Konrad BernlÃ¶hr

List of Publications by Year
in descending order

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	Effect of the uncertainty in the hadronic interaction models on the estimation of the sensitivity of the Cherenkov telescope array. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 075201.	3.6	4
2	Revealing x-ray and gamma ray temporal and spectral similarities in the GRB 190829A afterglow. Science, 2021, 372, 1081-1085.	12.6	86
3	Search for Dark Matter Annihilation Signals from Unidentified Fermi-LAT Objects with H.E.S.S.. Astrophysical Journal, 2021, 918, 17.	4.5	10
4	TeV Emission of Galactic Plane Sources with HAWC and H.E.S.S.. Astrophysical Journal, 2021, 917, 6.	4.5	15
5	Searching for TeV Gamma-Ray Emission from SGR 1935+2154 during Its 2020 X-Ray and Radio Bursting Phase. Astrophysical Journal, 2021, 919, 106.	4.5	6
6	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. Astrophysical Journal, 2021, 923, 109.	4.5	6
7	Muons as a tool for background rejection in imaging atmospheric Cherenkov telescope arrays. European Physical Journal C, 2021, 81, 1.	3.9	5
8	Optimizing Cherenkov Photons Generation and Propagation in CORSIKA for CTA Monteâ€“Carlo Simulations. Computing and Software for Big Science, 2020, 4, 1.	2.9	3
9	Probing the Magnetic Field in the GW170817 Outflow Using H.E.S.S. Observations. Astrophysical Journal Letters, 2020, 894, L16.	8.3	9
10	Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. Astroparticle Physics, 2019, 111, 35-53.	4.3	35
11	Performance optimization of the air shower simulation program for the Cherenkov Telescope Array. EPJ Web of Conferences, 2019, 214, 05041.	0.3	1
12	A very-high-energy component deep in the Î³-ray burst afterglow. Nature, 2019, 575, 464-467.	27.8	166
13	First ground-based measurement of sub-20 GeV to 100 GeV Î³-Rays from the Vela pulsar with H.E.S.S. II. Astronomy and Astrophysics, 2018, 620, A66.	5.1	32
14	The H.E.S.S. Galactic plane survey. Astronomy and Astrophysics, 2018, 612, A1.	5.1	244
15	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
16	Monte Carlo performance studies for the site selection of the Cherenkov Telescope Array. Astroparticle Physics, 2017, 93, 76-85.	4.3	34
17	TeV Gamma-Ray Observations of the Binary Neutron Star Merger GW170817 with H.E.S.S.. Astrophysical Journal Letters, 2017, 850, L22.	8.3	38
18	Introducing the CTA concept. Astroparticle Physics, 2013, 43, 3-18.	4.3	504

#	Article	IF	Citations
19	Influence of the geomagnetic field on the IACT detection technique for possible sites of CTA observatories. Astroparticle Physics, 2013, 45, 1-12.	4.3	11
20	Monte Carlo design studies for the Cherenkov Telescope Array. Astroparticle Physics, 2013, 43, 171-188.	4.3	176
21	Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. Experimental Astronomy, 2011, 32, 193-316.	3.7	640
22	Imaging very high energy gamma-ray telescopes. Experimental Astronomy, 2009, 25, 173-191.	3.7	32
23	Probing the ATIC peak in the cosmic-ray electron spectrum withÂH.E.S.S.. Astronomy and Astrophysics, 2009, 508, 561-564.	5.1	396
24	Imaging very high energy gamma-ray telescopes. , 2009, , 171-189.		0
25	Simulation of imaging atmospheric Cherenkov telescopes with CORSIKA and sim_telarray. Astroparticle Physics, 2008, 30, 149-158.	4.3	150
26	Energy Spectrum of Cosmic-Ray Electrons at TeV Energies. Physical Review Letters, 2008, 101, 261104.	7.8	516
27	First ground-based measurement of atmospheric Cherenkov light from cosmic rays. Physical Review D, 2007, 75, .	4.7	35
28	Primary particle acceleration above 100 TeV in the shell-type supernova remnant RX J1713.7-3946â€€with deep HESSâ€€observations. Astronomy and Astrophysics, 2007, 464, 235-243.	5.1	266
29	A detailed spectral and morphological study of the gamma-ray supernova remnant RX J1713.7â€“3946 with HESS. Astronomy and Astrophysics, 2006, 449, 223-242.	5.1	258
30	Observations of the Crab nebula with HESS. Astronomy and Astrophysics, 2006, 457, 899-915.	5.1	603
31	H.E.S.S. observations of PKSÂ2155-304. Astronomy and Astrophysics, 2005, 430, 865-875.	5.1	133
32	High-energy particle acceleration in the shell of a supernova remnant. Nature, 2004, 432, 75-77.	27.8	450
33	The trigger system of the H.E.S.S. telescope array. Astroparticle Physics, 2004, 22, 285-296.	4.3	97
34	The optical system of the H.E.S.S. imaging atmospheric Cherenkov telescopes. Part I: layout and components of the system. Astroparticle Physics, 2003, 20, 111-128.	4.3	136
35	The optical system of the H.E.S.S. imaging atmospheric Cherenkov telescopes. Part II: mirror alignment and point spread function. Astroparticle Physics, 2003, 20, 129-143.	4.3	47
36	Test of hadronic interaction models in the forward region with KASCADE event rates. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 1785-1798.	3.6	35

#	ARTICLE	IF	CITATIONS
37	Impact of atmospheric parameters on the atmospheric Cherenkov technique. Astroparticle Physics, 2000, 12, 255-268.	4.3	73
38	Cosmic ray proton spectrum determined with the imaging atmospheric Cherenkov technique. Physical Review D, 1999, 59, .	4.7	25
39	First results on the performance of the HEGRA IACT array. Astroparticle Physics, 1997, 8, 1-11.	4.3	152
40	The Cosmic Ray Tracking (CRT) detector system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 369, 284-292.	1.6	10