

Martin Erdmann

List of Publications by Year in descending order

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786
papers

37,346
citations

3325

91
h-index

7718

150
g-index

788
all docs

788
docs citations

788
times ranked

13224
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects. <i>Science</i> , 2007, 318, 938-943.	6.0	647
2	Measurement of the J/ψ meson and b-hadron production cross sections in pp collisions at $\sqrt{s}=1960$ GeV. <i>Physical Review D</i> , 2005, 71, .	1.6	624
3	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV. <i>European Physical Journal C</i> , 2015, 75, 212.	1.4	541
4	Observation of the Narrow State $X(3872)$ in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2004, 93, 072001.	2.9	531
5	Observation of the Suppression of the Flux of Cosmic Rays above 4×10^{19} eV. <i>Physical Review Letters</i> , 2008, 101, 061101.	2.9	500
6	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016, 76, 155.	1.4	499
7	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.6	497
8	Measurement of the Depth of Maximum of Extensive Air Showers above 10^{18} eV. <i>Physical Review Letters</i> , 2010, 104, 091101.	2.9	429
9	Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	369
10	Measurement of the energy spectrum of cosmic rays above 1018 eV using the Pierre Auger Observatory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 685, 239-246.	1.5	357
11	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 421.	1.4	355
12	Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , 2014, 74, 3076.	1.4	342
13	The H1 detector at HERA. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997, 386, 310-347.	0.7	321
14	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	320
15	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 235.	1.4	320
16	Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. <i>Astroparticle Physics</i> , 2008, 29, 188-204.	1.9	305
17	The fluorescence detector of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 620, 227-251.	0.7	275
18	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above 10 ¹⁷ eV. <i>Physical Review D</i> , 2014, 90, .	1.6	266

#	ARTICLE	IF	CITATIONS
19	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above 8×10^{18} eV. <i>Science</i> , 2017, 357, 1266-1270.	6.0	261
20	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. <i>European Physical Journal C</i> , 2014, 74, 3036.	1.4	241
21	Measurement of the proton structure function $F_2(x, Q^2)$ in the low-x region at HERA. <i>Nuclear Physics B</i> , 1993, 407, 515-535.	0.9	235
22	Measurement of the $\tilde{t}\tilde{t}^*$ production cross section in pp collisions at $\sqrt{s} = 1.96$ TeV using lepton+jets events with secondary vertex tagging. <i>Physical Review D</i> , 2005, 71, .	1.6	231
23	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.6	230
24	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. II. Composition implications. <i>Physical Review D</i> , 2014, 90, .	1.6	213
25	Measurement of the Proton-Air Cross Section at $\sqrt{s} = 57$ TeV. <i>Physical Review Letters</i> , 2013, 110, 062002.	2.9	212
26	The tracking, calorimeter and muon detectors of the H1 experiment at HERA. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997, 386, 348-396.	0.7	203
27	Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	200
28	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , 2020, 80, 4.	1.4	198
29	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 542.	1.4	191
30	Combined fit of spectrum and composition data as measured by the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 038-038.	1.9	191
31	A measurement and QCD analysis of the proton structure function $F_2(x, Q^2)$ at HERA. <i>Nuclear Physics B</i> , 1996, 470, 3-38.	0.9	184
32	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	181
33	CRPropa 3: a public astrophysical simulation framework for propagating extraterrestrial ultra-high energy particles. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 038-038.	1.9	181
34	Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2014, 74, 3149.	1.4	179
35	Proton and deuteron structure functions in muon scattering at 470 GeV. <i>Physical Review D</i> , 1996, 54, 3006-3056.	1.6	178
36			

