

Alejandro Cruz-Osorio

List of Publications by Year in descending order

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Version: 2024-02-01

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	State-of-the-art energetic and morphological modelling of the launching site of the M87 jet. <i>Nature Astronomy</i> , 2022, 6, 103-108.	10.1	33
2	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
3	Impact of non-thermal particles on the spectral and structural properties of M87. <i>Astronomy and Astrophysics</i> , 2022, 660, A107.	5.1	26
4	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	8.3	163
5	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	8.3	20
6	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
7	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	8.3	142
8	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	8.3	137
9	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.	8.3	568
10	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
11	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	8.3	43
12	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	8.3	20
13	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.	8.3	187
14	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
15	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
16	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	8.3	297
17	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	8.3	56
18	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021, 103, .	4.7	126

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19	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	4.5	43
20	Magnetized discs and photon rings around Yukawa-like black holes. <i>Physical Review D</i> , 2021, 103, .	4.7	15
21	GW190521 formation scenarios via relativistic accretion. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 032.	5.4	11
22	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65
23	Common-envelope Dynamics of a Stellar-mass Black Hole: General Relativistic Simulations. <i>Astrophysical Journal</i> , 2020, 894, 147.	4.5	21
24	Neutron and quark stars: constraining the parameters for simple EoS using the GW170817. <i>Astrophysics and Space Science</i> , 2020, 365, 1.	1.4	4
25	Non-linear evolutions of magnetized thick discs around black holes: dependence on the initial data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5730-5742.	4.4	7
26	Anisotropic quark stars with an interacting quark equation of state. <i>Physical Review D</i> , 2019, 100, .	4.7	21
27	Relativistic Bondiâ€™Hoyleâ€™Lyttleton accretion in the presence of small rigid bodies around a black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 3127-3134.	4.4	16
28	Non-axisymmetric relativistic wind accretion with velocity gradients on to a rotating black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 3193-3201.	4.4	15
29	CAFE: A NEW RELATIVISTIC MHD CODE. <i>Astrophysical Journal, Supplement Series</i> , 2015, 218, 24.	7.7	31
30	Newtonian cafe: a new ideal MHD code to study the solar atmosphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 1871-1885.	4.4	14
31	RELATIVISTIC BONDIA€™HOYLEA€™LYTTLETON ACCRETION ONTO A ROTATING BLACK HOLE: DENSITY GRADIENTS. <i>Astrophysical Journal, Supplement Series</i> , 2015, 219, 30.	7.7	25
32	PBH mass growth through radial accretion during the radiation dominated era. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 015-015.	5.4	12
33	The shocks during the accretion of an ultrarelativistic supersonic gas onto a rotating black hole. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	2
34	Is the flip-flop behaviour of accretion shock cones on to black holes an effect of coordinates?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 426, 732-738.	4.4	40
35	Scalar field dark matter: behavior around black holes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 029-029.	5.4	26
36	Numerical solution of the wave equation on 1+1 Minkowski space-time with scri-fixing conformal compatification. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	2

#	ARTICLE	IF	CITATIONS
37	Evolution of a massless test scalar field on boson star space-times. Physical Review D, 2010, 82, .	4.7	14