

# Jakub Jurysek

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

4,374  
citations

394421

19  
h-index

182427

51  
g-index

55  
all docs

55  
docs citations

55  
times ranked

8612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Testing effects of Lorentz invariance violation in the propagation of astroparticles with the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 023.	5.4	5
2	Sensitivity of the Cherenkov Telescope Array to a dark matter signal from the Galactic centre. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 057-057.	5.4	46
3	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
4	Sensitivity of the Cherenkov Telescope Array for probing cosmology and fundamental physics with gamma-ray propagation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 048-048.	5.4	41
5	Calibration of the underground muon detector of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P04003.	1.2	5
6	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
7	The FRAM robotic telescope for atmospheric monitoring at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P06027.	1.2	2
8	A New Method for Aerosol Measurement Using Wide-field Photometry. <i>Astronomical Journal</i> , 2021, 162, 6.	4.7	6
9	Deep-learning based reconstruction of the shower maximum $X_{\text{max}}$ using the water-Cherenkov detectors of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P07019.	1.2	16
10	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
11	Design and implementation of the AMIGA embedded system for data acquisition. <i>Journal of Instrumentation</i> , 2021, 16, T07008.	1.2	3
12	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
13	A Survey of Novae in M83. <i>Astrophysical Journal</i> , 2021, 923, 239.	4.5	3
14	Measurement of the cosmic-ray energy spectrum above $2.5 \times 10^{18}$ eV using the Pierre Auger Observatory. <i>Physical Review D</i> , 2020, 102, .	4.7	98
15	Features of the Energy Spectrum of Cosmic Rays above $2.5 \times 10^{18}$ eV Using the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2020, 125, 121106.	7.8	79
16	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
17	Direct measurement of the muonic content of extensive air showers between $2 \times 10^{17}$ and $2 \times 10^{18}$ eV at the Pierre Auger Observatory. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	36
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	A 3-Year Sample of Almost 1,600 Elves Recorded Above South America by the Pierre Auger Cosmic-Ray Observatory. <i>Earth and Space Science</i> , 2020, 7, e2019EA000582.	2.6	9
21	Cosmic-Ray Anisotropies in Right Ascension Measured by the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2020, 891, 142.	4.5	39
22	Large scale characterization and calibration strategy of a SiPM-based camera for gamma-ray astronomy. <i>Journal of Instrumentation</i> , 2020, 15, P11010-P11010.	1.2	5
23	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
24	Possible companions in low-mass eclipsing binaries: V380 Dra, BX Tri, and V642 Vir. <i>Contributions of the Astronomical Observatory Skalnaté Pleso</i> , 2020, 50, .	0.1	1
25	V348 And and V572 Per: Bright Triple Systems with Eccentric Eclipsing Binaries*. <i>Astronomical Journal</i> , 2019, 158, 95.	4.7	0
26	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
27	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
28	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
29	New developments in aerosol measurements using stellar photometry. <i>EPJ Web of Conferences</i> , 2019, 197, 02007.	0.3	2
30	Evaluation of night-time aerosols measurements and lunar irradiance models in the frame of the first multi-instrument nocturnal intercomparison campaign. <i>Atmospheric Environment</i> , 2019, 202, 190-211.	4.1	20
31	FRAM telescopes and their measurements of aerosol content at the Pierre Auger Observatory and at future sites of the Cherenkov Telescope Array. <i>EPJ Web of Conferences</i> , 2019, 197, 02008.	0.3	7
32	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
33	Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. <i>Astroparticle Physics</i> , 2019, 111, 35-53.	4.3	35
34	The SST-1M project for the Cherenkov Telescope Array. , 2019, , .		2
35	Prototype operations of atmospheric calibration devices for the Cherenkov Telescope Array. , 2019, , .		2
36	An Indication of Anisotropy in Arrival Directions of Ultra-high-energy Cosmic Rays through Comparison to the Flux Pattern of Extragalactic Gamma-Ray Sources <sup>*</sup> . <i>Astrophysical Journal Letters</i> , 2018, 853, L29.	8.3	165

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37	The search for roAp stars: null results and new candidates from Strömgren-Crawford photometry. <i>Research in Astronomy and Astrophysics</i> , 2018, 18, 135.	1.7	5
38	The first study of 54 new eccentric eclipsing binaries in our Galaxy. <i>Astronomy and Astrophysics</i> , 2018, 619, A85.	5.1	7
39	Physical properties of $\gamma$ Lyrae A and its opaque accretion disk. <i>Astronomy and Astrophysics</i> , 2018, 618, A112.	5.1	11
40	Large-scale Cosmic-Ray Anisotropies above 4 EeV Measured by the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2018, 868, 4.	4.5	77
41	New inclination changing eclipsing binaries in the Magellanic Clouds. <i>Astronomy and Astrophysics</i> , 2018, 609, A46.	5.1	13
42	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
43	Improved model of the triple system V746 Cassiopeiae that has a bipolar magnetic field associated with the tertiary. <i>Astronomy and Astrophysics</i> , 2018, 609, A5.	5.1	2
44	V773 Cas, QS Aql, AND BR Ind: ECLIPSING BINARIES AS PARTS OF MULTIPLE SYSTEMS*. <i>Astronomical Journal</i> , 2017, 153, 36.	4.7	2
45	Multi-messenger Observations of a Binary Neutron Star Merger <sup>*</sup> . <i>Astrophysical Journal Letters</i> , 2017, 848, L12.	8.3	2,805
46	Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2017, 95, 44-56.	4.3	7
47	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above $8 \times 10^{18}$ eV. <i>Science</i> , 2017, 357, 1266-1270.	12.6	261
48	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. <i>Physical Review D</i> , 2017, 96, .	4.7	82
49	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017, 850, L35.	8.3	135
50	Aerosol Measurements with the FRAM Telescope. <i>EPJ Web of Conferences</i> , 2017, 144, 01011.	0.3	3
51	The first study of the light-travel time effect in massive LMC eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2016, 590, A85.	5.1	13
52	V346 Centauri: Early-type eclipsing binary with apsidal motion and abrupt change of orbital period. <i>Astronomy and Astrophysics</i> , 2016, 591, A129.	5.1	4
53	CONSTRAINING MODELS OF TWIN-PEAK QUASI-PERIODIC OSCILLATIONS WITH REALISTIC NEUTRON STAR EQUATIONS OF STATE. <i>Astrophysical Journal</i> , 2016, 833, 273.	4.5	12
54	TEN KEPLER ECLIPSING BINARIES CONTAINING THE THIRD COMPONENTS. <i>Astronomical Journal</i> , 2015, 149, 197.	4.7	16