

Christian Glaser

List of Publications by Year in descending order

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Version: 2024-02-01

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	Search for Relativistic Magnetic Monopoles with Eight Years of IceCube Data. <i>Physical Review Letters</i> , 2022, 128, 051101.	7.8	12
2	Reconstructing the neutrino energy for in-ice radio detectors. <i>European Physical Journal C</i> , 2022, 82, 1.	3.9	13
3	Improving sensitivity of the ARIANNA detector by rejecting thermal noise with deep learning. <i>Journal of Instrumentation</i> , 2022, 17, P03007.	1.2	3
4	Measuring the polarization reconstruction resolution of the ARIANNA neutrino detector with cosmic rays. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 022.	5.4	1
5	<i>In situ</i> , broadband measurement of the radio frequency attenuation length at Summit Station, Greenland. <i>Journal of Glaciology</i> , 2022, 68, 1234-1242.	2.2	3
6	Framework and tools for the simulation and analysis of the radio emission from air showers at IceCube. <i>Journal of Instrumentation</i> , 2022, 17, P06026.	1.2	0
7	Design and sensitivity of the Radio Neutrino Observatory in Greenland (RNO-G). <i>Journal of Instrumentation</i> , 2021, 16, P03025.	1.2	52
8	IceCube-Gen2: the window to the extreme Universe. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2021, 48, 060501.	3.6	204
9	A Search for Time-dependent Astrophysical Neutrino Emission with IceCube Data from 2012 to 2017. <i>Astrophysical Journal</i> , 2021, 911, 67.	4.5	9
10	An improved trigger for Askaryan radio detectors. <i>Journal of Instrumentation</i> , 2021, 16, T05001.	1.2	8
11	Search for Multi-flare Neutrino Emissions in 10 yr of IceCube Data from a Catalog of Sources. <i>Astrophysical Journal Letters</i> , 2021, 920, L45.	8.3	12
12	Probing the angular and polarization reconstruction of the ARIANNA detector at the South Pole. <i>Journal of Instrumentation</i> , 2020, 15, P09039-P09039.	1.2	17
13	Signatures of secondary leptons in radio-neutrino detectors in ice. <i>Physical Review D</i> , 2020, 102, .	4.7	14
14	A search for cosmogenic neutrinos with the ARIANNA test bed using 4.5 years of data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 053-053.	5.4	23
15	NuRadioMC: simulating the radio emission of neutrinos from interaction to detector. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	29
16	An analytic description of the radio emission of air showers based on its emission mechanisms. <i>EPJ Web of Conferences</i> , 2019, 216, 03001.	0.3	0
17	Systematic uncertainty of first-principle calculations of the radiation energy emitted by extensive air showers. <i>EPJ Web of Conferences</i> , 2019, 216, 03008.	0.3	2
18	Targeting ultra-high energy neutrinos with the ARIANNA experiment. <i>Advances in Space Research</i> , 2019, 64, 2595-2609.	2.6	30

#	ARTICLE	IF	CITATIONS
19	NuRadioReco: a reconstruction framework for radio neutrino detectors. European Physical Journal C, 2019, 79, 1.	3.9	33
20	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
21	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
22	An analytic description of the radio emission of air showers based on its emission mechanisms. Astroparticle Physics, 2019, 104, 64-77.	4.3	17
23	Neutrino direction and energy resolution of Askaryan detectors. , 2019, , .		4
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	Muon counting using silicon photomultipliers in the AMIGA detector of the Pierre Auger observatory. Journal of Instrumentation, 2017, 12, P03002-P03002.	1.2	16
32	Search for photons with energies above 10^{18} eV using the hybrid detector of the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 009-009.	5.4	49
33	A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 837, L25.	8.3	21
34	Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. Astroparticle Physics, 2017, 95, 44-56.	4.3	7
35	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above 8×10^{18} eV. Science, 2017, 357, 1266-1270.	12.6	261
36	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. Physical Review D, 2017, 96, .	4.7	82

