellite and space debris observations with Pi of the Sky. Proceedings of SPIE, 2015, , .	0.8	0
43	Comparison of the period detection algorithms based on Pi of the Sky data. Proceedings of SPIE, 2015, , .	0.8	0
44	Design of the New Pi of the Sky Robotic Telescope Controlled via Internet. GeoPlanet: Earth and Planetary Sciences, 2015, , 117-128.	0.2	0
45	PHOTOMETRIC ANALYSIS OF PI OF THE SKY DATA. Acta Polytechnica, 2014, 54, 225-230.	0.6	0
46	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
47	Measurement of $D^{\pm}$ photoproduction at three different centre-of-mass energies at HERA. Journal of High Energy Physics, 2014, 2014, 1.	4.7	1
48	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
49	Measurement of neutral current $e^{\pm}p$ cross sections at high Bjorken $x$ with the ZEUS detector. Physical Review D, 2014, 89, .	4.7	6
50	Further studies of the photoproduction of isolated photons with a jet at HERA. Journal of High Energy Physics, 2014, 2014, 1.	4.7	3
51	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
52	Pi of the Sky robotic observatories in Chile and Spain. Proceedings of SPIE, 2014, , .	0.8	3
53	Measurement of beauty and charm production in deep inelastic scattering at HERA and measurement of the beauty-quark mass. , 2014, 2014, 1.		2
54	Measurement of $D^{\pm}$ production in deep inelastic scattering at HERA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	8

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55	Measurement of $D^{\pm}$ production in deep inelastic ep scattering with the ZEUS detector at HERA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	8
56	Measurement of inelastic $J/\psi$ and $\Upsilon$ photoproduction at HERA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	7
57	The GLORIA demonstrator experiment. Proceedings of SPIE, 2013, , .	0.8	1
58	Measurement of charm fragmentation fractions in photoproduction at HERA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	23
59	Parallax in $\pi$ of the Sky project. Advances in Space Research, 2013, 52, 1349-1354.	2.6	2
60	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
61	Status of Pi of the Sky Telescopes in Spain and Chile. EAS Publications Series, 2013, 61, 479-481.	0.3	1
62	Pi of the Sky robotic telescope. Proceedings of SPIE, 2013, , .	0.8	3
63	PSF modelling for very wide-field CCD astronomy. Astronomy and Astrophysics, 2013, 551, A119.	5.1	20
64	Luiza: Analysis Framework for GLORIA. Acta Polytechnica, 2013, 53, .	0.6	3
65	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
66	Monitoring system of the Pi of the Sky experiment. Proceedings of SPIE, 2012, , .	0.8	0
67	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
68	Exclusive electroproduction of two pions at HERA. European Physical Journal C, 2012, 72, 1.	3.9	7
69	Scaled momentum distributions for $K_S^0$ and $\Lambda$ in DIS at HERA. Journal of High Energy Physics, 2012, 2012, 1.	4.7	1
70	Present status of Pi of the Sky telescopes. , 2011, , .		2
71	Pointing model of new Pi of the Sky detector in Spain. Proceedings of SPIE, 2011, , .	0.8	0
72	Laboratory measurements and modelling of the $\pi$ of the Sky detector response for more effective detection of GRB optical counterparts. , 2011, , .		0

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73	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
74	Measurement of beauty production in deep inelastic scattering at HERA using decays into electrons. European Physical Journal C, 2011, 71, 1.	3.9	13
75	Measurement of heavy-quark jet photoproduction at HERA. European Physical Journal C, 2011, 71, 1.	3.9	13
76	Study of taupair production at HERA. Journal of High Energy Physics, 2011, 2011, 1.	4.7	1
77	Pi of the Sky catalogue of the variable stars from 2006-2007 data. , 2010, , .		0
78	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
79	Measurement of beauty production in DIS and extraction at ZEUS. European Physical Journal C, 2010, 69, 347-360.	3.9	19
80	Measurement of high-Q <sup>2</sup> 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
81	Inclusive dijet cross sections in neutral current deep inelastic scattering at HERA. European Physical Journal C, 2010, 70, 965-982.	3.9	27
82	Combined measurement and QCD analysis of the inclusive e <sup>±</sup> p scattering cross sections at HERA. Journal of High Energy Physics, 2010, 2010, 1.	4.7	458
83	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
84	Measurement of J/ψ photoproduction at large momentum transfer at HERA. Journal of High Energy Physics, 2010, 2010, 1.	4.7	12
85	Scaled momentum spectra in deep inelastic scattering at HERA. Journal of High Energy Physics, 2010, 2010, 1.	4.7	2
86	Pi of the Sky: modelling of the detector response for more effective search for optical GRB counterparts. , 2010, , .		1
87	Improving photometry of the Pi of the Sky. Proceedings of SPIE, 2010, , .	0.8	1
88	Prompt optical observations of GRBs with the Pi of the Sky system. , 2009, , .		1
89	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
90	Production of excited charm and charm-strange mesons at HERA. European Physical Journal C, 2009, 60, 25-45.	3.9	28

