Andrew A Chael

List of Publications by Year
in descending order

53	10,303	81889 39	168376 53
papers	citations	h-index	g-index

53	53	53	3429
all docs	docs citations	times ranked	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	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
12	Resolved magnetic-field structure and variability near the event horizon of Sagittarius A*. Science, 2015, 350, 1242-1245.	12.6	176
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	Universal interferometric signatures of a black holeâ€™s photon ring. Science Advances, 2020, 6, eaaz1310.	10.3	161
16	HIGH-RESOLUTION LINEAR POLARIMETRIC IMAGING FOR THE EVENT HORIZON TELESCOPE. Astrophysical Journal, 2016, 829, 11.	4.5	159
17	Interferometric Imaging Directly with Closure Phases and Closure Amplitudes. Astrophysical Journal, 2018, 857, 23.	4.5	159
18	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

#	Article	IF	Citations
19	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. Astrophysical Journal Letters, 2022, 930, L15.	8.3	137
20	Constraints on black-hole charges with the 2017 EHT observations of M87*. Physical Review D, 2021, 103, .	4.7	126
21	Imaging the Schwarzschild-radius-scale Structure of M87 with the Event Horizon Telescope Using Sparse Modeling. Astrophysical Journal, 2017, 838, 1.	4.5	111
22	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
23	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
24	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
25	Observing the Inner Shadow of a Black Hole: A Direct View of the Event Horizon. Astrophysical Journal, 2021, 918, 6.	4.5	72
26	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	8.3	67
27	PERSISTENT ASYMMETRIC STRUCTURE OF SAGITTARIUS A* ON EVENT HORIZON SCALES. Astrophysical Journal, 2016, 820, 90.	4.5	65
28	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. Nature Astronomy, 2021, 5, 1017-1028.	10.1	65
29	Observingâ€"and Imagingâ€"Active Galactic Nuclei with the Event Horizon Telescope. Galaxies, 2016, 4, 54.	3.0	63
30	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
31	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2021, 911, L11.	8.3	56
32	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
33	Dynamical Imaging with Interferometry. Astrophysical Journal, 2017, 850, 172.	4.5	52
34	Monitoring the Morphology of M87* in 2009â€"2017 with the Event Horizon Telescope. Astrophysical Journal, 2020, 901, 67.	4.5	51
35	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. Astrophysical Journal, 2020, 897, 139.	4.5	47
36	Verification of Radiative Transfer Schemes for the EHT. Astrophysical Journal, 2020, 897, 148.	4.5	44

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37	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. Astrophysical Journal, 2021, 912, 35.	4.5	43
38	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2022, 930, L19.	8.3	43
39	Closure Statistics in Interferometric Data. Astrophysical Journal, 2020, 894, 31.	4.5	42
40	Evolving non-thermal electrons in simulations of black hole accretion. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2367-2386.	4.4	39
41	Metrics and Motivations for Earthâ€“Space VLBI: Time-resolving Sgr A* with the Event Horizon Telescope. Astrophysical Journal, 2019, 881, 62.	4.5	36
42	EHT-HOPS Pipeline for Millimeter VLBI Data Reduction. Astrophysical Journal, 2019, 882, 23.	4.5	34
43	THE INTRINSIC SHAPE OF SAGITTARIUS A* AT 3.5 mm WAVELENGTH. Astrophysical Journal, 2016, 824, 40.	4.5	31
44	Reconstructing Video of Time-Varying Sources From Radio Interferometric Measurements. IEEE Transactions on Computational Imaging, 2018, 4, 512-527.	4.4	22
45	Selective Dynamical Imaging of Interferometric Data. Astrophysical Journal Letters, 2022, 930, L18.	8.3	21
46	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	8.3	20
47	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. Astrophysical Journal Letters, 2022, 930, L20.	8.3	20
48	Determining the Composition of Relativistic Jets from Polarization Maps. Astrophysical Journal, 2020, 896, 30.	4.5	16
49	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
50	MEASURING THE DIRECTION AND ANGULAR VELOCITY OF A BLACK HOLE ACCRETION DISK VIA LAGGED INTERFEROMETRIC COVARIANCE. Astrophysical Journal, 2015, 813, 132.	4.5	7
51	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
52	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. Astrophysical Journal, 2022, 925, 13.	4.5	6
53	New views of black holes from computational imaging. Nature Computational Science, 2021, 1, 300-303.	8.0	1