

Hctor Olivares

List of Publications by Citations

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|-------------------|-------------------------|----------------|-----------------|
| 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 | First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L1 | 7.9 | 1110 |
| 53 | First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L6 | 7.9 | 466 |
| 52 | First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019 , 875, L5 | 7.9 | 429 |
| 51 | First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L4 | 7.9 | 411 |
| 50 | First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019 , 875, L2 | 7.9 | 325 |
| 49 | First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019 , 875, L3 | 7.9 | 267 |
| 48 | BlackHoleCam: Fundamental physics of the galactic center. <i>International Journal of Modern Physics D</i> , 2017 , 26, 1730001 | 2.2 | 130 |
| 47 | The current ability to test theories of gravity with black hole shadows. <i>Nature Astronomy</i> , 2018 , 2, 585-590. | 11.1 | 115 |
| 46 | The black hole accretion code. <i>Computational Astrophysics and Cosmology</i> , 2017 , 4, | 18.9 | 103 |
| 45 | The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243, 26 | 8 | 96 |
| 44 | Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020 , 125, 141104 | 7.4 | 74 |
| 43 | First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021 , 910, L13 | 7.9 | 70 |
| 42 | First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021 , 910, L12 | 7.9 | 58 |
| 41 | Modeling non-thermal emission from the jet-launching region of M 87 with adaptive mesh refinement. <i>Astronomy and Astrophysics</i> , 2019 , 632, A2 | 5.1 | 37 |
| 40 | Plasmoid formation in global GRMHD simulations and AGN flares. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 1549-1565 | 4.3 | 32 |
| 39 | How to tell an accreting boson star from a black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 521-535 | 4.3 | 31 |
| 38 | Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021 , 910, L14 | 7.9 | 28 |

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| 37 | Constrained transport and adaptive mesh refinement in the Black Hole Accretion Code. <i>Astronomy and Astrophysics</i> , 2019 , 629, A61 | 5.1 | 27 |
| 36 | General-relativistic Resistive Magnetohydrodynamics with Robust Primitive-variable Recovery for Accretion Disk Simulations. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 244, 10 | 8 | 25 |
| 35 | THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 897, 139 | 4.7 | 24 |
| 34 | 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 | 7.9 | 23 |
| 33 | 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 | 21 |
| 32 | Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 901, 67 | 4.7 | 20 |
| 31 | First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022 , 930, L14 | 7.9 | 20 |
| 30 | Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021 , 103, | 4.9 | 18 |
| 29 | 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 | 7.9 | 18 |
| 28 | Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021 , 911, L11 | 7.9 | 16 |
| 27 | First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022 , 930, L13 | 7.9 | 16 |
| 26 | First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022 , 930, L15 | 7.9 | 16 |
| 25 | Using evolutionary algorithms to model relativistic jets. <i>Astronomy and Astrophysics</i> , 2019 , 629, A4 | 5.1 | 15 |
| 24 | First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022 , 930, L17 | 7.9 | 14 |
| 23 | Comparison of the ion-to-electron temperature ratio prescription: GRMHD simulations with electron thermodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 506, 741-758 | 4.3 | 13 |
| 22 | Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , | 12.1 | 13 |
| 21 | Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022 , 930, L19 | 7.9 | 11 |
| 20 | Visibility of black hole shadows in low-luminosity AGN. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 501, 4722-4747 | 4.3 | 10 |

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| 19 | Two-moment scheme for general-relativistic radiation hydrodynamics: a systematic description and new applications. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 2285-2304 | 4.3 | 9 |
| 18 | Deep Horizon: A machine learning network that recovers accreting black hole parameters. <i>Astronomy and Astrophysics</i> , 2020 , 636, A94 | 5.1 | 9 |
| 17 | Modelling the polarised emission from black holes on event horizon-scales. <i>Proceedings of the International Astronomical Union</i> , 2018 , 14, 9-12 | 0.1 | 9 |
| 16 | Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022 , 930, L21 | 7.9 | 9 |
| 15 | A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022 , 930, L20 | 7.9 | 8 |
| 14 | SYMBA: An end-to-end VLBI synthetic data generation pipeline. <i>Astronomy and Astrophysics</i> , 2020 , 636, A5 | 5.1 | 7 |
| 13 | The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021 , 912, 35 | 4.7 | 7 |
| 12 | Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022 , 930, L18 | 7.9 | 7 |
| 11 | Simulations of recoiling black holes: adaptive mesh refinement and radiative transfer. <i>Astronomy and Astrophysics</i> , 2017 , 598, A38 | 5.1 | 6 |
| 10 | Radiative Signatures of Parsec-Scale Magnetised Jets. <i>Galaxies</i> , 2017 , 5, 73 | 2 | 5 |
| 9 | Using space-VLBI to probe gravity around Sgr A*. <i>Astronomy and Astrophysics</i> , 2021 , 649, A116 | 5.1 | 5 |
| 8 | Impact of non-thermal particles on the spectral and structural properties of M87. <i>Astronomy and Astrophysics</i> , | 5.1 | 3 |
| 7 | BlackHoleCam: Fundamental physics of the galactic center 2017 , | | 2 |
| 6 | The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022 , 925, 13 | 4.7 | 2 |
| 5 | Optimizing the hybrid parallelization of BHAC. <i>Astronomy and Computing</i> , 2022 , 38, 100509 | 2.4 | 2 |
| 4 | Observational signatures of spherically-symmetric black hole spacetimes. <i>Journal of Physics: Conference Series</i> , 2017 , 942, 012007 | 0.3 | 1 |
| 3 | Fuzzball Shadows: Emergent Horizons from Microstructure. <i>Physical Review Letters</i> , 2021 , 127, 171601 | 7.4 | 1 |
| 2 | Accreting Black Hole Binaries 2021 , 59-67 | | |

- 1 Long-term Simulations of Magnetized Disks and Jets Around Supermassive Black-hole Binaries in General Relativity **2021**, 23-31