

HÃ©ctor Olivares

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

9,834
citations

126858

33
h-index

175177

52
g-index

55
all docs

55
docs citations

55
times ranked

3379
citing authors

#	ARTICLE	IF	CITATIONS
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L1.	3.0	2,264
2	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	3.0	897
3	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	3.0	814
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	3.0	806
5	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	3.0	618
6	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.	3.0	568
7	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	3.0	519
8	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	3.0	297
9	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	3.0	215
10	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	3.0	215
11	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020, 125, 141104.	2.9	190
12	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.	3.0	187
13	The current ability to test theories of gravity with black hole shadows. <i>Nature Astronomy</i> , 2018, 2, 585-590.	4.2	180
14	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	3.0	175
15	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	3.0	163
16	The black hole accretion code. <i>Computational Astrophysics and Cosmology</i> , 2017, 4, .	22.7	154
17	BlackHoleCam: Fundamental physics of the galactic center. <i>International Journal of Modern Physics D</i> , 2017, 26, 1730001.	0.9	148
18	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	3.0	142

#	ARTICLE	IF	CITATIONS
19	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	3.0	137
20	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021, 103, .	1.6	126
21	How to tell an accreting boson star from a black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 521-535.	1.6	80
22	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	3.0	67
23	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	4.2	65
24	Modeling non-thermal emission from the jet-launching region of M 87 with adaptive mesh refinement. <i>Astronomy and Astrophysics</i> , 2019, 632, A2.	2.1	61
25	Plasmoid formation in global GRMHD simulations and AGN flares. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 1549-1565.	1.6	57
26	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	3.0	56
27	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020, 640, A69.	2.1	54
28	Constrained transport and adaptive mesh refinement in the Black Hole Accretion Code. <i>Astronomy and Astrophysics</i> , 2019, 629, A61.	2.1	51
29	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	1.6	51
30	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	1.6	47
31	General-relativistic Resistive Magnetohydrodynamics with Robust Primitive-variable Recovery for Accretion Disk Simulations. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 10.	3.0	45
32	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	1.6	43
33	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	3.0	43
34	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.	1.6	31
35	Impact of non-thermal particles on the spectral and structural properties of M87. <i>Astronomy and Astrophysics</i> , 2022, 660, A107.	2.1	26
36	Using evolutionary algorithms to model relativistic jets. <i>Astronomy and Astrophysics</i> , 2019, 629, A4.	2.1	24

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37	Visibility of black hole shadows in low-luminosity AGN. Monthly Notices of the Royal Astronomical Society, 2021, 501, 4722-4747.	1.6	21
38	Fuzzball Shadows: Emergent Horizons from Microstructure. Physical Review Letters, 2021, 127, 171601.	2.9	21
39	Selective Dynamical Imaging of Interferometric Data. Astrophysical Journal Letters, 2022, 930, L18.	3.0	21
40	Two-moment scheme for general-relativistic radiation hydrodynamics: a systematic description and new applications. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2285-2304.	1.6	20
41	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	3.0	20
42	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. Astrophysical Journal Letters, 2022, 930, L20.	3.0	20
43	SYMBA: An end-to-end VLBI synthetic data generation pipeline. Astronomy and Astrophysics, 2020, 636, A5.	2.1	18
44	Deep Horizon: A machine learning network that recovers accreting black hole parameters. Astronomy and Astrophysics, 2020, 636, A94.	2.1	17
45	Using space-VLBI to probe gravity around Sgr A [*] . Astronomy and Astrophysics, 2021, 649, A116.	2.1	16
46	Modelling the polarised emission from black holes on event horizon-scales. Proceedings of the International Astronomical Union, 2018, 14, 9-12.	0.0	11
47	Simulations of recoiling black holes: adaptive mesh refinement and radiative transfer. Astronomy and Astrophysics, 2017, 598, A38.	2.1	8
48	Radiative Signatures of Parsec-Scale Magnetised Jets. Galaxies, 2017, 5, 73.	1.1	6
49	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. Astrophysical Journal, 2022, 925, 13.	1.6	6
50	BlackHoleCam: Fundamental physics of the galactic center. , 2017, , .		5
51	Optimizing the hybrid parallelization of BHAC. Astronomy and Computing, 2022, 38, 100509.	0.8	4
52	New first-order formulation of the Einstein equations exploiting analogies with electrodynamics. Physical Review D, 2022, 105, .	1.6	3
53	Observational signatures of spherically-symmetric black hole spacetimes. Journal of Physics: Conference Series, 2017, 942, 012007.	0.3	1
54	Long-term Simulations of Magnetized Disks and Jets Around Supermassive Black-hole Binaries in General Relativity. , 2021, , 23-31.		0

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55	Accreting Black Hole Binaries. , 2021, , 59-67.		0