

# J Anton Zensus

## List of Publications by Year in descending order

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82  
papers

11,942  
citations

53794

45  
h-index

58581

82  
g-index

82  
all docs

82  
docs citations

82  
times ranked

5026  
citing authors

#	ARTICLE	IF	CITATIONS
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L1.	8.3	2,264
2	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	8.3	897
3	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
5	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	8.3	618
6	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519
7	BLAZARS IN THE <i>FERMI</i> ERA: THE OVRO 40 m TELESCOPE MONITORING PROGRAM. <i>Astrophysical Journal, Supplement Series</i> , 2011, 194, 29.	7.7	394
8	MOJAVE: MONITORING OF JETS IN ACTIVE GALACTIC NUCLEI WITH VLBA EXPERIMENTS. VI. KINEMATICS ANALYSIS OF A COMPLETE SAMPLE OF BLAZAR JETS. <i>Astronomical Journal</i> , 2009, 138, 1874-1892.	4.7	388
9	Detection and imaging of atmospheric radio flashes from cosmic ray air showers. <i>Nature</i> , 2005, 435, 313-316.	27.8	297
10	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	8.3	297
11	MOJAVE: MONITORING OF JETS IN ACTIVE GALACTIC NUCLEI WITH VLBA EXPERIMENTS. V. MULTI-EPOCH VLBA IMAGES. <i>Astronomical Journal</i> , 2009, 137, 3718-3729.	4.7	296
12	Sub-Milliarcsecond Imaging of Quasars and Active Galactic Nuclei. IV. Fine-Scale Structure. <i>Astronomical Journal</i> , 2005, 130, 2473-2505.	4.7	285
13	Sub-Milliarcsecond Imaging of Quasars and Active Galactic Nuclei. <i>Astronomical Journal</i> , 1998, 115, 1295-1318.	4.7	282
14	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
15	â€œRadioAstronâ€•A telescope with a size of 300 000 km: Main parameters and first observational results. <i>Astronomy Reports</i> , 2013, 57, 153-194.	0.9	197
16	MOJAVE: Monitoring of Jets in Active galactic nuclei with VLBA Experiments. <i>Astronomy and Astrophysics</i> , 2012, 545, A113.	5.1	182
17	Resolved magnetic-field structure and variability near the event horizon of Sagittarius A*. <i>Science</i> , 2015, 350, 1242-1245.	12.6	176
18	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	7.7	175

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19	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	8.3	142
20	The limb-brightened jet of M87 down to the 7 Schwarzschild radii scale. <i>Astronomy and Astrophysics</i> , 2018, 616, A188.	5.1	128
21	A large light-mass component of cosmic rays at 1017–1017.5 electronvolts from radio observations. <i>Nature</i> , 2016, 531, 70-73.	27.8	116
22	MOJAVE: MONITORING OF JETS IN ACTIVE GALACTIC NUCLEI WITH VLBA EXPERIMENTS. VII. BLAZAR JET ACCELERATION. <i>Astrophysical Journal</i> , 2009, 706, 1253-1268.	4.5	111
23	Linear Polarization Imaging with Very Long Baseline Interferometry at High Frequencies. <i>Astronomical Journal</i> , 1995, 110, 2479.	4.7	109
24	A wide and collimated radio jet in 3C84 on the scale of a few hundred gravitational radii. <i>Nature Astronomy</i> , 2018, 2, 472-477.	10.1	99
25	230 GHz VLBI OBSERVATIONS OF M87: EVENT HORIZON SCALE STRUCTURE DURING AN ENHANCED VERY-HIGH-ENERGY $\gamma$ -RAY STATE IN 2012. <i>Astrophysical Journal</i> , 2015, 807, 150.	4.5	98
26	The twin-jet system in NGC 1052: VLBI-scrutiny of the obscuring torus. <i>Astronomy and Astrophysics</i> , 2004, 426, 481-493.	5.1	82
27	RADIOASTRON OBSERVATIONS OF THE QUASAR 3C273: A CHALLENGE TO THE BRIGHTNESS TEMPERATURE LIMIT. <i>Astrophysical Journal Letters</i> , 2016, 820, L9.	8.3	81
28	The Size, Shape, and Scattering of Sagittarius A* at 86 GHz: First VLBI with ALMA. <i>Astrophysical Journal</i> , 2019, 871, 30.	4.5	81
29	The Parsec-scale jet in quasar 3C 345. <i>Astrophysical Journal</i> , 1995, 443, 35.	4.5	81
30	Catching the radio flare in CTA 102. <i>Astronomy and Astrophysics</i> , 2013, 557, A105.	5.1	79
31	Simultaneous NIR/sub-mm observation of flare emission from Sagittarius A*. <i>Astronomy and Astrophysics</i> , 2008, 492, 337-344.	5.1	69
32	Millimeter to X-ray flares from Sagittarius A*. <i>Astronomy and Astrophysics</i> , 2012, 537, A52.	5.1	67
33	Detection of Intrinsic Source Structure at $\sim 1/3$ Schwarzschild Radii with Millimeter-VLBI Observations of SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2018, 859, 60.	4.5	67
34	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
35	PERSISTENT ASYMMETRIC STRUCTURE OF SAGITTARIUS A* ON EVENT HORIZON SCALES. <i>Astrophysical Journal</i> , 2016, 820, 90.	4.5	65
36	A highly magnetized twin-jet base pinpoints a supermassive black hole. <i>Astronomy and Astrophysics</i> , 2016, 593, A47.	5.1	65

