

Guang-Yao Zhao

List of Publications by Year in descending order

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59
papers

7,953
citations

236925

25
h-index

144013

57
g-index

61
all docs

61
docs citations

61
times ranked

3425
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	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
8	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
9	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	7.7	175
10	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
11	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021, 103, .	4.7	126
12	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
13	The Scattering and Intrinsic Structure of Sagittarius A* at Radio Wavelengths. <i>Astrophysical Journal</i> , 2018, 865, 104.	4.5	67
14	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
15	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65
16	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	8.3	56
17	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
18	Pilot KaVA monitoring on the M87 jet: Confirming the inner jet structure and superluminal motions at sub-pc scales. <i>Publication of the Astronomical Society of Japan</i> , 2017, 69, .	2.5	51

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19	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	4.5	51
20	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
21	Kinematics of the M87 Jet in the Collimation Zone: Gradual Acceleration and Velocity Stratification. <i>Astrophysical Journal</i> , 2019, 887, 147.	4.5	46
22	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	4.5	44
23	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	4.5	43
24	VLBI observations of bright AGN jets with the KVN and VERA Array (KaVA): Evaluation of imaging capability. <i>Publication of the Astronomical Society of Japan</i> , 2014, 66, .	2.5	42
25	KVN observations reveal multiple γ -ray emission regions in 3C 454.3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 368-378.	4.4	29
26	Jet Collimation and Acceleration in the Giant Radio Galaxy NGC 315. <i>Astrophysical Journal</i> , 2021, 909, 76.	4.5	25
27	INTERFEROMETRIC MONITORING OF GAMMA-RAY BRIGHT AGNs. I. THE RESULTS OF SINGLE-EPOCH MULTIFREQUENCY OBSERVATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 8.	7.7	24
28	Revealing the Nature of Blazar Radio Cores through Multifrequency Polarization Observations with the Korean VLBI Network. <i>Astrophysical Journal</i> , 2018, 860, 112.	4.5	21
29	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
30	Long-term millimeter VLBI monitoring of M 87 with KVN at milliarcsecond resolution: nuclear spectrum. <i>Astronomy and Astrophysics</i> , 2018, 610, L5.	5.1	18
31	SYMBA: An end-to-end VLBI synthetic data generation pipeline. <i>Astronomy and Astrophysics</i> , 2020, 636, A5.	5.1	18
32	INTERFEROMETRIC MONITORING OF GAMMA-RAY BRIGHT ACTIVE GALACTIC NUCLEI II: FREQUENCY PHASE TRANSFER. <i>Journal of the Korean Astronomical Society</i> , 2015, 48, 237-255.	1.5	18
33	Exploring the Variability of the Flat Spectrum Radio Source 1633+382. I. Phenomenology of the Light Curves. <i>Astrophysical Journal</i> , 2018, 852, 30.	4.5	16
34	The Power of Simultaneous Multi-frequency Observations for mm-VLBI: Beyond Frequency Phase Transfer. <i>Astronomical Journal</i> , 2018, 155, 26.	4.7	14
35	Exploring the Variability of the Flat-spectrum Radio Source 1633+382. II. Physical Properties. <i>Astrophysical Journal</i> , 2018, 859, 128.	4.5	14
36	Ejection of Double Knots from the Radio Core of PKS 1510-089 during the Strong Gamma-Ray Flares in 2015. <i>Astrophysical Journal</i> , 2019, 877, 106.	4.5	14

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37	Jet kinematics of the quasar 4C+21.35 from observations with the KaVA very long baseline interferometry array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 2412-2421.	4.4	14
38	A comparative study of amplitude calibrations for the East Asia VLBI Network: A priori and template spectrum methods. <i>Publication of the Astronomical Society of Japan</i> , 2017, 69, .	2.5	13
39	The Intrinsic Structure of Sagittarius A* at 1.3 cm and 7 mm. <i>Astrophysical Journal</i> , 2022, 926, 108.	4.5	13
40	East Asian VLBI Network observations of active galactic nuclei jets: imaging with KaVA+Tianma+Nanshan. <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 205.	1.7	12
41	Unraveling the Innermost Jet Structure of OJ 287 with the First GMVA + ALMA Observations. <i>Astrophysical Journal</i> , 2022, 932, 72.	4.5	12
42	The core-like nature of HST-1 in the M87 jet. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 416, L109-L113.	3.3	10
43	THE AUTOMATIC CALIBRATION OF KOREAN VLBI NETWORK DATA. <i>Journal of the Korean Astronomical Society</i> , 2016, 49, 137-144.	1.5	10
44	Exploring the nature of the 2016 γ -ray emission in the blazar 1749+096. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 2324-2333.	4.4	9
45	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
46	KEY SCIENCE OBSERVATIONS OF AGNs WITH THE KaVA ARRAY. <i>Publications of the Korean Astronomical Society</i> , 2015, 30, 633-636.	0.0	5
47	Warping and tearing of misaligned circumbinary disks around eccentric supermassive black hole binaries. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 005-005.	5.4	4
48	Position Measurements of the Core in 3C 66B. <i>Journal of Astrophysics and Astronomy</i> , 2011, 32, 61-63.	1.0	3
49	AN HOURGLASS MODEL FOR THE FLARE OF HST-1 IN M87. <i>Astronomical Journal</i> , 2013, 146, 155.	4.7	3
50	WARPED CIRCUMBINARY DISKS IN ACTIVE GALACTIC NUCLEI. <i>Astrophysical Journal</i> , 2014, 790, 62.	4.5	3
51	MULTI-EPOCH MULTI-FREQUENCY VLBI STUDY OF THE PARSEC-SCALE JET IN THE BLAZAR 3C 66A. <i>Astronomical Journal</i> , 2015, 149, 46.	4.7	3
52	KVN SOURCE-FREQUENCY PHASE-REFERENCING OBSERVATION OF 3C 66A AND 3C 66B. <i>Publications of the Korean Astronomical Society</i> , 2015, 30, 629-631.	0.0	2
53	Multi-Frequency VLBA Studies of the Parsec-Scale Jets in 3C 66A and 3C 66B. <i>Journal of Astrophysics and Astronomy</i> , 2014, 35, 209-213.	1.0	1
54	RADIATION-DRIVEN WARPING OF CIRCUMBINARY DISKS AROUND ECCENTRIC YOUNG STAR BINARIES. <i>Astrophysical Journal</i> , 2014, 797, 68.	4.5	1

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55	Millimeter VLBI observations of Sgr A* with KaVA and KVN. Proceedings of the International Astronomical Union, 2016, 11, 56-63.	0.0	1
56	VLBI Monitoring of the Sub-parsec-scale Jet in the Radio Galaxy 3C 66B at 22 GHz. Astrophysical Journal, 2017, 841, 103.	4.5	1
57	Stable Radio Core of the Blazar Mrk 501 during High-energy Active State in 2012. Astrophysical Journal, 2019, 884, 132.	4.5	1
58	Peculiar Physical Properties of HST-1 in M87. Journal of Astrophysics and Astronomy, 2011, 32, 25-28.	1.0	0
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