Feryal Ã–zel

List of Publications by Year
in descending order

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43 papers	10,541 citations	126907 33 h-index	243625 44 g-index
44 all docs	44 docs citations	44 times ranked	5488 citing authors

#	Article	IF	Citations
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L1.	8.3	2,264
2	Masses, Radii, and the Equation of State of Neutron Stars. Annual Review of Astronomy and Astrophysics, 2016, 54, 401-440.	24.3	964
3	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. Astrophysical Journal Letters, 2019, 875, L6.	8.3	897
4	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. Astrophysical Journal Letters, 2019, 875, L5.	8.3	814
5	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L4.	8.3	806
6	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. Astrophysical Journal Letters, 2019, 875, L2.	8.3	618
7	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
8	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. Astrophysical Journal Letters, 2019, 875, L3.	8.3	519
9	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. Astrophysical Journal Letters, 2021, 910, L13.	8.3	297
10	Astrophysical measurement of the equation of state of neutron star matter. Physical Review D, 2010, 82, .	4.7	252
11	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. Astrophysical Journal Letters, 2021, 910, L12.	8.3	215
12	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. Astrophysical Journal Letters, 2022, 930, L17.	8.3	215
13	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. Physical Review Letters, 2020, 125, 141104.	7.8	190
14	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
15	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
16	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
17	Hybrid Thermalâ€Nonthermal Synchrotron Emission from Hot Accretion Flows. Astrophysical Journal, 2000, 541, 234-249.	4.5	139
18	THE POWER OF IMAGING: CONSTRAINING THE PLASMA PROPERTIES OF GRMHD SIMULATIONS USING EHT OBSERVATIONS OF Sgr A*. Astrophysical Journal, 2015, 799, 1.	4.5	123

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19	A GENERAL RELATIVISTIC NULL HYPOTHESIS TEST WITH EVENT HORIZON TELESCOPE OBSERVATIONS OF THE BLACK HOLE SHADOW IN Sgr A*. Astrophysical Journal, 2015, 814, 115.	4.5	105
20	Gas clumping in self-consistent reionization models. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2464-2479.	4.4	104
21	Surface emission from neutron stars and implications for the physics of their interiors. Reports on Progress in Physics, 2013, 76, 016901.	20.1	102
22	NICER and Fermi GBM Observations of the First Galactic Ultraluminous X-Ray Pulsar Swift J0243.6+6124. Astrophysical Journal, 2018, 863, 9.	4.5	95
23	GRay: A MASSIVELY PARALLEL GPU-BASED CODE FOR RAY TRACING IN RELATIVISTIC SPACETIMES. Astrophysical Journal, 2013, 777, 13.	4.5	90
24	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	8.3	67
25	PERSISTENT ASYMMETRIC STRUCTURE OF SAGITTARIUS A* ON EVENT HORIZON SCALES. Astrophysical Journal, 2016, 820, 90.	4.5	65
26	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. Nature Astronomy, 2021, 5, 1017-1028.	10.1	65
27	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. Astronomy and Astrophysics, 2020, 640, A69.	5.1	54
28	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. Astrophysical Journal, 2020, 901, 67.	4.5	51
29	Constraining parity violation in gravity with measurements of neutron-star moments of inertia. Physical Review D, 2010, 81, .	4.7	48
30	MASSES OF NEARBY SUPERMASSIVE BLACK HOLES WITH VERY LONG BASELINE INTERFEROMETRY. Astrophysical Journal, 2012, 758, 30.	4.5	43
31	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2022, 930, L19.	8.3	43
32	RADIO SYNCHROTRON EMISSION FROM A BOW SHOCK AROUND THE GAS CLOUD G2 HEADING TOWARD THE GALACTIC CENTER. Astrophysical Journal Letters, 2012, 757, L20.	8.3	41
33	A Parametric Model for the Shapes of Black Hole Shadows in Non-Kerr Spacetimes. Astrophysical Journal, 2020, 896, 7.	4.5	41
34	Realistic finite-temperature effects in neutron star merger simulations. Physical Review D, 2021, 104, .	4.7	34
35	BAYESIAN TECHNIQUES FOR COMPARING TIME-DEPENDENT GRMHD SIMULATIONS TO VARIABLE EVENT HORIZON TELESCOPE OBSERVATIONS. Astrophysical Journal, 2016, 832, 156.	4.5	26
36	Variability in GRMHD Simulations of Sgr : Implications for EHT Closure Phase Observations. Astrophysical Journal, 2017, 844, 35.	4.5	23

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37	EFFECTS OF SPOT SIZE ON NEUTRON-STAR RADIUS MEASUREMENTS FROM PULSE PROFILES. Astrophysical Journal, 2015, 811, 144.	4.5	20
38	GRMHD Simulations of Visibility Amplitude Variability for Event Horizon Telescope Images of Sgr A*. Astrophysical Journal, 2018, 856, 163.	4.5	16
39	The Lynx X-ray Surveyor. Nature Astronomy, 2018, 2, 608-609.	10.1	11
40	Brightness Asymmetry of Black Hole Images as a Probe of Observer Inclination. Astrophysical Journal, 2022, 924, 46.	4.5	8
41	MeqSilhouette v2: spectrally resolved polarimetric synthetic data generation for the event horizon telescope. Monthly Notices of the Royal Astronomical Society, 2022, 512, 490-504.	4.4	7
42	Topological data analysis of black hole images. Physical Review D, 2022, 106, .	4.7	3
43	Markov Chains for Horizons MARCH. I. Identifying Biases in Fitting Theoretical Models to Event Horizon Telescope Observations. Astrophysical Journal, 2022, 928, 55.	4.5	2