

Freek Roelofs

List of Publications by Year in Descending Order

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Version: 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

3,825
citations

20
h-index

42
g-index

42
ext. papers

6,385
ext. citations

6.3
avg, IF

3.52
L-index

#	Paper	IF	Citations
41	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022 , 925, 13	4.7	2
40	MeqSilhouette v2: spectrally resolved polarimetric synthetic data generation for the event horizon telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 512, 490-504	4.3	1
39	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
38	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
37	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022 , 930, L17	7.9	14
36	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
35	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
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	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022 , 930, L18	7.9	7
32	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
31	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
30	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
29	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021 , 910, L14	7.9	28
28	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
27	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021 , 911, L11	7.9	16
26	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021 , 912, 35	4.7	7
25	Black hole parameter estimation with synthetic very long baseline interferometry data from the ground and from space. <i>Astronomy and Astrophysics</i> , 2021 , 650, A56	5.1	4

24	Evaluation of New Submillimeter VLBI Sites for the Event Horizon Telescope. <i>Astrophysical Journal, Supplement Series</i> , 2021 , 253, 5	8	19
23	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021 , 910, L12	7.9	58
22	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 897, 139	4.7	24
21	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
20	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 901, 67	4.7	20
19	SYMBA: An end-to-end VLBI synthetic data generation pipeline. <i>Astronomy and Astrophysics</i> , 2020 , 636, A5	5.1	7
18	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
17	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020 , 897, 148	4.7	18
16	Simulations of imaging the event horizon of Sagittarius A* from space. <i>Astronomy and Astrophysics</i> , 2019 , 625, A124	5.1	30
15	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019 , 875, L3	7.9	267
14	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019 , 875, L2	7.9	325
13	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L4	7.9	411
12	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
11	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019 , 875, L5	7.9	429
10	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
9	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243, 26	8	96
8	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
7	Reconstructing Video of Time-Varying Sources From Radio Interferometric Measurements. <i>IEEE Transactions on Computational Imaging</i> , 2018 , 4, 512-527	4.5	16

6	On the prospects of imaging Sagittarius A* from space. <i>Proceedings of the International Astronomical Union</i> , 2018 , 14, 24-28	0.1	1
5	Quantifying Intrinsic Variability of Sagittarius A* Using Closure Phase Measurements of the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2017 , 847, 55	4.7	27
4	Dynamical Imaging with Interferometry. <i>Astrophysical Journal</i> , 2017 , 850, 172	4.7	40
3	IMAGING AN EVENT HORIZON: MITIGATION OF SOURCE VARIABILITY OF SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2016 , 817, 173	4.7	42
2	THEZA: TeraHertz Exploration and Zooming-in for Astrophysics. <i>Experimental Astronomy</i> , 1	1.3	4
1	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> ,	12.1	13