

Konrad BernlÄhr

List of Publications by Year in descending order

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40
papers

5,441
citations

218677

26
h-index

302126

39
g-index

40
all docs

40
docs citations

40
times ranked

3737
citing authors

#	ARTICLE	IF	CITATIONS
1	Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. <i>Experimental Astronomy</i> , 2011, 32, 193-316.	3.7	640
2	Observations of the Crab nebula with HESS. <i>Astronomy and Astrophysics</i> , 2006, 457, 899-915.	5.1	603
3	Energy Spectrum of Cosmic-Ray Electrons at TeV Energies. <i>Physical Review Letters</i> , 2008, 101, 261104.	7.8	516
4	Introducing the CTA concept. <i>Astroparticle Physics</i> , 2013, 43, 3-18.	4.3	504
5	High-energy particle acceleration in the shell of a supernova remnant. <i>Nature</i> , 2004, 432, 75-77.	27.8	450
6	Probing the ATIC peak in the cosmic-ray electron spectrum with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2009, 508, 561-564.	5.1	396
7	Primary particle acceleration above 100 TeV in the shell-type supernova remnant RX J1713.7-3946 with deep HESS observations. <i>Astronomy and Astrophysics</i> , 2007, 464, 235-243.	5.1	266
8	A detailed spectral and morphological study of the gamma-ray supernova remnant RX J1713.7-3946 with HESS. <i>Astronomy and Astrophysics</i> , 2006, 449, 223-242.	5.1	258
9	The H.E.S.S. Galactic plane survey. <i>Astronomy and Astrophysics</i> , 2018, 612, A1.	5.1	244
10	Monte Carlo design studies for the Cherenkov Telescope Array. <i>Astroparticle Physics</i> , 2013, 43, 171-188.	4.3	176
11	A very-high-energy component deep in the γ -ray burst afterglow. <i>Nature</i> , 2019, 575, 464-467.	27.8	166
12	First results on the performance of the HEGRA IACT array. <i>Astroparticle Physics</i> , 1997, 8, 1-11.	4.3	152
13	Simulation of imaging atmospheric Cherenkov telescopes with CORSIKA and sim_telarray. <i>Astroparticle Physics</i> , 2008, 30, 149-158.	4.3	150
14	The optical system of the H.E.S.S. imaging atmospheric Cherenkov telescopes. Part I: layout and components of the system. <i>Astroparticle Physics</i> , 2003, 20, 111-128.	4.3	136
15	H.E.S.S. observations of PKS 2155-304. <i>Astronomy and Astrophysics</i> , 2005, 430, 865-875.	5.1	133
16	The trigger system of the H.E.S.S. telescope array. <i>Astroparticle Physics</i> , 2004, 22, 285-296.	4.3	97
17	Revealing x-ray and gamma ray temporal and spectral similarities in the GRB 190829A afterglow. <i>Science</i> , 2021, 372, 1081-1085.	12.6	86
18	Impact of atmospheric parameters on the atmospheric Cherenkov technique. <i>Astroparticle Physics</i> , 2000, 12, 255-268.	4.3	73

#	ARTICLE	IF	CITATIONS
19	The optical system of the H.E.S.S. imaging atmospheric Cherenkov telescopes. Part II: mirror alignment and point spread function. <i>Astroparticle Physics</i> , 2003, 20, 129-143.	4.3	47
20	TeV Gamma-Ray Observations of the Binary Neutron Star Merger GW170817 with H.E.S.S.. <i>Astrophysical Journal Letters</i> , 2017, 850, L22.	8.3	38
21	Test of hadronic interaction models in the forward region with KASCADE event rates. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2001, 27, 1785-1798.	3.6	35
22	First ground-based measurement of atmospheric Cherenkov light from cosmic rays. <i>Physical Review D</i> , 2007, 75, .	4.7	35
23	Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. <i>Astroparticle Physics</i> , 2019, 111, 35-53.	4.3	35
24	Monte Carlo performance studies for the site selection of the Cherenkov Telescope Array. <i>Astroparticle Physics</i> , 2017, 93, 76-85.	4.3	34
25	Imaging very high energy gamma-ray telescopes. <i>Experimental Astronomy</i> , 2009, 25, 173-191.	3.7	32
26	First ground-based measurement of sub-20 GeV to 100 GeV γ -Rays from the Vela pulsar with H.E.S.S. II. <i>Astronomy and Astrophysics</i> , 2018, 620, A66.	5.1	32
27	Cosmic ray proton spectrum determined with the imaging atmospheric Cherenkov technique. <i>Physical Review D</i> , 1999, 59, .	4.7	25
28	TeV Emission of Galactic Plane Sources with HAWC and H.E.S.S.. <i>Astrophysical Journal</i> , 2021, 917, 6.	4.5	15
29	Influence of the geomagnetic field on the IACT detection technique for possible sites of CTA observatories. <i>Astroparticle Physics</i> , 2013, 45, 1-12.	4.3	11
30	The Cosmic Ray Tracking (CRT) detector system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 369, 284-292.	1.6	10
31	Search for Dark Matter Annihilation Signals from Unidentified Fermi-LAT Objects with H.E.S.S.. <i>Astrophysical Journal</i> , 2021, 918, 17.	4.5	10
32	Probing the Magnetic Field in the GW170817 Outflow Using H.E.S.S. Observations. <i>Astrophysical Journal Letters</i> , 2020, 894, L16.	8.3	9
33	Searching for TeV Gamma-Ray Emission from SGR 1935+2154 during Its 2020 X-Ray and Radio Bursting Phase. <i>Astrophysical Journal</i> , 2021, 919, 106.	4.5	6
34	H.E.S.S. Follow-up Observations of Binary Black Hole Coalescence Events during the Second and Third Gravitational-wave Observing Runs of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal</i> , 2021, 923, 109.	4.5	6
35	Muons as a tool for background rejection in imaging atmospheric Cherenkov telescope arrays. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	5
36	Effect of the uncertainty in the hadronic interaction models on the estimation of the sensitivity of the Cherenkov telescope array. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2021, 48, 075201.	3.6	4

#	ARTICLE	IF	CITATIONS
37	Optimizing Cherenkov Photons Generation and Propagation in CORSIKA for CTA Monte Carlo Simulations. Computing and Software for Big Science, 2020, 4, 1.	2.9	3
38	Estimation of the height of the first interaction in gamma-ray showers observed by Cherenkov telescopes. Astroparticle Physics, 2018, 103, 108-114.	4.3	2
39	Performance optimization of the air shower simulation program for the Cherenkov Telescope Array. EPJ Web of Conferences, 2019, 214, 05041.	0.3	1
40	Imaging very high energy gamma-ray telescopes. , 2009, , 171-189.		0