

Sheperd Doeleman

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

11,586
citations

66343

42
h-index

128289

60
g-index

60
all docs

60
docs citations

60
times ranked

3749
citing authors

#	ARTICLE	IF	CITATIONS
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L1.	8.3	2,264
2	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	8.3	897
3	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
5	Event-horizon-scale structure in the supermassive black hole candidate at the Galactic Centre. <i>Nature</i> , 2008, 455, 78-80.	27.8	699
6	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 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. <i>Astrophysical Journal Letters</i> , 2022, 930, L12.	8.3	568
8	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519
9	Jet-Launching Structure Resolved Near the Supermassive Black Hole in M87. <i>Science</i> , 2012, 338, 355-358.	12.6	336
10	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
11	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
12	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
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	Resolved magnetic-field structure and variability near the event horizon of Sagittarius A*. <i>Science</i> , 2015, 350, 1242-1245.	12.6	176
15	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	7.7	175
16	1.3 mm WAVELENGTH VLBI OF SAGITTARIUS A*: DETECTION OF TIME-VARIABLE EMISSION ON EVENT HORIZON SCALES. <i>Astrophysical Journal Letters</i> , 2011, 727, L36.	8.3	169
17	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
18	Universal interferometric signatures of a black hole's photon ring. <i>Science Advances</i> , 2020, 6, eaaz1310.	10.3	161

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19	HIGH-RESOLUTION LINEAR POLARIMETRIC IMAGING FOR THE EVENT HORIZON TELESCOPE. <i>Astrophysical Journal</i> , 2016, 829, 11.	4.5	159
20	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
21	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
22	DETECTING FLARING STRUCTURES IN SAGITTARIUS A* WITH HIGH-FREQUENCY VLBI. <i>Astrophysical Journal</i> , 2009, 695, 59-74.	4.5	130
23	Imaging the Schwarzschild-radius-scale Structure of M87 with the Event Horizon Telescope Using Sparse Modeling. <i>Astrophysical Journal</i> , 2017, 838, 1.	4.5	111
24	230 GHz VLBI OBSERVATIONS OF M87: EVENT HORIZON SCALE STRUCTURE DURING AN ENHANCED VERY-HIGH-ENERGY γ RAY STATE IN 2012. <i>Astrophysical Journal</i> , 2015, 807, 150.	4.5	98
25	MODELING SEVEN YEARS OF EVENT HORIZON TELESCOPE OBSERVATIONS WITH RADIATIVELY INEFFICIENT ACCRETION FLOW MODELS. <i>Astrophysical Journal</i> , 2016, 820, 137.	4.5	76
26	Superresolution Full-polarimetric Imaging for Radio Interferometry with Sparse Modeling. <i>Astronomical Journal</i> , 2017, 153, 159.	4.7	70
27	IMAGING AN EVENT HORIZON: MITIGATION OF SCATTERING TOWARD SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2014, 795, 134.	4.5	67
28	Detection of Intrinsic Source Structure at $\sim 1/3$ Schwarzschild Radii with Millimeter-VLBI Observations of SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2018, 859, 60.	4.5	67
29	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
30	Evaluation of New Submillimeter VLBI Sites for the Event Horizon Telescope. <i>Astrophysical Journal</i> , Supplement Series, 2021, 253, 5.	7.7	66
31	PERSISTENT ASYMMETRIC STRUCTURE OF SAGITTARIUS A* ON EVENT HORIZON SCALES. <i>Astrophysical Journal</i> , 2016, 820, 90.	4.5	65
32	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65
33	Observing and Imaging Active Galactic Nuclei with the Event Horizon Telescope. <i>Galaxies</i> , 2016, 4, 54.	3.0	63
34	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	8.3	56
35	Fringe detection methods for very long baseline arrays. <i>Astronomical Journal</i> , 1995, 109, 1391.	4.7	56
36	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	54

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37	Dynamical Imaging with Interferometry. <i>Astrophysical Journal</i> , 2017, 850, 172.	4.5	52
38	IMAGING AN EVENT HORIZON: MITIGATION OF SOURCE VARIABILITY OF SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2016, 817, 173.	4.5	51
39	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	4.5	51
40	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
41	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	4.5	44
42	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	4.5	43
43	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
44	Closure Statistics in Interferometric Data. <i>Astrophysical Journal</i> , 2020, 894, 31.	4.5	42
45	Metrics and Motivations for Earthâ€“Space VLBI: Time-resolving Sgr A* with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2019, 881, 62.	4.5	36
46	DETECTING CHANGING POLARIZATION STRUCTURES IN SAGITTARIUS A* WITH HIGH FREQUENCY VLBI. <i>Astrophysical Journal</i> , 2009, 706, 1353-1363.	4.5	35
47	EHT-HOPS Pipeline for Millimeter VLBI Data Reduction. <i>Astrophysical Journal</i> , 2019, 882, 23.	4.5	34
48	Adapting a Cryogenic Sapphire Oscillator for Very Long Baseline Interferometry. <i>Publications of the Astronomical Society of the Pacific</i> , 2011, 123, 582-595.	3.1	31
49	Toward Determining the Number of Observable Supermassive Black Hole Shadows. <i>Astrophysical Journal</i> , 2021, 923, 260.	4.5	31
50	FINE-SCALE STRUCTURE OF THE QUASAR 3C 279 MEASURED WITH 1.3 mm VERY LONG BASELINE INTERFEROMETRY. <i>Astrophysical Journal</i> , 2013, 772, 13.	4.5	30
51	Quantifying Intrinsic Variability of Sagittarius A Using Closure Phase Measurements of the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2017, 847, 55.	4.5	28
52	R2DBE: A Wideband Digital Backend for the Event Horizon Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 1226-1239.	3.1	26
53	Seeing the unseeable. <i>Nature Astronomy</i> , 2017, 1, 646-646.	10.1	23
54	Reconstructing Video of Time-Varying Sources From Radio Interferometric Measurements. <i>IEEE Transactions on Computational Imaging</i> , 2018, 4, 512-527.	4.4	22

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55	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
56	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
57	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
58	Light echos and coherent autocorrelations in a black hole spacetime. <i>Classical and Quantum Gravity</i> , 2021, 38, 125006.	4.0	13
59	Detection of Pulses from the Vela Pulsar at Millimeter Wavelengths with Phased ALMA. <i>Astrophysical Journal Letters</i> , 2019, 885, L10.	8.3	9
60	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6