

Mario Buscemi

List of Publications by Year in descending order

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86
papers

7,096
citations

117625

34
h-index

56724

83
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88
all docs

88
docs citations

88
times ranked

9369
citing authors

#	ARTICLE	IF	CITATIONS
19	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.	7.8	79
20	Large-scale Cosmic-Ray Anisotropies above 4 EeV Measured by the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2018, 868, 4.	4.5	77
21	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. <i>Astrophysical Journal</i> , 2014, 794, 172.	4.5	72
22	Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth. <i>Physical Review D</i> , 2014, 90, .	4.7	69
23	Probing the origin of ultra-high-energy cosmic rays with neutrinos in the EeV energy range using the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 022-022.	5.4	64
24	Reconstruction of inclined air showers detected with the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 019-019.	5.4	49
25	LARGE SCALE DISTRIBUTION OF ULTRA HIGH ENERGY COSMIC RAYS DETECTED AT THE PIERRE AUGER OBSERVATORY WITH ZENITH ANGLES UP TO 80° . <i>Astrophysical Journal</i> , 2015, 802, 111.	4.5	49
26	Search for photons with energies above 10^{18} eV using the hybrid detector of the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 009-009.	5.4	49
27	The energy spectrum of cosmic rays beyond the turn-down around 10^{17} eV as measured with the surface detector of the Pierre Auger Observatory. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	44
28	Cosmic-Ray Anisotropies in Right Ascension Measured by the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2020, 891, 142.	4.5	39
29	Ultrahigh-energy neutrino follow-up of gravitational wave events GW150914 and GW151226 with the Pierre Auger Observatory. <i>Physical Review D</i> , 2016, 94, .	4.7	38
30	Prototype muon detectors for the AMIGA component of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2016, 11, P02012-P02012.	1.2	38
31	Direct measurement of the muonic content of extensive air showers between 2×10^{17} and 2×10^{18} eV at the Pierre Auger Observatory. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	36
32	Bounds on the density of sources of ultra-high energy cosmic rays from the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 009-009.	5.4	34
33	Optimization of the JUNO liquid scintillator composition using a Daya Bay antineutrino detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 988, 164823.	1.6	34
34	Measurement of the Fluctuations in the Number of Muons in Extensive Air Showers with the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2021, 126, 152002.	7.8	34
35	Search for correlations between the arrival directions of IceCube neutrino events and ultrahigh-energy cosmic rays detected by the Pierre Auger Observatory and the Telescope Array. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 037-037.	5.4	31
36	Observation of inclined EeV air showers with the radio detector of the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 026-026.	5.4	30

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37	A SEARCH FOR POINT SOURCES OF EeV PHOTONS. <i>Astrophysical Journal</i> , 2014, 789, 160.	4.5	29
38	Interpretation of the depths of maximum of extensive air showers measured by the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 026-026.	5.4	27
39	Feasibility and physics potential of detecting $\langle \sup \rangle 8 \langle /sup \rangle B$ solar neutrinos at JUNO *. <i>Chinese Physics C</i> , 2021, 45, 023004.	3.7	26
40	Results of a self-triggered prototype system for radio-detection of extensive air showers at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2012, 7, P11023-P11023.	1.2	24
41	Techniques for measuring aerosol attenuation using the Central Laser Facility at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2013, 8, P04009-P04009.	1.2	24
42	Azimuthal asymmetry in the risetime of the surface detector signals of the Pierre Auger Observatory. <i>Physical Review D</i> , 2016, 93, .	4.7	21
43	A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017, 837, L25.	8.3	21
44	Calibration of the logarithmic-periodic dipole antenna (LPDA) radio stations at the Pierre Auger Observatory using an octocopter. <i>Journal of Instrumentation</i> , 2017, 12, T10005-T10005.	1.2	21
45	A Search for Photons with Energies Above $2 \text{ \AA} - 10 \langle \sup \rangle 17 \langle /sup \rangle \text{ eV}$ Using Hybrid Data from the Low-Energy Extensions of the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2022, 933, 125.	4.5	21
46	Measurement of the cosmic ray spectrum above $4 \text{ \AA} - 10 \langle \sup \rangle 18 \langle /sup \rangle \text{ eV}$ using inclined events detected with the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 049-049.	5.4	20
47	Nanosecond-level time synchronization of autonomous radio detector stations for extensive air showers. <i>Journal of Instrumentation</i> , 2016, 11, P01018-P01018.	1.2	20
48	Data-driven estimation of the invisible energy of cosmic ray showers with the Pierre Auger Observatory. <i>Physical Review D</i> , 2019, 100, .	4.7	20
49	Reconstruction of events recorded with the surface detector of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2020, 15, P10021-P10021.	1.2	20
50	Limits on point-like sources of ultra-high-energy neutrinos with the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 004-004.	5.4	18
51	Distillation and stripping pilot plants for the JUNO neutrino detector: Design, operations and reliability. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 925, 6-17.	1.6	17
52	Muon counting using silicon photomultipliers in the AMIGA detector of the Pierre Auger observatory. <i>Journal of Instrumentation</i> , 2017, 12, P03002-P03002.	1.2	16
53	GIGJ: A Crustal Gravity Model of the Guangdong Province for Predicting the Geoneutrino Signal at the JUNO Experiment. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4231-4249.	3.4	16
54	Deep-learning based reconstruction of the shower maximum X_{max} using the water-Cherenkov detectors of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P07019.	1.2	16

