Jordy Davelaar

List of Publications by Citations

43 papers	3,767 citations	19 h-index	46 g-index
46 ext. papers	6,405 ext. citations	6.9 avg, IF	3.64 L-index

#	Paper	IF	Citations
43	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L1	7.9	1110
42	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L6	7.9	466
41	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. *Astrophysical Journal Letters*, **2019**, 875, L5	7.9	429
40	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L4	7.9	411
39	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. *Astrophysical Journal Letters*, **2019**, 875, L2	7.9	325
38	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. *Astrophysical Journal Letters*, **2019**, 875, L3	7.9	267
37	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. *Astrophysical Journal, Supplement Series*, **2019**, 243, 26	8	96
36	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. *Physical Review Letters*, **2020**, 125, 141104	7.4	74
35	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. *Astrophysical Journal Letters*, **2021**, 910, L13	7.9	70
34	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. *Astrophysical Journal Letters*, **2021**, 910, L12	7.9	58
33	Modeling non-thermal emission from the jet-launching region of M 87 with adaptive mesh refinement. *Astronomy and Astrophysics*, **2019**, 632, A2	5.1	37
32	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. *Astrophysical Journal Letters*, **2021**, 910, L14	7.9	28
31	Constrained transport and adaptive mesh refinement in the Black Hole Accretion Code. *Astronomy and Astrophysics*, **2019**, 629, A61	5.1	27
30	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. *Astrophysical Journal* , **2020**, 897, 139	4.7	24
29	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	7.9	23
28	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. *Astronomy and Astrophysics*, **2020**, 640, A69	5.1	21
27	Kink Instability: Evolution and Energy Dissipation in Relativistic Force-free Nonrotating Jets. *Astrophysical Journal*, **2019**, 884, 39	4.7	20

26	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. *Astrophysical Journal*, **2020**, 901, 67	4.7	20
25	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. *Astrophysical Journal Letters*, **2022**, 930, L14	7.9	20
24	Verification of Radiative Transfer Schemes for the EHT. *Astrophysical Journal*, **2020**, 897, 148	4.7	18
23	Constraints on black-hole charges with the 2017 EHT observations of M87*. *Physical Review D*, **2021** , 103,	4.9	18
22	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. *Astrophysical Journal Letters*, **2022**, 930, L16	7.9	18
21	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. *Astrophysical Journal Letters*, **2021**, 911, L11	7.9	16
20	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. *Astrophysical Journal Letters*, **2022**, 930, L13	7.9	16
19	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. *Astrophysical Journal Letters*, **2022**, 930, L15	7.9	16
18	Particle Acceleration in Kink-unstable Jets. *Astrophysical Journal Letters*, **2020**, 896, L31	7.9	15
17	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. *Astrophysical Journal Letters*, **2022**, 930, L17	7.9	14
16	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. *Nature Astronomy*,	12.1	13
15	Observing supermassive black holes in virtual reality. *Computational Astrophysics and Cosmology*, **2018**, 5,	18.9	12
14	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. *Astrophysical Journal Letters*, **2022**, 930, L19	7.9	11
13	Visibility of black hole shadows in low-luminosity AGN. *Monthly Notices of the Royal Astronomical Society*, **2021**, 501, 4722-4747	4.3	10
12	Deep Horizon: A machine learning network that recovers accreting black hole parameters. *Astronomy and Astrophysics*, **2020**, 636, A94	5.1	9
11	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. *Astrophysical Journal Letters*, **2022**, 930, L21	7.9	9
10	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. *Astrophysical Journal Letters*, **2022**, 930, L20	7.9	8
9	SYMBA: An end-to-end VLBI synthetic data generation pipeline. *Astronomy and Astrophysics*, **2020**, 636, A5	5.1	7

8	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. *Astrophysical Journal*, **2021**, 912, 35	4.7	7
7	Selective Dynamical Imaging of Interferometric Data. *Astrophysical Journal Letters*, **2022**, 930, L18	7.9	7
6	State-of-the-art energetic and morphological modelling of the launching site of the M87 jet. *Nature Astronomy*,	12.1	5
5	THEZA: TeraHertz Exploration and Zooming-in for Astrophysics. *Experimental Astronomy*,1	1.3	4
4	Black hole parameter estimation with synthetic very long baseline interferometry data from the ground and from space. *Astronomy and Astrophysics*, **2021**, 650, A56	5.1	4
3	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. *Astrophysical Journal*, **2022**, 925, 13	4.7	2
2	Fuzzball Shadows: Emergent Horizons from Microstructure. *Physical Review Letters*, **2021**, 127, 171601	7.4	1
1	MeqSilhouette v2: spectrally resolved polarimetric synthetic data generation for the event horizon telescope. *Monthly Notices of the Royal Astronomical Society*, **2022**, 512, 490-504	4.3	1