Christian Glaser

List of Publications by Year
in descending order

71 papers	3,231 citations	201674 27 h-index	144013 57 g-index
71 all docs	71 docs citations	71 times ranked	2661 citing authors

#	Article	IF	Citations
1	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:msup><mml:mrow><mml:mn>0</mml:mn></mml:mrow><mml:mrow><mml:mn> Physical Review D, 2014, 90, .	4.7	266
2	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above 8 Ã— 10 ¹⁸ eV. Science, 2017, 357, 1266-1270.	12.6	261
3	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. II. Composition implications. Physical Review D, 2014, 90, .	4.7	213
4	IceCube-Gen2: the window to the extreme Universe. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 060501.	3.6	204
5	Combined fit of spectrum and composition data as measured by the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 038-038.	5.4	191
6	An Indication of Anisotropy in Arrival Directions of Ultra-high-energy Cosmic Rays through Comparison to the Flux Pattern of Extragalactic Gamma-Ray Sources[*]. Astrophysical Journal Letters, 2018, 853, L29.	8.3	165
7	Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. Physical Review Letters, 2016, 117, 192001.	7.8	154
8	Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events. Physical Review D, 2015, 91, .	4.7	152
9	SEARCHES FOR ANISOTROPIES IN THE ARRIVAL DIRECTIONS OF THE HIGHEST ENERGY COSMIC RAYS DETECTED BY THE PIERRE AUGER OBSERVATORY. Astrophysical Journal, 2015, 804, 15.	4.5	146
10	Improved limit to the diffuse flux of ultrahigh energy neutrinos from the Pierre Auger Observatory. Physical Review D, 2015, 91, .	4.7	125
11	Measurement of the Radiation Energy in the Radio Signal of Extensive Air Showers as a Universal Estimator of Cosmic-Ray Energy. Physical Review Letters, 2016, 116, 241101.	7.8	91
12	Probing the radio emission from air showers with polarization measurements. Physical Review D, 2014, 89, .	4.7	85
13	Evidence for a mixed mass composition at the â€˜ankleâ€™ in the cosmic-ray spectrum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 288-295.	4.1	84
14	Inferences on mass composition and tests of hadronic interactions from 0.3 to 100ÂEeV using the water-Cherenkov detectors of the Pierre Auger Observatory. Physical Review D, 2017, 96, .	4.7	82
15	Energy estimation of cosmic rays with the Engineering Radio Array of the Pierre Auger Observatory. Physical Review D, 2016, 93, .	4.7	80
16	SEARCHES FOR LARGE-SCALE ANISOTROPY IN THE ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE ENERGY OF 10¹⁹eV AT THE PIERRE AUGER OBSERVATORY AND THE TELESCOPE ARRAY. Astrophysical Journal, 2014, 794, 172.	4.5	72
17	Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth. Physical Review D, 2014, 90, .	4.7	69
18	Design and sensitivity of the Radio Neutrino Observatory in Greenland (RNO-G). Journal of Instrumentation, 2021, 16, P03025.	1.2	52

#	Article	IF	Citations
19	LARGE SCALE DISTRIBUTION OF ULTRA HIGH ENERGY COSMIC RAYS DETECTED AT THE PIERRE AUGER OBSERVATORY WITH ZENITH ANGLES UP TO 80Â°. Astrophysical Journal, 2015, 802, 111.	4.5	49
20	Search for photons with energies above 10¹⁸eV using the hybrid detector of the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 009-009.	5.4	49
21	Simulation of radiation energy release in air showers. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 024-024.	5.4	42
22	Ultrahigh-energy neutrino follow-up of gravitational wave events GW150914 and GW151226 with the Pierre Auger Observatory. Physical Review D, 2016, 94, .	4.7	38
23	NuRadioReco: a reconstruction framework for radio neutrino detectors. European Physical Journal C, 2019, 79, 1.	3.9	33
24	Observation of inclined EeV air showers with the radio detector of the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 026-026.	5.4	30
25	Targeting ultra-high energy neutrinos with the ARIANNA experiment. Advances in Space Research, 2019, 64, 2595-2609.	2.6	30
26	A SEARCH FOR POINT SOURCES OF EeV PHOTONS. Astrophysical Journal, 2014, 789, 160.	4.5	29
27	NuRadioMC: simulating the radio emission of neutrinos from interaction to detector. European Physical Journal C, 2020, 80, 1.	3.9	29
28	Observation of classically `forbidden' electromagnetic wave propagation and implications for neutrino detection.. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 055-055.	5.4	25
29	A search for cosmogenic neutrinos with the ARIANNA test bed using 4.5 years of data. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 053-053.	5.4	23
30	Azimuthal asymmetry in the risetime of the surface detector signals of the Pierre Auger Observatory. Physical Review D, 2016, 93, .	4.7	21
31	A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 837, L25.	8.3	21
32	Calibration of the logarithmic-periodic dipole antenna (LPDA) radio stations at the Pierre Auger Observatory using an octocopter. Journal of Instrumentation, 2017, 12, T10005-T10005.	1.2	21
33	Neutrino vertex reconstruction with in-ice radio detectors using surface reflections and implications for the neutrino energy resolution. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 030-030.	5.4	19
34	Determination of the absolute energy scale of extensive air showers via radio emission: Systematic uncertainty of underlying first-principle calculations. Astroparticle Physics, 2018, 103, 87-93.	4.3	18
35	An analytic description of the radio emission of air showers based on its emission mechanisms. Astroparticle Physics, 2019, 104, 64-77.	4.3	17
36	Probing the angular and polarization reconstruction of the ARIANNA detector at the South Pole. Journal of Instrumentation, 2020, 15, P09039-P09039.	1.2	17