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37	Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. <i>European Physical Journal C</i> , 2014, 74, 2980.	1.4	171
38	First measurement of the deep-inelastic structure of proton diffraction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 348, 681-696.	1.5	170
39	Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	169
40	Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	168
41	Deep inelastic scattering events with a large rapidity gap at HERA. <i>Nuclear Physics B</i> , 1994, 429, 477-502.	0.9	166
42	A measurement of the proton structure function $F_2(x, Q^2)$. <i>Nuclear Physics B</i> , 1995, 439, 471-502.	0.9	166
43	An Indication of Anisotropy in Arrival Directions of Ultra-high-energy Cosmic Rays through Comparison to the Flux Pattern of Extragalactic Gamma-Ray Sources. <i>Astrophysical Journal Letters</i> , 2018, 853, L29.	3.0	165
44	Upper limit on the cosmic-ray photon flux above 1019eV using the surface detector of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2008, 29, 243-256.	1.9	161
45	Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	158
46	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s} = 0.9, 2.76, \text{ and } 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	154
47	Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2016, 117, 192001.	2.9	154
48	Elastic photoproduction of J/ψ and ρ mesons at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 483, 23-35.	1.5	153
49	Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events. <i>Physical Review D</i> , 2015, 91, .	1.6	152
50	Trigger and aperture of the surface detector array of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 613, 29-39.	0.7	151
51	Measurement of Prompt Charm Meson Production Cross Sections in pp Collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2003, 91, 241804.	2.9	149
52	Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\hat{\mu}_{\pm}$ and b-quark multiplicity in pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2013, 73, 2568.	1.4	147
53	SEARCHES FOR ANISOTROPIES IN THE ARRIVAL DIRECTIONS OF THE HIGHEST ENERGY COSMIC RAYS DETECTED BY THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal</i> , 2015, 804, 15.	1.6	146
54	Measurement of deeply virtual Compton scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 517, 47-58.	1.5	144

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55	Upper Limit on the Diffuse Flux of Ultrahigh Energy Tau Neutrinos from the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2008, 100, 211101.	2.9	141
56	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	139
57	Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2011, 71, 1.	1.4	135
58	Observation of events at very high Q^2 in ep collisions at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997, 74, 191-205.	1.5	132
59	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	129
60	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2013, 73, 1.	1.4	125
61	Improved limit to the diffuse flux of ultrahigh energy neutrinos from the Pierre Auger Observatory. <i>Physical Review D</i> , 2015, 91, .	1.6	125
62	Evidence for the 125 GeV Higgs boson decaying to a pair of τ , leptons. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	123
63	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 8$ TeV in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , 2021, 81, 800.	1.4	123
64	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	122
65	Evidence for a narrow anti-charmed baryon state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 588, 17-28.	1.5	120
66	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , 2010, 70, 1165-1192.	1.4	120
67	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	118
68	Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2009, 31, 399-406.	1.9	117
69	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	117
70	Saturation of shadowing at very low Bjorken x. <i>Physical Review Letters</i> , 1992, 68, 3266-3269.	2.9	116
71	First Measurements of Inclusive W and Z Cross Sections from Run II of the Fermilab Tevatron Collider. <i>Physical Review Letters</i> , 2005, 94, 091803.	2.9	111
72	Shadowing in inelastic scattering of muons on carbon, calcium and lead at low x Bj. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995, 67, 403-410.	1.5	108

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73	Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36, \text{ and } 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	106
74	On the rise of the proton structure function F2 towards low x. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 520, 183-190.	1.5	104
75	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{\text{NN}}}=5.02 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	103
76	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	101
77	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1.	1.6	100
78	Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger Observatory. Physical Review D, 2009, 79, .	1.6	99
79	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	99
80	Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 710.	1.4	98
81	Measurement of the cosmic-ray energy spectrum above $2.5 \times 10^{18} \text{ eV}$ using the Pierre Auger Observatory. Physical Review D, 2020, 102, .	1.6	98
82	Measurement of D_s^{\pm} meson production and F2c in deep-inelastic scattering at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 528, 199-214.	1.5	97
83	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7 \text{ TeV}$ and comparison with $\sqrt{s} = 0.9 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	97
84	A measurement of the proton structure function F2(x, Q2) at low x and low Q2 at HERA. Nuclear Physics B, 1997, 497, 3-28.	0.9	95
85	Antennas for the detection of radio emission pulses from cosmic-ray induced air showers at the Pierre Auger Observatory. Journal of Instrumentation, 2012, 7, P10011-P10011.	0.5	95
86	Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s}=7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	1.6	95
87	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8, \text{ and } 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	95
88	Machine Learning in High Energy Physics Community White Paper. Journal of Physics: Conference Series, 2018, 1085, 022008.	0.3	94
89	Search for Doubly Charged Higgs Bosons Decaying to Dileptons in pp Collisions at $\sqrt{s}=1.96 \text{ TeV}$. Physical Review Letters, 2004, 93, 221802.	2.9	92
90	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.	1.6	92

