Andrew A Chael

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. Astrophysical Journal, 2022, 925, 13.	4.5	6
2	Jets in magnetically arrested hot accretion flows: geometry, power, and black hole spin-down. Monthly Notices of the Royal Astronomical Society, 2022, 511, 3795-3813.	4.4	58
3	MeqSilhouette v2: spectrally resolved polarimetric synthetic data generation for the event horizon telescope. Monthly Notices of the Royal Astronomical Society, 2022, 512, 490-504.	4.4	7
4	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
5	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	8.3	20
6	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. Astrophysical Journal Letters, 2022, 930, L17.	8.3	215
7	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
8	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. Astrophysical Journal Letters, 2022, 930, L15.	8.3	137
9	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
10	Selective Dynamical Imaging of Interferometric Data. Astrophysical Journal Letters, 2022, 930, L18.	8.3	21
11	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2022, 930, L19.	8.3	43
12	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. Astrophysical Journal Letters, 2022, 930, L20.	8.3	20
13	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
14	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. Astrophysical Journal Letters, 2021, 910, L12.	8.3	215
15	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	8.3	67
16	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. Astrophysical Journal Letters, 2021, 910, L13.	8.3	297
17	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2021, 911, L11.	8.3	56
18	New views of black holes from computational imaging. Nature Computational Science, 2021, 1, 300-303.	8.0	1

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19	Constraints on black-hole charges with the 2017 EHT observations of M87*. Physical Review D, 2021, 103, .	4.7	126
20	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. Astrophysical Journal, 2021, 912, 35.	4.5	43
21	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. Nature Astronomy, 2021, 5, 1017-1028.	10.1	65
22	Observing the Inner Shadow of a Black Hole: A Direct View of the Event Horizon. Astrophysical Journal, 2021, 918, 6.	4.5	72
23	Positron Effects on Polarized Images and Spectra from Jet and Accretion Flow Models of M87* and Sgr A*. Astrophysical Journal, 2021, 923, 272.	4.5	13
24	Verification of Radiative Transfer Schemes for the EHT. Astrophysical Journal, 2020, 897, 148.	4.5	44
25	Closure Statistics in Interferometric Data. Astrophysical Journal, 2020, 894, 31.	4.5	42
26	Determining the Composition of Relativistic Jets from Polarization Maps. Astrophysical Journal, 2020, 896, 30.	4.5	16
27	Universal interferometric signatures of a black hole's photon ring. Science Advances, 2020, 6, eaaz1310.	10.3	161
28	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. Astrophysical Journal, 2020, 897, 139.	4.5	47
29	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
30	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. Astrophysical Journal, 2020, 901, 67.	4.5	51
31	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. Astrophysical Journal, Supplement Series, 2019, 243, 26.	7.7	175
32	Metrics and Motivations for Earth–Space VLBI: Time-resolving Sgr A* with the Event Horizon Telescope. Astrophysical Journal, 2019, 881, 62.	4.5	36
33	Two-temperature, Magnetically Arrested Disc simulations of the jet from the supermassive black hole in M87. Monthly Notices of the Royal Astronomical Society, 2019, 486, 2873-2895.	4.4	105
34	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. Astrophysical Journal Letters, 2019, 875, L3.	8.3	519
35	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. Astrophysical Journal Letters, 2019, 875, L2.	8.3	618
36	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L4.	8.3	806

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37	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L1.	8.3	2,264
38	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. Astrophysical Journal Letters, 2019, 875, L5.	8.3	814
39	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
40	EHT-HOPS Pipeline for Millimeter VLBI Data Reduction. Astrophysical Journal, 2019, 882, 23.	4.5	34
41	Interferometric Imaging Directly with Closure Phases and Closure Amplitudes. Astrophysical Journal, 2018, 857, 23.	4.5	159
42	The role of electron heating physics in images and variability of the Galactic Centre black hole Sagittarius A*. Monthly Notices of the Royal Astronomical Society, 2018, 478, 5209-5229.	4.4	94
43	Reconstructing Video of Time-Varying Sources From Radio Interferometric Measurements. IEEE Transactions on Computational Imaging, 2018, 4, 512-527.	4.4	22
44	Imaging the Schwarzschild-radius-scale Structure of M87 with the Event Horizon Telescope Using Sparse Modeling. Astrophysical Journal, 2017, 838, 1.	4.5	111
45	Radiative, two-temperature simulations of low-luminosity black hole accretion flows in general relativity. Monthly Notices of the Royal Astronomical Society, 2017, 466, 705-725.	4.4	100
46	Evolving non-thermal electrons in simulations of black hole accretion. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2367-2386.	4.4	39
47	Dynamical Imaging with Interferometry. Astrophysical Journal, 2017, 850, 172.	4.5	52
48	Observing—and Imaging—Active Galactic Nuclei with the Event Horizon Telescope. Galaxies, 2016, 4, 54.	3.0	63
49	PERSISTENT ASYMMETRIC STRUCTURE OF SAGITTARIUS A* ON EVENT HORIZON SCALES. Astrophysical Journal, 2016, 820, 90.	4.5	65
50	HIGH-RESOLUTION LINEAR POLARIMETRIC IMAGING FOR THE EVENT HORIZON TELESCOPE. Astrophysical Journal, 2016, 829, 11.	4.5	159
51	THE INTRINSIC SHAPE OF SAGITTARIUS A* AT 3.5 mm WAVELENGTH. Astrophysical Journal, 2016, 824, 40.	4.5	31
52	MEASURING THE DIRECTION AND ANGULAR VELOCITY OF A BLACK HOLE ACCRETION DISK VIA LAGGED INTERFEROMETRIC COVARIANCE. Astrophysical Journal, 2015, 813, 132.	4.5	7
53	Resolved magnetic-field structure and variability near the event horizon of Sagittarius A*. Science, 2015, 350, 1242-1245.	12.6	176