

# Hctor Olivares

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54 papers	4,194 citations	21 h-index	55 g-index
55 ext. papers	6,922 ext. citations	6.4 avg, IF	4.22 L-index

#	Paper	IF	Citations
54	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , <b>2022</b> , 925, 13	4.7	2
53	Optimizing the hybrid parallelization of BHAC. <i>Astronomy and Computing</i> , <b>2022</b> , 38, 100509	2.4	2
52	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 930, L14	7.9	20
51	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 930, L21	7.9	9
50	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 930, L17	7.9	14
49	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 930, L13	7.9	16
48	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 930, L15	7.9	16
47	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> , <b>2022</b> , 930, L12	7.9	23
46	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 930, L18	7.9	7
45	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 930, L19	7.9	11
44	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 930, L20	7.9	8
43	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 930, L16	7.9	18
42	Accreting Black Hole Binaries <b>2021</b> , 59-67		
41	Fuzzball Shadows: Emergent Horizons from Microstructure. <i>Physical Review Letters</i> , <b>2021</b> , 127, 171601	7.4	1
40	Visibility of black hole shadows in low-luminosity AGN. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 501, 4722-4747	4.3	10
39	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 910, L14	7.9	28
38	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 910, L13	7.9	70

37	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 911, L11	7.9	16
36	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , <b>2021</b> , 103,	4.9	18
35	Using space-VLBI to probe gravity around Sgr A*. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 649, A116	5.1	5
34	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , <b>2021</b> , 912, 35	4.7	7
33	Comparison of the ion-to-electron temperature ratio prescription: GRMHD simulations with electron thermodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 506, 741-758	4.3	13
32	Long-term Simulations of Magnetized Disks and Jets Around Supermassive Black-hole Binaries in General Relativity <b>2021</b> , 23-31		
31	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 910, L12	7.9	58
30	Plasmoid formation in global GRMHD simulations and AGN flares. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 495, 1549-1565	4.3	32
29	Two-moment scheme for general-relativistic radiation hydrodynamics: a systematic description and new applications. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 495, 2285-2304	4.3	9
28	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , <b>2020</b> , 897, 139	4.7	24
27	How to tell an accreting boson star from a black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 497, 521-535	4.3	31
26	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 640, A69	5.1	21
25	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , <b>2020</b> , 901, 67	4.7	20
24	SYMBA: An end-to-end VLBI synthetic data generation pipeline. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 636, A5	5.1	7
23	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , <b>2020</b> , 125, 141104	7.4	74
22	Deep Horizon: A machine learning network that recovers accreting black hole parameters. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 636, A94	5.1	9
21	General-relativistic Resistive Magnetohydrodynamics with Robust Primitive-variable Recovery for Accretion Disk Simulations. <i>Astrophysical Journal, Supplement Series</i> , <b>2019</b> , 244, 10	8	25
20	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 875, L3	7.9	267

19	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 875, L2	7.9	325
18	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 875, L4	7.9	411
17	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 875, L1	7.9	1110
16	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 875, L5	7.9	429
15	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 875, L6	7.9	466
14	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , <b>2019</b> , 243, 26	8	96
13	Using evolutionary algorithms to model relativistic jets. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 629, A4	5.1	15
12	Constrained transport and adaptive mesh refinement in the Black Hole Accretion Code. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 629, A61	5.1	27
11	Modeling non-thermal emission from the jet-launching region of M 87 with adaptive mesh refinement. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 632, A2	5.1	37
10	The current ability to test theories of gravity with black hole shadows. <i>Nature Astronomy</i> , <b>2018</b> , 2, 585-590.	10.1	115
9	Modelling the polarised emission from black holes on event horizon-scales. <i>Proceedings of the International Astronomical Union</i> , <b>2018</b> , 14, 9-12	0.1	9
8	The black hole accretion code. <i>Computational Astrophysics and Cosmology</i> , <b>2017</b> , 4,	18.9	103
7	Radiative Signatures of Parsec-Scale Magnetised Jets. <i>Galaxies</i> , <b>2017</b> , 5, 73	2	5
6	Observational signatures of spherically-symmetric black hole spacetimes. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 942, 012007	0.3	1
5	BlackHoleCam: Fundamental physics of the galactic center <b>2017</b> ,		2
4	BlackHoleCam: Fundamental physics of the galactic center. <i>International Journal of Modern Physics D</i> , <b>2017</b> , 26, 1730001	2.2	130
3	Simulations of recoiling black holes: adaptive mesh refinement and radiative transfer. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 598, A38	5.1	6
2	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> ,	12.1	13

1	Impact of non-thermal particles on the spectral and structural properties of M87. <i>Astronomy and Astrophysics</i> ,	5.1	3
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