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91	Measurement of the Radiation Energy in the Radio Signal of Extensive Air Showers as a Universal Estimator of Cosmic-Ray Energy. <i>Physical Review Letters</i> , 2016, 116, 241101.	2.9	91
92	An upper limit to the photon fraction in cosmic rays above 1019eV from the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2007, 27, 155-168.	1.9	90
93	Elastic and inelastic photoproduction of J/ψ mesons at HERA. <i>Nuclear Physics B</i> , 1996, 472, 3-31.	0.9	89
94	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 147.	1.4	88
95	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	86
96	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	85
97	Probing the radio emission from air showers with polarization measurements. <i>Physical Review D</i> , 2014, 89, .	1.6	85
98	Study of double parton scattering using $W + 2$ -jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	85
99	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	85
100	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2014, 74, 2847.	1.4	85
101	Total photoproduction cross section measurement at HERA energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 299, 374-384.	1.5	84
102	Evidence for a mixed mass composition at the ankle in the cosmic-ray spectrum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 762, 288-295.	1.5	84
103	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020, 15, P10017-P10017.	0.5	84
104	Measurement of open beauty production at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 467, 156-164.	1.5	83
105	Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	83
106	Measurement of the differential cross section and charge asymmetry for inclusive $\text{p} \rightarrow \text{W}^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2016, 76, 469.	1.4	83
107	Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV. <i>European Physical Journal C</i> , 2018, 78, 509.	1.4	83
108	Measurement of Bottom-Quark Hadron Masses in Exclusive J/ψ Decays with the CDF Detector. <i>Physical Review Letters</i> , 2006, 96, 202001.	2.9	82

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109	Inferences on mass composition and tests of hadronic interactions from 0.3 to 100 EeV using the water-Cherenkov detectors of the Pierre Auger Observatory. <i>Physical Review D</i> , 2017, 96, .	1.6	82
110	Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>European Physical Journal C</i> , 2017, 77, 252.	1.4	82
111	Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	82
112	J/ψ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	81
113	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	81
114	Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	81
115	Measurement of meson cross sections at HERA and determination of the gluon density in the proton using NLO QCD. <i>Nuclear Physics B</i> , 1999, 545, 21-44.	0.9	80
116	Energy estimation of cosmic rays with the Engineering Radio Array of the Pierre Auger Observatory. <i>Physical Review D</i> , 2016, 93, .	1.6	80
117	Measurement of charged particle transverse momentum spectra in deep inelastic scattering. <i>Nuclear Physics B</i> , 1997, 485, 3-22.	0.9	79
118	Features of the Energy Spectrum of Cosmic Rays above 2.5×10^{18} eV Using the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2020, 125, 121106.	2.9	79
119	Hard scattering in $\hat{p}p$ interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 297, 205-213.	1.5	78
120	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	78
121	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2020, 80, 75.	1.4	78
122	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	77
123	Large-scale Cosmic-Ray Anisotropies above 4 EeV Measured by the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2018, 868, 4.	1.6	77
124	Determination of the longitudinal proton structure function $F_L(x, Q^2)$ at low x. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 393, 452-464.	1.5	76
125	Study of jet shapes in inclusive jet production in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review D</i> , 2005, 71, .	1.6	76
126	Precise Simulation of Electromagnetic Calorimeter Showers Using a Wasserstein Generative Adversarial Network. <i>Computing and Software for Big Science</i> , 2019, 3, 1.	1.3	76

