

James M Moran

List of Publications by Year in descending order

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70
papers

13,518
citations

66343

42
h-index

144013

57
g-index

73
all docs

73
docs citations

73
times ranked

5186
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	Evidence for a black hole from high rotation velocities in a sub-parsec region of NGC4258. <i>Nature</i> , 1995, 373, 127-129.	27.8	967
3	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
4	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814
5	Interferometry and Synthesis in Radio Astronomy. <i>Astronomy and Astrophysics Library</i> , 2017, , .	0.1	810
6	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
7	Event-horizon-scale structure in the supermassive black hole candidate at the Galactic Centre. <i>Nature</i> , 2008, 455, 78-80.	27.8	699
8	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	8.3	618
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	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519
11	The Submillimeter Array. <i>Astrophysical Journal</i> , 2004, 616, L1-L6.	4.5	509
12	Jet-Launching Structure Resolved Near the Supermassive Black Hole in M87. <i>Science</i> , 2012, 338, 355-358.	12.6	336
13	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
14	An Unambiguous Detection of Faraday Rotation in Sagittarius A*. <i>Astrophysical Journal</i> , 2007, 654, L57-L60.	4.5	235
15	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
16	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
17	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
18	Resolved magnetic-field structure and variability near the event horizon of Sagittarius A*. <i>Science</i> , 2015, 350, 1242-1245.	12.6	176

#	ARTICLE	IF	CITATIONS
19	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	7.7	175
20	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
21	Interferometric Measurements of Variable 340 GHz Linear Polarization in Sagittarius A*. <i>Astrophysical Journal</i> , 2006, 640, 308-318.	4.5	165
22	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
23	Universal interferometric signatures of a black hole's photon ring. <i>Science Advances</i> , 2020, 6, eaaz1310.	10.3	161
24	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
25	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
26	RADIO AND MILLIMETER MONITORING OF $\text{Sgr} A^*$: SPECTRUM, VARIABILITY, AND CONSTRAINTS ON THE G2 ENCOUNTER. <i>Astrophysical Journal</i> , 2015, 802, 69.	4.5	99
27	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
28	The Scattering and Intrinsic Structure of Sagittarius A* at Radio Wavelengths. <i>Astrophysical Journal</i> , 2018, 865, 104.	4.5	67
29	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
30	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
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	ALMA Polarimetry of Sgr A*: Probing the Accretion Flow from the Event Horizon to the Bondi Radius. <i>Astrophysical Journal</i> , 2018, 868, 101.	4.5	57
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	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	4.5	51
38	Probing the Magnetic Field at Subparsec Radii in the Accretion Disk of NGC 4258. <i>Astrophysical Journal</i> , 2005, 626, 104-119.	4.5	50
39	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
40	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	4.5	44
41	Astronomical Masers. <i>Astronomy and Astrophysics Library</i> , 1988, , 255-294.	0.1	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	Accelerations of Water Masers in NGC 4258. <i>Astrophysical Journal</i> , 2000, 535, 73-89.	4.5	32
45	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
46	THE ROTATING MOLECULAR STRUCTURES AND THE IONIZED OUTFLOW ASSOCIATED WITH IRAS 16547â€“4247. <i>Astrophysical Journal</i> , 2009, 701, 974-983.	4.5	29
47	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
48	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
49	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
50	Light echos and coherent autocorrelations in a black hole spacetime. <i>Classical and Quantum Gravity</i> , 2021, 38, 125006.	4.0	13
51	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
52	H2O MegaMasers: RadioAstron success story. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 422-425.	0.0	5
53	The structure of the accretion disk in NGC 4258. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 391-398.	0.0	3
54	Highâ€“resolution maser studies of galactic nuclei. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000, 358, 797-810.	3.4	2

#	ARTICLE	IF	CITATIONS
55	Very-Long-Baseline Interferometry. , 0, , 304-382.		2
56	Radio Interference. , 0, , 613-626.		2
57	Masers and the Cosmic Distance Scale. Symposium - International Astronomical Union, 1988, 129, 169-174.	0.1	1
58	New Results from the SMA. Symposium - International Astronomical Union, 2004, 219, 63-74.	0.1	1
59	Equipping the Submillimeter Array for VLBI. , 2011, , .		1
60	Deconvolution, Adaptive Calibration, and Applications. , 0, , 426-466.		1
61	Interferometer Techniques for Astrometry and Geodesy. , 0, , 467-506.		1
62	Introductory Theory of Interferometry and Synthesis Imaging. , 0, , 50-67.		1
63	Digital Signal Processing. , 0, , 254-303.		1
64	The Super Luminous Maser Source in the Nucleus of NGC 3079. Symposium - International Astronomical Union, 1988, 129, 233-234.	0.1	0
65	VLBI Observations of Ammonia (9,6) Masers. Symposium - International Astronomical Union, 1992, 150, 345-346.	0.1	0
66	The SAO Submillimeter Wavelength Array. Symposium - International Astronomical Union, 1994, 158, 27-35.	0.1	0
67	Potential impacts of WRC-2019 agenda items on scientific services. , 2017, , .		0
68	The Structure of the Radio Recombination Line Maser Emission in the Envelope of MWC349A. Proceedings of the International Astronomical Union, 2017, 13, 235-238.	0.0	0
69	Patrick Thaddeus (1932â€“2017). , 2021, 53, .		0
70	Arthur E. Lilley (1928â€“2020). , 2021, 53, .		0