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37	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65
38	Location of $\gamma$ -ray emission and magnetic field strengths in OJ287. <i>Astronomy and Astrophysics</i> , 2017, 597, A80.	5.1	61
39	Relativistic outflow drives $\gamma$ -ray emission in 3C345. <i>Astronomy and Astrophysics</i> , 2012, 537, A70.	5.1	60
40	Spectral Evolution of the Parsec-Scale Jet in the Quasar 3C 345. <i>Astrophysical Journal</i> , 1999, 521, 509-525.	4.5	59
41	Radio observations of active galactic nuclei with mm-VLBI. <i>Astronomy and Astrophysics Review</i> , 2017, 25, 1.	25.5	58
42	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	8.3	56
43	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020, 640, A69.	5.1	54
44	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	4.5	51
45	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
46	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	4.5	44
47	Amplified radio emission from cosmic ray air showers in thunderstorms. <i>Astronomy and Astrophysics</i> , 2007, 467, 385-394.	5.1	43
48	Experimental evidence for the sensitivity of the air-shower radio signal to the longitudinal shower development. <i>Physical Review D</i> , 2012, 85, .	4.7	43
49	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	4.5	43
50	On the calibration of full-polarization 86-GHz global VLBI observations. <i>Astronomy and Astrophysics</i> , 2012, 542, A107.	5.1	38
51	Rapid Variability of Sgr A* across the Electromagnetic Spectrum. <i>Astrophysical Journal</i> , 2021, 917, 73.	4.5	35
52	Spatially resolved origin of millimeter-wave linear polarization in the nuclear region of 3C 84. <i>Astronomy and Astrophysics</i> , 2019, 622, A196.	5.1	29
53	Frequency spectra of cosmic ray air shower radio emission measured with LOPES. <i>Astronomy and Astrophysics</i> , 2008, 488, 807-817.	5.1	27
54	Wisps in the Galactic center: Near-infrared triggered observations of the radio source Sgr A* at 43-GHz. <i>Astronomy and Astrophysics</i> , 2016, 587, A37.	5.1	26

