Alejandro Cruz-Osorio

List of Publications by Year
in descending order

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37 papers	2,726 citations	331670 21 h-index	330143 37 g-index
37 all docs	37 docs citations	37 times ranked	796 citing authors

#	Article	IF	Citations
1	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
2	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. Astrophysical Journal Letters, 2021, 910, L13.	8.3	297
3	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. Astrophysical Journal Letters, 2021, 910, L12.	8.3	215
4	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. Astrophysical Journal Letters, 2022, 930, L17.	8.3	215
5	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
6	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
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	Constraints on black-hole charges with the 2017 EHT observations of M87*. Physical Review D, 2021, 103, .	4.7	126
10	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	8.3	67
11	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. Nature Astronomy, 2021, 5, 1017-1028.	10.1	65
12	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2021, 911, L11.	8.3	56
13	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. Astrophysical Journal, 2021, 912, 35.	4.5	43
14	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2022, 930, L19.	8.3	43
15	Is the flip-flop behaviour of accretion shock cones on to black holes an effect of coordinates?. Monthly Notices of the Royal Astronomical Society, 2012, 426, 732-738.	4.4	40
16	State-of-the-art energetic and morphological modelling of the launching site of the M87 jet. Nature Astronomy, 2022, 6, 103-108.	10.1	33
17	CAFE: A NEW RELATIVISTIC MHD CODE. Astrophysical Journal, Supplement Series, 2015, 218, 24.	7.7	31
18	Scalar field dark matter: behavior around black holes. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 029-029.	5.4	26

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19	Impact of non-thermal particles on the spectral and structural properties of M87. Astronomy and Astrophysics, 2022, 660, A107.	5.1	26
20	RELATIVISTIC BONDIâ€“HOYLEâ€“LYTTLETON ACCRETION ONTO A ROTATING BLACK HOLE: DENSITY GRADIENTS. Astrophysical Journal, Supplement Series, 2015, 219, 30.	7.7	25
21	Anisotropic quark stars with an interacting quark equation of state. Physical Review D, 2019, 100, .	4.7	21
22	Common-envelope Dynamics of a Stellar-mass Black Hole: General Relativistic Simulations. Astrophysical Journal, 2020, 894, 147.	4.5	21
23	Selective Dynamical Imaging of Interferometric Data. Astrophysical Journal Letters, 2022, 930, L18.	8.3	21
24	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	8.3	20
25	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. Astrophysical Journal Letters, 2022, 930, L20.	8.3	20
26	Relativistic Bondiâ€“Hoyleâ€“Lyttleton accretion in the presence of small rigid bodies around a black hole. Monthly Notices of the Royal Astronomical Society, 2017, 471, 3127-3134.	4.4	16
27	Non-axisymmetric relativistic wind accretion with velocity gradients on to a rotating black hole. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3193-3201.	4.4	15
28	Magnetized discs and photon rings around Yukawa-like black holes. Physical Review D, 2021, 103, .	4.7	15
29	Evolution of a massless test scalar field on boson star space-times. Physical Review D, 2010, 82, .	4.7	14
30	Newtonian cafe: a new ideal MHD code to study the solar atmosphere. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1871-1885.	4.4	14
31	PBH mass growth through radial accretion during the radiation dominated era. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 015-015.	5.4	12
32	GW190521 formation scenarios via relativistic accretion. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 032.	5.4	11
33	Non-linear evolutions of magnetized thick discs around black holes: dependence on the initial data. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5730-5742.	4.4	7
34	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. Astrophysical Journal, 2022, 925, 13.	4.5	6
35	Neutron and quark stars: constraining the parameters for simple EoS using the GW170817. Astrophysics and Space Science, 2020, 365, 1.	1.4	4
36	Numerical solution of the wave equation on 1+1 Minkowski space-time with scri-fixing conformal compatification. AIP Conference Proceedings, 2010, , .	0.4	2

#	Article	IF	Citations
37	The shocks during the accretion of an ultrarelativistic supersonic gas onto a rotating black hole. AIP Conference Proceedings, 2013, , .	0.4	2