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91	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
92	Measurement of high-Q <sup>2</sup> neutral current deep inelastic e <sup>+</sup> p scattering cross sections with a longitudinally polarised electron beam at HERA. European Physical Journal C, 2009, 62, 625-658.	3.9	30
93	Measurement of D <sup>±</sup> and D <sup>0</sup> production in deep inelastic scattering using a lifetime tag at HERA. European Physical Journal C, 2009, 63, 171-188.	3.9	47
94	Subjet distributions in deep inelastic scattering at HERA. European Physical Journal C, 2009, 63, 527-548.	3.9	7
95	Variable stars classification based on photometric data from the "Pi of the Sky" project. , 2009, , .		1
96	Diffraction photoproduction of dijets in ep collisions at HERA. European Physical Journal C, 2008, 55, 177-191.	3.9	41
97	Broadband observations of the naked-eye $\hat{\gamma}$ -ray burst GRB 080319B. Nature, 2008, 455, 183-188.	27.8	449
98	Beam telescope for medium energy particles based on thin, submicron precision MAPS. , 2007, , .		6
99	<title>Providing on-line access to the Pi of the Sky data</title>, Proceedings of SPIE, 2007, , .	0.8	0
100	Measurement of prompt photons with associated jets in photoproduction at HERA. European Physical Journal C, 2007, 49, 511-522.	3.9	24
101	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
102	Search for stop production in R-parity-violating supersymmetry at HERA. European Physical Journal C, 2007, 50, 269.	3.9	18
103	Photoproduction of events with rapidity gaps between jets at HERA. European Physical Journal C, 2007, 50, 283-297.	3.9	10
104	Measurement of open beauty production at HERA in the D <sup>*</sup> $\frac{1}{2}$ final state. European Physical Journal C, 2007, 50, 299-314.	3.9	19
105	Measurement of K <sup>0</sup> S <sub>1</sub> , $\hat{\nu}$ and $\hat{\nu}$ <sub>s</sub> production at HERA. European Physical Journal C, 2007, 51, 1-23.	3.9	17
106	Measurement of azimuthal asymmetries in neutral current deep inelastic scattering at HERA. European Physical Journal C, 2007, 51, 289-299.	3.9	13
107	Diffraction photoproduction of D <sup>*</sup> $\frac{1}{2}$ (210) at HERA. European Physical Journal C, 2007, 51, 301-315.	3.9	18
108	Forward-jet production in deep inelastic ep scattering at HERA. European Physical Journal C, 2007, 52, 515-530.	3.9	12

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109	Dijet production in diffractive deep inelastic scattering at HERA. European Physical Journal C, 2007, 52, 813-832.	3.9	31
110	Search for GRB related prompt optical emission and other fast varying objects with "Pi of the Sky" detector. Astrophysics and Space Science, 2007, 309, 531-535.	1.4	12
111	Heavy neutral MSSM Higgs bosons at the photon linear collider " a comparison of two analyses. Pramana - Journal of Physics, 2007, 69, 931-935.	1.8	1
112	Photon collider beam simulation with CAIN. Pramana - Journal of Physics, 2007, 69, 937-941.	1.8	0
113	Search for GRB related prompt optical emission and other fast varying objects with "Pi of the Sky" detector. , 2007, , 531-535.		0
114	<title>Study of rapidly varying astrophysical objects with the Pi-of-the-Sky apparatus</title>. , 2006, , .		2
115	<title>Limits on GRB early optical emission from Pi-of-the-Sky system</title>. , 2006, , .		2
116	Physics interplay of the LHC and the ILC. Physics Reports, 2006, 426, 47-358.	25.6	297
117	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
118	Search for leptoquark production and lepton flavour violation. European Physical Journal C, 2004, 33, s755-s757.	3.9	0
119	THE PHOTON COLLIDER AT TESLA. International Journal of Modern Physics A, 2004, 19, 5097-5186.	1.5	120
120	Study of the Higgs-boson decays into $W+W^{\pm}$ and $ZZ$ at the Photon Collider. Journal of High Energy Physics, 2002, 2002, 034-034.	4.7	17
121	CONTACT INTERACTIONS AT HERA. , 2002, , .		0
122	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
123	Leptoquark signal from global analysis. European Physical Journal C, 2000, 17, 695-706.	3.9	6
124	Contact interactions: Results from ZEUS and a global analysis. Nuclear Physics, Section B, Proceedings Supplements, 1999, 79, 158-161.	0.4	4
125	Global analysis of $eeqq$ contact interactions and future prospects for high energy physics. European Physical Journal C, 1999, 11, 539-557.	3.9	12
126	Global analysis of. European Physical Journal C, 1999, 11, 539.	3.9	4

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127	Dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 1, 109.	3.9	27
128	Diffraction dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 5, 41-56.	3.9	7
129	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
130	Measurement of the diffractive structure function $F_2^D(4)$ at HERA. European Physical Journal C, 1998, 1, 81-96.	3.9	63
131	Dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 1, 109-122.	3.9	32
132	Measurement of the diffractive structure function. European Physical Journal C, 1998, 1, 81.	3.9	59
133	Diffraction dijet cross sections in photoproduction at HERA. European Physical Journal C, 1998, 5, 41.	3.9	24
134	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
135	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
136	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
137	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
138	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
139	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
140	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
141	Measurement of the $F_2$ structure function in deep inelastic $e^+p$ scattering using 1994 data from the ZEUS detector at HERA. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 399-424.	1.5	137
142	Study of charged-current 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
143	Study of charged-current $e^+p$ interactions at $Q^2 > 200, [m \text{ GeV}]^2$ with the ZEUS detector at HERA. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 47-64.	1.5	4
144	Measurement of the $F_2$ structure function in deep inelastic $e^+p$ scattering using 1994 data from the ZEUS detector at HERA. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 399-424.	1.5	0

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145	Measurement of elastic $\pi^0$ photoproduction at HERA. Zeitschrift für Physik C-Particles and Fields, 1995, 69, 39-54.	1.5	2
146	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
147	Hadronic energy distributions in deep-inelastic electron-proton scattering. Zeitschrift für Physik C-Particles and Fields, 1993, 59, 231-242.	1.5	22
148	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
149	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
150	V473 Lyr, a modulated, period-doubled Cepheid, and U TrA, a double-mode Cepheid observed by MOST. Monthly Notices of the Royal Astronomical Society, 0, , stw3345.	4.4	5