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37	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
38	Experiment Software and Projects on the Web with VISPA. Journal of Physics: Conference Series, 2017, 898, 072045.	0.4	2
39	Results and Perspectives of the Auger Engineering Radio Array. EPJ Web of Conferences, 2017, 135, 01006.	0.3	2
40	Simulation of the Radiation Energy Release in Air Showers. EPJ Web of Conferences, 2017, 135, 01016.	0.3	3
41	Modelling uncertainty of the radiation energy emitted by extensive air showers. , 2017, , .		0
42	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
43	Simulation of radiation energy release in air showers. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 024-024.	5.4	42
44	The VISPA Internet Platform for Students. Nuclear and Particle Physics Proceedings, 2016, 273-275, 2581-2583.	0.5	2
45	Evidence for a mixed mass composition at the $\tilde{\text{ankle}}$ ™ in the cosmic-ray spectrum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 288-295.	4.1	84
46	Search for ultrarelativistic magnetic monopoles with the Pierre Auger observatory. Physical Review D, 2016, 94, .	4.7	15
47	Azimuthal asymmetry in the risetime of the surface detector signals of the Pierre Auger Observatory. Physical Review D, 2016, 93, .	4.7	21
48	Energy estimation of cosmic rays with the Engineering Radio Array of the Pierre Auger Observatory. Physical Review D, 2016, 93, .	4.7	80
49	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
50	Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. Physical Review Letters, 2016, 117, 192001.	7.8	154
51	The Energy Content of Extensive Air Showers in the Radio Frequency Range of 30-80 MHz. , 2016, , .		0
52	VISPA: Direct Access and Execution of Data Analyses for Collaborations. Journal of Physics: Conference Series, 2015, 608, 012027.	0.4	0
53	The VISPA internet platform for outreach, education and scientific research in various experiments. Journal of Physics: Conference Series, 2015, 664, 032031.	0.4	2
54	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

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55	Improved limit to the diffuse flux of ultrahigh energy neutrinos from the Pierre Auger Observatory. Physical Review D, 2015, 91, .	4.7	125
56	Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events. Physical Review D, 2015, 91, .	4.7	152
57	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
58	LARGE SCALE DISTRIBUTION OF ULTRA HIGH ENERGY COSMIC RAYS DETECTED AT THE PIERRE AUGER OBSERVATORY WITH ZENITH ANGLES UP TO 80°. Astrophysical Journal, 2015, 802, 111.	4.5	49
59	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above $1 < 10^{19} < \text{eV}$. Physical Review D, 2014, 90, .	4.7	266
60	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. II. Composition implications. Physical Review D, 2014, 90, .	4.7	213
61	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
62	SEARCHES FOR LARGE-SCALE ANISOTROPY IN THE ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE ENERGY OF $10^{19} < \text{eV}$ AT THE PIERRE AUGER OBSERVATORY AND THE TELESCOPE ARRAY. Astrophysical Journal, 2014, 794, 172.	4.5	72
63	A SEARCH FOR POINT SOURCES OF EeV PHOTONS. Astrophysical Journal, 2014, 789, 160.	4.5	29
64	Probing the radio emission from air showers with polarization measurements. Physical Review D, 2014, 89, .	4.7	85
65	Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth. Physical Review D, 2014, 90, .	4.7	69
66	A TARGETED SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal Letters, 2014, 789, L34.	8.3	14
67	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
68	A Browser-Based Multi-User Working Environment for Physicists. Journal of Physics: Conference Series, 2014, 513, 062034.	0.4	1
69	A Web-Based Development Environment for Collaborative Data Analysis. Journal of Physics: Conference Series, 2014, 523, 012021.	0.4	5
70	Identifying clouds over the Pierre Auger Observatory using infrared satellite data. Astroparticle Physics, 2013, 50-52, 92-101.	4.3	8
71	Energy estimation for cosmic rays measured with the Auger Engineering Radio Array. , 2013, , .		8