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37	Muon counting using silicon photomultipliers in the AMIGA detector of the Pierre Auger observatory. Journal of Instrumentation, 2017, 12, P03002-P03002.	1.2	16
38	Search for ultrarelativistic magnetic monopoles with the Pierre Auger observatory. Physical Review D, 2016, 94, .	4.7	15
39	Reconstructing the cosmic-ray energy from the radio signal measured in one single station. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 075-075.	5.4	15
40	A TARGETED SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal Letters, 2014, 789, L34.	8.3	14
41	Multi-resolution anisotropy studies of ultrahigh-energy cosmic rays detected at the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 026-026.	5.4	14
42	Signatures of secondary leptons in radio-neutrino detectors in ice. Physical Review D, 2020, 102, .	4.7	14
43	Reconstructing the neutrino energy for in-ice radio detectors. European Physical Journal C, 2022, 82, 1.	3.9	13
44	Search for patterns by combining cosmic-ray energy and arrival directions at the Pierre Auger Observatory. European Physical Journal C, 2015, 75, 269.	3.9	12
45	Search for Multi-flare Neutrino Emissions in 10 yr of IceCube Data from a Catalog of Sources. Astrophysical Journal Letters, 2021, 920, L45.	8.3	12
46	Search for Relativistic Magnetic Monopoles with Eight Years of IceCube Data. Physical Review Letters, 2022, 128, 051101.	7.8	12
47	A Search for Time-dependent Astrophysical Neutrino Emission with IceCube Data from 2012 to 2017. Astrophysical Journal, 2021, 911, 67.	4.5	9
48	Identifying clouds over the Pierre Auger Observatory using infrared satellite data. Astroparticle Physics, 2013, 50-52, 92-101.	4.3	8
49	Energy estimation for cosmic rays measured with the Auger Engineering Radio Array. , 2013, , .		8
50	Impact of atmospheric effects on the energy reconstruction of air showers observed by the surface detectors of the Pierre Auger Observatory. Journal of Instrumentation, 2017, 12, P02006-P02006.	1.2	8
51	An improved trigger for Askaryan radio detectors. Journal of Instrumentation, 2021, 16, T05001.	1.2	8
52	A field study of data analysis exercises in a bachelor physics course using the internet platform VISPA. European Journal of Physics, 2014, 35, 035018.	0.6	7
53	Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. Astroparticle Physics, 2017, 95, 44-56.	4.3	7
54	Origin of atmospheric aerosols at the Pierre Auger Observatory using studies of air mass trajectories in South America. Atmospheric Research, 2014, 149, 120-135.	4.1	6

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55	A Web-Based Development Environment for Collaborative Data Analysis. Journal of Physics: Conference Series, 2014, 523, 012021.	0.4	5
56	Neutrino direction and energy resolution of Askaryan detectors. , 2019, , .		4
57	Simulation of the Radiation Energy Release in Air Showers. EPJ Web of Conferences, 2017, 135, 01016.	0.3	3
58	Improving sensitivity of the ARIANNA detector by rejecting thermal noise with deep learning. Journal of Instrumentation, 2022, 17, P03007.	1.2	3
59	In situ, broadband measurement of the radio frequency attenuation length at Summit Station, Greenland. Journal of Glaciology, 2022, 68, 1234-1242.	2.2	3
60	The VISPA internet platform for outreach, education and scientific research in various experiments. Journal of Physics: Conference Series, 2015, 664, 032031.	0.4	2
61	The VISPA Internet Platform for Students. Nuclear and Particle Physics Proceedings, 2016, 273-275, 2581-2583.	0.5	2
62	Experiment Software and Projects on the Web with VISPA. Journal of Physics: Conference Series, 2017, 898, 072045.	0.4	2
63	Results and Perspectives of the Auger Engineering Radio Array. EPJ Web of Conferences, 2017, 135, 01006.	0.3	2
64	Systematic uncertainty of first-principle calculations of the radiation energy emitted by extensive air showers. EPJ Web of Conferences, 2019, 216, 03008.	0.3	2
65	A Browser-Based Multi-User Working Environment for Physicists. Journal of Physics: Conference Series, 2014, 513, 062034.	0.4	1
66	Measuring the polarization reconstruction resolution of the ARIANNA neutrino detector with cosmic rays. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 022.	5.4	1
67	VISPA: Direct Access and Execution of Data Analyses for Collaborations. Journal of Physics: Conference Series, 2015, 608, 012027.	0.4	0
68	An analytic description of the radio emission of air showers based on its emission mechanisms. EPJ Web of Conferences, 2019, 216, 03001.	0.3	0
69	The Energy Content of Extensive Air Showers in the Radio Frequency Range of 30-80 MHz. , 2016, , .		0
70	Modelling uncertainty of the radiation energy emitted by extensive air showers. , 2017, , .		0
71	Framework and tools for the simulation and analysis of the radio emission from air showers at IceCube. Journal of Instrumentation, 2022, 17, P06026.	1.2	0