

Ming-Tang Chen 陈明堂,

List of Publications by Year in descending order

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110
papers

9,596
citations

136950

32
h-index

88630

70
g-index

110
all docs

110
docs citations

110
times ranked

3844
citing authors

#	ARTICLE	IF	CITATIONS
1	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
2	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	8.3	163
3	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	8.3	20
4	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
5	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
6	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	8.3	137
7	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. <i>Astrophysical Journal Letters</i> , 2022, 930, L12.	8.3	568
8	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
9	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	8.3	43
10	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	8.3	20
11	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L16.	8.3	187
12	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
13	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
14	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
15	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	8.3	56
16	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021, 103, .	4.7	126
17	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	4.5	43
18	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65

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19	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020, 125, 141104.	7.8	190
20	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	4.5	44
21	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
22	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
23	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	4.5	51
24	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	7.7	175
25	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519
26	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	8.3	618
27	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
28	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
29	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814
30	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
31	The 1.4Åmm Core of Centaurus A: First VLBI Results with the South Pole Telescope. <i>Astrophysical Journal</i> , 2018, 861, 129.	4.5	6
32	Electronics instrumentation for the Greenland telescope. , 2018, , .		3
33	The Greenland telescope: Thule operations. , 2018, , .		8
34	The first-light receivers for the Greenland Telescope. , 2018, , .		4
35	GLT receiver commissioning at JCMT and future JCMT instrumentation. , 2018, , .		1
36	Control and monitoring system for the Greenland telescope: computers, network and software. , 2018, , .		3

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37	Commissioning status of the Greenland telescope. , 2018, , .		4
38	3.5 Year Monitoring of 225 GHz Opacity at the Summit of Greenland. Publications of the Astronomical Society of the Pacific, 2017, 129, 025001.	3.1	11
39	AMiBA: CLUSTER SUNYAEVâ€™s ZELâ€™DOVICH EFFECT OBSERVATIONS WITH THE EXPANDED 13-ELEMENT ARRAY. Astrophysical Journal, 2016, 830, 91.	4.5	1
40	The Greenland Telescope: antenna retrofit status and future plans. Proceedings of SPIE, 2016, , .	0.8	6
41	A Low-cost 4 Bit, 10 Giga-samples-per-second Analog-to-digital Converter Printed Circuit Board Assembly for FPGA-based Backends. Publications of the Astronomical Society of the Pacific, 2016, 128, 115002.	3.1	6
42	180â€™220 GHz MMIC amplifier using 70-nm GaAs MHEMT technology. , 2016, , .		4
43	Current and near-term instrumentation at the James Clerk Maxwell Telescope. , 2016, , .		1
44	First-generation science cases for ground-based terahertz telescopes. Publication of the Astronomical Society of Japan, 2016, 68, .	2.5	12
45	Next generation heterodyne array for JCMT. Proceedings of SPIE, 2016, , .	0.8	0
46	Development of digital sideband separating down-conversion for Yuan-Tseh Lee Array. , 2016, , .		1
47	The JCMT as operated by the East Asian Observatory: a brief (but thrilling) history. Proceedings of SPIE, 2016, , .	0.8	0
48	The JCMT future instrumentation project. Proceedings of SPIE, 2016, , .	0.8	0
49	THE 2014 ALMA LONG BASELINE CAMPAIGN: AN OVERVIEW. Astrophysical Journal Letters, 2015, 808, L1.	8.3	90
50	Advances in Silicon Based Millimeter-Wave Monolithic Integrated Circuits. Micromachines, 2014, 5, 1373-1415.	2.9	4
51	Absorption Properties of Supercooled Liquid Water between 31 and 225 GHz: Evaluation of Absorption Models Using Ground-Based Observations. Journal of Applied Meteorology and Climatology, 2014, 53, 1028-1045.	1.5	23
52	Review of Millimeter-Wave MMIC Mixers. IEEE Design and Test, 2014, 31, 38-45.	1.2	5
53	The Greenland Telescope (GLT): antenna status and future plans. , 2014, , .		2
54	A wideband MMIC low noise amplifier with series and shunt feedback. , 2014, , .		2