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55	Using evolutionary algorithms to model relativistic jets. <i>Astronomy and Astrophysics</i> , 2019, 629, A4.	5.1	24
56	Probing the innermost regions of AGN jets and their magnetic fields with RadioAstron. <i>Astronomy and Astrophysics</i> , 2017, 604, A111.	5.1	23
57	F-GAMMA: Multi-frequency radio monitoring of Fermi blazars. <i>Astronomy and Astrophysics</i> , 2019, 626, A60.	5.1	21
58	The magnetic field structure in CTA 102 from high-resolution mm-VLBI observations during the flaring state in 2016–2017. <i>Astronomy and Astrophysics</i> , 2019, 622, A158.	5.1	21
59	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
60	The Galactic centre mini-spiral in the mm-regime. <i>Astronomy and Astrophysics</i> , 2012, 538, A127.	5.1	20
61	RadioAstron space VLBI imaging of polarized radio emission in the high-redshift quasar 0642+449 at 1.6 GHz. <i>Astronomy and Astrophysics</i> , 2015, 583, A100.	5.1	20
62	Symmetric Achromatic Variability in Active Galaxies: A Powerful New Gravitational Lensing Probe?. <i>Astrophysical Journal</i> , 2017, 845, 89.	4.5	20
63	The Unanticipated Phenomenology of the Blazar PKS 2131–021: A Unique Supermassive Black Hole Binary Candidate. <i>Astrophysical Journal Letters</i> , 2022, 926, L35.	8.3	20
64	Direction identification in radio images of cosmic-ray air showers detected with LOPES and KASCADE. <i>Astronomy and Astrophysics</i> , 2008, 487, 781-788.	5.1	19
65	Jet-torus connection in radio galaxies. <i>Astronomy and Astrophysics</i> , 2018, 609, A80.	5.1	19
66	Radio emission of highly inclined cosmic ray air showers measured with LOPES. <i>Astronomy and Astrophysics</i> , 2007, 462, 389-395.	5.1	17
67	High-frequency very long baseline interferometry studies of NRAO 530. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 2260-2272.	4.4	16
68	The RadioAstron Dedicated DiFX Distribution. <i>Galaxies</i> , 2016, 4, 55.	3.0	15
69	The science case and challenges of space-borne sub-millimeter interferometry. <i>Acta Astronautica</i> , 2022, 196, 314-333.	3.2	15
70	The Peculiar Light Curve of J1415+1320: A Case Study in Extreme Scattering Events. <i>Astrophysical Journal</i> , 2017, 845, 90.	4.5	14
71	The Relativistic Jet Orientation and Host Galaxy of the Peculiar Blazar PKS 1413+135. <i>Astrophysical Journal</i> , 2021, 907, 61.	4.5	13
72	3 mm GMVA Observations of Total and Polarized Emission from Blazar and Radio Galaxy Core Regions. <i>Galaxies</i> , 2017, 5, 67.	3.0	12

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73	Final results of the LOPES radio interferometer for cosmic-ray air showers. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	12
74	Ambilateral collimation study of the twin-jets in NGC 1052. <i>Astronomy and Astrophysics</i> , 2022, 658, A119.	5.1	11
75	Pinpointing the jet apex of 3C 84. <i>Astronomy and Astrophysics</i> , 2021, 650, L18.	5.1	9
76	Effelsberg Monitoring of a Sample of RadioAstron Blazars: Analysis of Intra-Day Variability. <i>Galaxies</i> , 2018, 6, 49.	3.0	7
77	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
78	Probing the innermost regions of AGN jets and their magnetic fields with RadioAstron. <i>Astronomy and Astrophysics</i> , 2021, 648, A82.	5.1	5
79	Mid-infrared Studies of Dusty Sources in the Galactic Center. <i>Astrophysical Journal</i> , 2022, 929, 178.	4.5	5
80	SIMULATION OF SHOCK-SHOCK INTERACTION IN PARSEC-SCALE JETS. <i>International Journal of Modern Physics Conference Series</i> , 2012, 08, 323-326.	0.7	3
81	Full-Stokes, Multi-Frequency Radio Polarimetry of Fermi Blazars; Monitoring and Modelling. <i>Galaxies</i> , 2017, 5, 81.	3.0	3
82	New Tests of Milli-lensing in the Blazar PKS 1413 + 135. <i>Astrophysical Journal</i> , 2022, 927, 24.	4.5	3