Zhi-Qiang Shen

List of Publications by Year
in descending order

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61 papers	9,158 citations	201674 27 h-index	138484 58 g-index
63 all docs	63 docs citations	63 times ranked	3497 citing authors

#	Article	IF	Citations
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L1.	8.3	2,264
2	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. Astrophysical Journal Letters, 2019, 875, L6.	8.3	897
3	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. Astrophysical Journal Letters, 2019, 875, L5.	8.3	814
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L4.	8.3	806
5	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. Astrophysical Journal Letters, 2019, 875, L2.	8.3	618
6	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. Astrophysical Journal Letters, 2022, 930, L12.	8.3	568
7	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. Astrophysical Journal Letters, 2019, 875, L3.	8.3	519
8	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. Astrophysical Journal Letters, 2021, 910, L13.	8.3	297
9	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. Astrophysical Journal Letters, 2021, 910, L12.	8.3	215
10	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. Astrophysical Journal Letters, 2022, 930, L17.	8.3	215
11	A size of â^¼1â€‰au for the radio source Sgr A* at the centre of the Milky Way. Nature, 2005, 438, 62-64.	27.8	202
12	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. Astrophysical Journal Letters, 2022, 930, L16.	8.3	187
13	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. Astrophysical Journal, Supplement Series, 2019, 243, 26.	7.7	175
14	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. Astrophysical Journal Letters, 2022, 930, L14.	8.3	163
15	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. Astrophysical Journal Letters, 2022, 930, L13.	8.3	142
16	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. Astrophysical Journal Letters, 2022, 930, L15.	8.3	137
17	Intrinsic Size of Sagittarius A*: 72 Schwarzschild Radii. Astrophysical Journal, 1998, 508, L61-L64.	4.5	104
18	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	8.3	67

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19	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. Nature Astronomy, 2021, 5, 1017-1028.	10.1	65
20	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2021, 911, L11.	8.3	56
21	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. Astronomy and Astrophysics, 2020, 640, A69.	5.1	54
22	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. Astrophysical Journal, 2020, 901, 67.	4.5	51
23	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. Astrophysical Journal, 2020, 897, 139.	4.5	47
24	Verification of Radiative Transfer Schemes for the EHT. Astrophysical Journal, 2020, 897, 148.	4.5	44
25	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. Astrophysical Journal, 2021, 912, 35.	4.5	43
26	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2022, 930, L19.	8.3	43
27	SINGLE-PULSE RADIO OBSERVATIONS OF THE GALACTIC CENTER MAGNETAR PSR J1745â€“2900. Astrophysical Journal, 2015, 814, 5.	4.5	37
28	A 6.7 GHz Methanol Maser Survey. II. Low Galactic Latitudes. Astrophysical Journal, Supplement Series, 2019, 241, 18.	7.7	26
29	ATOMS: ALMA three-millimeter observations of massive star-forming regions â€“ III. Catalogues of candidate hot molecular cores and hyper/ultra compact Hâ€‰<scp>ii</scp> regions. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2801-2818.	4.4	23
30	Correcting Gravitational Deformation at the Tianma Radio Telescope. IEEE Transactions on Antennas and Propagation, 2018, 66, 2044-2048.	5.1	21
31	Selective Dynamical Imaging of Interferometric Data. Astrophysical Journal Letters, 2022, 930, L18.	8.3	21
32	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	8.3	20
33	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. Astrophysical Journal Letters, 2022, 930, L20.	8.3	20
34	5.0 GHz TMRT Observations of 71 Pulsars. Astrophysical Journal, 2019, 874, 64.	4.5	19
35	The catalogues and mid-infrared environment of interstellar OH masers. Monthly Notices of the Royal Astronomical Society, 2014, 441, 3137-3147.	4.4	18
36	Investigating the multifrequency pulse profiles of PSRs B0329+54 and B1642â€“03 in an inverse Compton scattering model. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4389-4398.	4.4	14