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55	Greenland telescope project: Direct confirmation of black hole with submillimeter VLBI. Radio Science, 2014, 49, 564-571.	1.6	39
56	Instrumentation for single-dish observations with The Greenland Telescope. , 2014, , .		4
57	225GHz opacity measurements at Summit camp, Greenland, for the GreenLand Telescope (GLT) site testing. , 2014, , .		3
58	Development of a Mach-Zehnder Modulator Photonic Local Oscillator Source. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3005-3014.	4.6	1
59	PLATFORM DEFORMATION PHASE CORRECTION FOR THE AMiBA-13 COPLANAR INTERFEROMETER. Astrophysical Journal, 2013, 769, 71.	4.5	1
60	Cryogenic 18 GHz MMIC LNA using GaAs PHEMT. , 2013, , .		7
61	Greenland Telescope (GLT) Project. EPJ Web of Conferences, 2013, 61, 01008.	0.3	2
62	ALMA nutator design and preliminary performances. Proceedings of SPIE, 2012, , .	0.8	0
63	225 GHz Atmospheric Opacity Measurements from Two Arctic Sites. Proceedings of the International Astronomical Union, 2012, 8, 204-207.	0.0	4
64	A cryogenic 30-50 GHz balanced low noise amplifier using 0.15- μ m MHEMT process for radio astronomy applications. , 2012, , .		2
65	Opacity measurements at Summit Camp on Greenland and PEARL in northern Canada with a 225 GHz tipping radiometer. Proceedings of SPIE, 2012, , .	0.8	2
66	1.2 μ m Shielded Cassegrain Antenna for Close-Packed Radio Interferometer. Publications of the Astronomical Society of the Pacific, 2011, 123, 198-212.	3.1	2
67	Stiffness Study of a Hexapod Telescope Platform. IEEE Transactions on Antennas and Propagation, 2011, 59, 2022-2028.	5.1	5
68	AMiBA: SCALING RELATIONS BETWEEN THE INTEGRATED COMPTON- γ AND X-RAY-DERIVED TEMPERATURE, MASS, AND LUMINOSITY. Astrophysical Journal, 2010, 716, 758-765.	4.5	14
69	AMiBA WIDEBAND ANALOG CORRELATOR. Astrophysical Journal, 2010, 716, 746-757.	4.5	17
70	AMiBA: SUNYAEV-ZEL'DOVICH EFFECT-DERIVED PROPERTIES AND SCALING RELATIONS OF MASSIVE GALAXY CLUSTERS. Astrophysical Journal, 2010, 713, 584-591.	4.5	7
71	CONTAMINATION OF THE CENTRAL SUNYAEV-ZEL'DOVICH DECREMENTS IN AMiBA GALAXY CLUSTER OBSERVATIONS. Astrophysical Journal, 2010, 720, 608-613.	4.5	3
72	Control characteristics of the ALMA Nutator. , 2010, , .		0