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55	Search for ultrarelativistic magnetic monopoles with the Pierre Auger observatory. <i>Physical Review D</i> , 2016, 94, .	4.7	15
56	Nanoseconds Timing System Based on IEEE 1588 FPGA Implementation. <i>IEEE Transactions on Nuclear Science</i> , 2019, 66, 1151-1158.	2.0	15
57	A TARGETED SEARCH FOR POINT SOURCES OF EeV NEUTRONS. <i>Astrophysical Journal Letters</i> , 2014, 789, L34.	8.3	14
58	Multi-resolution anisotropy studies of ultrahigh-energy cosmic rays detected at the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 026-026.	5.4	14
59	Design, upgrade and characterization of the silicon photomultiplier front-end for the AMIGA detector at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P01026-P01026.	1.2	13
60	A Search for Ultra-high-energy Neutrinos from TXS 0506+056 Using the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2020, 902, 105.	4.5	13
61	Search for patterns by combining cosmic-ray energy and arrival directions at the Pierre Auger Observatory. <i>European Physical Journal C</i> , 2015, 75, 269.	3.9	12
62	Extraction of the muon signals recorded with the surface detector of the Pierre Auger Observatory using recurrent neural networks. <i>Journal of Instrumentation</i> , 2021, 16, P07016.	1.2	11
63	JUNO sensitivity to low energy atmospheric neutrino spectra. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	11
64	Measurement of the average shape of longitudinal profiles of cosmic-ray air showers at the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 018-018.	5.4	10
65	Search for magnetically-induced signatures in the arrival directions of ultra-high-energy cosmic rays measured at the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 017-017.	5.4	10
66	A 3â€Year Sample of Almost 1,600 Elves Recorded Above South America by the Pierre Auger Cosmicâ€Ray Observatory. <i>Earth and Space Science</i> , 2020, 7, e2019EA000582.	2.6	9
67	Identifying clouds over the Pierre Auger Observatory using infrared satellite data. <i>Astroparticle Physics</i> , 2013, 50-52, 92-101.	4.3	8
68	Impact of atmospheric effects on the energy reconstruction of air showers observed by the surface detectors of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2017, 12, P02006-P02006.	1.2	8
69	FARCOS, a new array for femtoscopy and correlation spectroscopy. <i>EPJ Web of Conferences</i> , 2012, 31, 00035.	0.3	7
70	Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2017, 95, 44-56.	4.3	7
71	Origin of atmospheric aerosols at the Pierre Auger Observatory using studies of air mass trajectories in South America. <i>Atmospheric Research</i> , 2014, 149, 120-135.	4.1	6
72	Studies on the response of a water-Cherenkov detector of the Pierre Auger Observatory to atmospheric muons using an RPC hodoscope. <i>Journal of Instrumentation</i> , 2020, 15, P09002-P09002.	1.2	5

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73	Calibration of the underground muon detector of the Pierre Auger Observatory. Journal of Instrumentation, 2021, 16, P04003.	1.2	5
74	Testing effects of Lorentz invariance violation in the propagation of astroparticles with the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 023.	5.4	5
75	Charge reconstruction in large-area photomultipliers. Journal of Instrumentation, 2018, 13, P02008-P02008.	1.2	3
76	A facility to validate photomultipliers for the upgrade of the Pierre Auger Observatory.. Journal of Instrumentation, 2020, 15, P07011-P07011.	1.2	3
77	Design and implementation of the AMIGA embedded system for data acquisition. Journal of Instrumentation, 2021, 16, T07008.	1.2	3
78	The Pierre Auger Observatory status and latest results. EPJ Web of Conferences, 2017, 136, 02017.	0.3	2
79	Emission of fragments in Ca+Ca reactions at 25 MeV/nucleon. Journal of Physics: Conference Series, 2013, 420, 012094.	0.4	1
80	ARCADE: Description of the project and setup of the Lidar/AMT system. EPJ Web of Conferences, 2015, 89, 03010.	0.3	1
81	A laser-based system for a fast and accurate measurement of gain and linearity of photomultipliers. Journal of Instrumentation, 2018, 13, T01007-T01007.	1.2	1
82	Use of fragmentation beams at LNS with CHIMERA detector. EPJ Web of Conferences, 2012, 31, 00036.	0.3	0
83	N/Z effects on $^{40,48}\text{Ca}+^{40,48}\text{Ca}$ reactions at 25 MeV/nucleon. EPJ Web of Conferences, 2012, 31, 00016.	0.3	0
84	Exploiting the radio signal from air showers: the AERA progress. EPJ Web of Conferences, 2017, 136, 02013.	0.3	0
85	Astrophysical interpretation of Pierre Auger Observatory measurements of the UHECR energy spectrum and mass composition. EPJ Web of Conferences, 2017, 136, 02002.	0.3	0
86	The Pierre Auger Observatory: latest results and future perspectives. EPJ Web of Conferences, 2018, 182, 02023.	0.3	0