#	ARTICLE	IF	CITATIONS
127	Study of exclusive two-photon production of $W+W\hat{a}^{\sim}$ in pp collisions at $\sqrt{s}=7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	1.6	75
128	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ s NN = 5.02 TeV. European Physical Journal C, 2014, 74, 1.	1.4	75
129	Measurement of the $\sigma(\mathrm{W}^+\mathrm{W}^-)$ $W+W^-$ cross section in pp collisions at $\sqrt{s}=8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	1.4	74
130	Search for first harmonic modulation in the right ascension distribution of cosmic rays detected at the Pierre Auger Observatory. Astroparticle Physics, 2011, 34, 627-639.	1.9	73
131	Measurement of the $X(3872)$ production cross section via decays to $J/\psi\epsilon + \bar{\psi}\hat{a}^{\sim}$ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
132	Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251.	1.4	73
133	Search for additional neutral MSSM Higgs bosons in the \bar{t}, \bar{t} , final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	73
134	Measurement of Nuclear Transparencies from Exclusive ρ Meson Production in Muon-Nucleus Scattering at 470 GeV. Physical Review Letters, 1995, 74, 1525-1529.	2.9	72
135	SEARCHES FOR LARGE-SCALE ANISOTROPY IN THE ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE ENERGY OF 10^{19} eV AT THE PIERRE AUGER OBSERVATORY AND THE TELESCOPE ARRAY. Astrophysical Journal, 2014, 794, 172.	1.6	72
136	Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	70
137	Searches for physics beyond the standard model with the $M_{\mathrm{T}2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 3.	1.4	70
138	A search for leptoquarks, leptogluons and excited leptons in H1 at HERA. Nuclear Physics B, 1993, 396, 3-23.	0.9	69
139	Measurement of the forward-backward charge asymmetry from $W\hat{a}^{\sim}e\hat{a}^{\sim}/2$ production in pp collisions at $\sqrt{s}=1.96$ TeV. Physical Review D, 2005, 71, .	1.6	69
140	Measurement of the $\sigma(\overline{\mathrm{t}}\mathrm{t})$ production cross section in the dilepton channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	69
141	Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth. Physical Review D, 2014, 90, .	1.6	69
142	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	69
143	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	68
144	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	1.4	68

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145	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	68
146	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.	1.4	68
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162	Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	62

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165	Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	61
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243	Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.	1.6	43
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248	A deep learning-based reconstruction of cosmic ray-induced air showers. Astroparticle Physics, 2018, 97, 46-53.	1.9	42
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263	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	40
264	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.	1.4	40
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267	Measurement of the cross section for $t\bar{t}$ production in pp collisions using the kinematics of lepton+jets events. Physical Review D, 2005, 72, .	1.6	39
268	Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	39
269	Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
270	Measurement of the $Z \rightarrow b\bar{b}$ cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39

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272	Measurement of the ZZ production cross section and search for anomalous couplings in $2\hat{a}, "2\hat{a}, "â€²$ final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	39
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280	Measurement of the top-quark mass in $\overline{t}t$ events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	38
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286	Charged particle multiplicities in deep inelastic scattering at HERA. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 573-592.	1.5	37
287	Isolated electrons and muons in events with missing transverse momentum at HERA. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 561, 241-257.	1.5	37
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290	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	37
291	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 236.	1.4	37
292	Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	37
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294	Jets and energy flow in photon-proton collisions at HERA. Zeitschrift für Physik C-Particles and Fields, 1996, 70, 17-30.	1.5	36
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297	Direct measurement of the muonic content of extensive air showers between 2×10^{17} and 2×10^{18} eV at the Pierre Auger Observatory. European Physical Journal C, 2020, 80, 1.	1.4	36
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440	Search for $t\bar{t}\hat{A}^{\pm}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
441	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
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443	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $\tilde{\rho}$, leptons and two jets in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
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555	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
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559	Studies of $\{\mathrm{B}\}^{\ast}_{\{\mathrm{s}\}2}(5840)^0 \mathrm{B} s 2 \hat{a} - (5840) 0$ and $\{\mathrm{B}\}$		
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611	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11
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