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37	Simultaneous 13 cm/3 cm Single-pulse Observations of PSR B0329+54. Astrophysical Journal, 2018, 856, 55.	4.5	14
38	An 86 GHz Search for Pulsars in the Galactic Center with the Atacama Large Millimeter / submillimeter Array. Astrophysical Journal, 2021, 914, 30.	4.5	13
39	The Intrinsic Structure of Sagittarius A* at 1.3 cm and 7 mm. Astrophysical Journal, 2022, 926, 108.	4.5	13
40	Simultaneous 2.25/8.60ÂGHz observations of the newly discovered magnetar â€“SwiftÂJ1818.0â€“1607. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1311-1315.	4.4	12
41	East Asian VLBI Network observations of active galactic nuclei jets: imaging with KaVA+Tianma+Nanshan. Research in Astronomy and Astrophysics, 2021, 21, 205.	1.7	12
42	TMRT Observations of 26 Pulsars at 8.6 GHz. Astrophysical Journal, 2017, 845, 156.	4.5	10
43	Measuring and analyzing thermal deformations of the primary reflector of the Tianma radio telescope. Experimental Astronomy, 2018, 45, 397-410.	3.7	9
44	Millimeter-VLBI Observations of Low-luminosity Active Galactic Nuclei with Source-frequency Phase Referencing. Astrophysical Journal Letters, 2021, 922, L16.	8.3	9
45	CHANG-ES. XXIV. First Detection of a Radio Nuclear Ring and Potential LLAGN in NGC 5792. Astrophysical Journal, 2022, 927, 4.	4.5	8
46	Improvement of the pointing precision of the Tianma radio telescope with an inclinometer measurement system. Experimental Astronomy, 2019, 48, 49-64.	3.7	7
47	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. Astrophysical Journal, 2022, 925, 13.	4.5	6
48	Research on actuator distribution and panels for a radio telescope. Research in Astronomy and Astrophysics, 2021, 21, 157.	1.7	5
49	Chemically Fresh Gas Inflows Detected in a Nearby High-mass Star-forming Region. Astrophysical Journal Letters, 2021, 923, L20.	8.3	5
50	New timing measurement results of 16 pulsars. Publication of the Astronomical Society of Japan, 2020, 72, .	2.5	4
51	ALMA Survey of Orion Planck Galactic Cold Clumps (ALMASOP): How Do Dense Core Properties Affect the Multiplicity of Protostars?. Astrophysical Journal, 2022, 931, 158.	4.5	4
52	An Eclipsing Black Widow Pulsar in NGC 6712. Astrophysical Journal, 2021, 921, 120.	4.5	3
53	A 12.2 GHz Methanol Maser Survey toward the 6.7 GHz Counterparts Associated with/without UC H ii Regions. Astrophysical Journal, Supplement Series, 2022, 258, 19.	7.7	3
54	Structural and spectral properties of Galactic plane variable radio sources. Monthly Notices of the Royal Astronomical Society, 2022, 511, 280-294.	4.4	2

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55	6 cm OH Masers in Northern Star Formation Regions. Astrophysical Journal, 2022, 928, 129.	4.5	2
56	Three-month Monitoring of the Variability toward W51 IRS2 with Ammonia, Water, and Methanol Transitions. Astrophysical Journal, Supplement Series, 2022, 260, 34.	7.7	2
57	Ground-state OH maser distributions in the Galactic Centre region. Proceedings of the International Astronomical Union, 2016, 11, 141-142.	0.0	1
58	An Excited-state OH Maser Survey toward WISE Point Sources. Astrophysical Journal, Supplement Series, 2022, 260, 51.	7.7	1
59	Study of the parsec-scale jet in the blazar 3C 66A with VLBA. Proceedings of the International Astronomical Union, 2012, 8, 367-368.	0.0	0
60	VLBI astrometry of two millisecond pulsars. Proceedings of the International Astronomical Union, 2012, 8, 562-564.	0.0	0
61	Current stage of the ATCA follow-up for SPLASH. Proceedings of the International Astronomical Union, 2017, 13, 295-296.	0.0	0