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73	ARRAY FOR MICROWAVE BACKGROUND ANISOTROPY: OBSERVATIONS, DATA ANALYSIS, AND RESULTS FOR SUNYAEV-ZEL'DOVICH EFFECTS. <i>Astrophysical Journal</i> , 2009, 694, 1619-1628.	4.5	22
74	AMiBA: SYSTEM PERFORMANCE. <i>Astrophysical Journal</i> , 2009, 694, 1629-1636.	4.5	15
75	TESTS OF AMiBA DATA INTEGRITY. <i>Astrophysical Journal</i> , 2009, 694, 1637-1642.	4.5	14
76	AMiBA: BROADBAND HETERODYNE COSMIC MICROWAVE BACKGROUND INTERFEROMETRY. <i>Astrophysical Journal</i> , 2009, 694, 1664-1669.	4.5	25
77	MASS AND HOT BARYONS IN MASSIVE GALAXY CLUSTERS FROM SUBARU WEAK-LENSING AND AMiBA SUNYAEV-ZEL'DOVICH EFFECT OBSERVATIONS. <i>Astrophysical Journal</i> , 2009, 694, 1643-1663.	4.5	99
78	A Decision-Making Model of Budget Allocation for the Restoration of Traditional Settlement Buildings. , 2009, , .		0
79	A Novel automatic level control for gain stabilization in a radio interferometry. , 2009, , .		0
80	A distributed control system for a radio telescope with six-meter hexapod mount. , 2009, , .		2
81	THE YUAN-TSEH LEE ARRAY FOR MICROWAVE BACKGROUND ANISOTROPY. <i>Astrophysical Journal</i> , 2009, 694, 1610-1618.	4.5	35
82	THE AMiBA HEXAPOD TELESCOPE MOUNT. <i>Astrophysical Journal</i> , 2009, 694, 1670-1684.	4.5	34
83	Ka-Band Wide-Bandwidth Voltage-Controlled Oscillators in InGaP-GaAs HBT Technology. , 2008, , .		5
84	Wide-Bandwidth InGaP-GaAs HBT Voltage-Controlled Oscillators in K- and Ku-Band. , 2008, , .		5
85	From Millimeter-wave Technology to Cosmology - The AMiBA Telescope. , 2008, , .		1
86	Cryogenic testing and multi-chip module design of a 31.3-45GHz MHEMT MMIC-based heterodyne receiver for radio astronomy. <i>Proceedings of SPIE</i> , 2008, , .	0.8	2
87	AMiBA: FIRST-YEAR RESULTS FOR SUNYAEV-ZEL'DOVICH EFFECT. <i>Modern Physics Letters A</i> , 2008, 23, 1675-1686.	1.2	6
88	320-420GHz Low-Noise Heterodyne Receiver Modules for the Submillimeter Array of Taiwan. , 2008, , .		0
89	AMiBA first year observation. , 2008, , .		3
90	Platform deformation refined pointing and phase correction for the AMiBA hexapod telescope. <i>Proceedings of SPIE</i> , 2008, , .	0.8	3

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91	Photogrammetry measurement of the AMiBA 6-meter platform. Proceedings of SPIE, 2008, , .	0.8	4
92	Submillimeter-Wave Phasor Beam-Pattern Measurement Based on Two-Stage Heterodyne Mixing With Unitary Harmonic Difference. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1200-1208.	4.6	3
93	Progress of the array of microwave background anisotropy (AMiBA). , 2006, , .		5
94	Initial operation of the array for microwave background anisotropy (AMiBA). , 2006, 6275, 487.		3
95	THE AMIBA PROJECT. Modern Physics Letters A, 2004, 19, 993-1000.	1.2	10
96	CFRP platform and hexapod mount for the Array of Microwave Background Anisotropy (AMiBA). , 2004, , .		8
97	A wideband analog correlator system for AMiBA. , 2004, 5498, 455.		17
98	Edgemagnetoplasmons in a partially screened system. Physica B: Condensed Matter, 2003, 329-333, 268-269.	2.7	2
99	Full-polarization W-band receiver for CMB detection. , 2003, 4855, 312.		2
100	<title>Taiwanese antennas for the Sub-Millimeter Array: a progress report</title>. , 2000, 4015, 169.		2
101	<title>Progress report on the Sub-Millimeter Array in Taiwan: the receiver system</title>. , 2000, 4015, 247.		0
102	<title>Receiver-beam characterization for the SMA</title>. , 1998, , .		3
103	Characterization of corrugated feed horns at 216 and 300 GHz. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 1697-1711.	0.6	4
104	Optical cell for observing solidification of helium. Cryogenics, 1995, 35, 71.	1.7	4
105	Superfluid helium on solid hydrogen. Physica B: Condensed Matter, 1994, 197, 278-282.	2.7	20
106	Extraordinary behavior of ^4He on hydrogen and deuterium surfaces. Journal of Low Temperature Physics, 1992, 89, 125-134.	1.4	50
107	A near-field alignment technique at millimeter and sub-millimeter wavelengths. , 0, , .		1
108	Developments of MM- and sub-MM wavelength radio telescopes in Taiwan. , 0, , .		0

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109	600-696GHz Heterodyne Receiver with Fixed-Tuned SIS Mixer and Martin-Puplett LO/RF Diplexer. , 0, , .		1
110	A 5 Giga Samples Per Second 8-Bit Analog to Digital Printed Circuit Board for Radio Astronomy. Publications of the Astronomical Society of the Pacific, 0, , 000-000.	3.1	6