

Michael D Johnson

List of Publications by Year in descending order

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100
papers

12,137
citations

46918

47
h-index

33814

99
g-index

100
all docs

100
docs citations

100
times ranked

4142
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.	3.0	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.	3.0	897
3	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	3.0	814
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	3.0	806
5	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	3.0	618
6	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.	3.0	568
7	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	3.0	519
8	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	3.0	297
9	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	3.0	215
10	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	3.0	215
11	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020, 125, 141104.	2.9	190
12	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.	3.0	187
13	Resolved magnetic-field structure and variability near the event horizon of Sagittarius A*. <i>Science</i> , 2015, 350, 1242-1245.	6.0	176
14	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	3.0	175
15	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	3.0	163
16	Universal interferometric signatures of a black hole's photon ring. <i>Science Advances</i> , 2020, 6, eaaz1310.	4.7	161
17	HIGH-RESOLUTION LINEAR POLARIMETRIC IMAGING FOR THE EVENT HORIZON TELESCOPE. <i>Astrophysical Journal</i> , 2016, 829, 11.	1.6	159
18	Interferometric Imaging Directly with Closure Phases and Closure Amplitudes. <i>Astrophysical Journal</i> , 2018, 857, 23.	1.6	159

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19	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	3.0	142
20	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	3.0	137
21	Testing General Relativity with the Shadow Size of Sgr A^* . <i>Physical Review Letters</i> , 2016, 116, 031101.	2.9	135
22	ARCONS: A 2024 Pixel Optical through Near-IR Cryogenic Imaging Spectrophotometer. <i>Publications of the Astronomical Society of the Pacific</i> , 2013, 125, 1348-1361.	1.0	133
23	The Shadow of a Spherically Accreting Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 885, L33.	3.0	131
24	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021, 103, .	1.6	126
25	Two-temperature, Magnetically Arrested Disc simulations of the jet from the supermassive black hole in M87. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 2873-2895.	1.6	105
26	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.	1.6	98
27	The role of electron heating physics in images and variability of the Galactic Centre black hole Sagittarius A*. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 5209-5229.	1.6	94
28	The Size, Shape, and Scattering of Sagittarius A* at 86 GHz: First VLBI with ALMA. <i>Astrophysical Journal</i> , 2019, 871, 30.	1.6	81
29	MODELING SEVEN YEARS OF EVENT HORIZON TELESCOPE OBSERVATIONS WITH RADIATIVELY INEFFICIENT ACCRETION FLOW MODELS. <i>Astrophysical Journal</i> , 2016, 820, 137.	1.6	76
30	Observing the Inner Shadow of a Black Hole: A Direct View of the Event Horizon. <i>Astrophysical Journal</i> , 2021, 918, 6.	1.6	72
31	IMAGING AN EVENT HORIZON: MITIGATION OF SCATTERING TOWARD SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2014, 795, 134.	1.6	67
32	THEORY AND SIMULATIONS OF REFRACTIVE SUBSTRUCTURE IN RESOLVED SCATTER-BROADENED IMAGES. <i>Astrophysical Journal</i> , 2015, 805, 180.	1.6	67
33	The Scattering and Intrinsic Structure of Sagittarius A* at Radio Wavelengths. <i>Astrophysical Journal</i> , 2018, 865, 104.	1.6	67
34	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.	1.6	67
35	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	3.0	67
36	Probing the Magnetic Field Structure in on Black Hole Horizon Scales with Polarized Radiative Transfer Simulations. <i>Astrophysical Journal</i> , 2017, 837, 180.	1.6	66

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37	Universal polarimetric signatures of the black hole photon ring. <i>Physical Review D</i> , 2020, 101, .	1.6	66
38	Evaluation of New Submillimeter VLBI Sites for the Event Horizon Telescope. <i>Astrophysical Journal, Supplement Series</i> , 2021, 253, 5.	3.0	66
39	PERSISTENT ASYMMETRIC STRUCTURE OF SAGITTARIUS A* ON EVENT HORIZON SCALES. <i>Astrophysical Journal</i> , 2016, 820, 90.	1.6	65
40	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	4.2	65
41	Observing and Imaging Active Galactic Nuclei with the Event Horizon Telescope. <i>Galaxies</i> , 2016, 4, 54.	1.1	63
42	ALMA Polarimetry of Sgr A*: Probing the Accretion Flow from the Event Horizon to the Bondi Radius. <i>Astrophysical Journal</i> , 2018, 868, 101.	1.6	57
43	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	3.0	56
44	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020, 640, A69.	2.1	54
45	Dynamical Imaging with Interferometry. <i>Astrophysical Journal</i> , 2017, 850, 172.	1.6	52
46	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	1.6	51
47	DISCOVERY OF SUBSTRUCTURE IN THE SCATTER-BROADENED IMAGE OF SGR A*. <i>Astrophysical Journal Letters</i> , 2014, 794, L14.	3.0	48
48	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	1.6	47
49	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	1.6	44
50	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	1.6	43
51	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	3.0	43
52	Closure Statistics in Interferometric Data. <i>Astrophysical Journal</i> , 2020, 894, 31.	1.6	42
53	PROBING THE PARSEC-SCALE ACCRETION FLOW OF 3C 84 WITH MILLIMETER WAVELENGTH POLARIMETRY. <i>Astrophysical Journal</i> , 2014, 797, 66.	1.6	40
54	Photon ring autocorrelations. <i>Physical Review D</i> , 2021, 103, .	1.6	40

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55	PSR B0329+54: substructure in the scatter-broadened image discovered with RadioAstron on baselines up to 330000km. Monthly Notices of the Royal Astronomical Society, 2017, 465, 978-985.	1.6	39
56	INTERSTELLAR SCINTILLATION AND THE RADIO COUNTERPART OF THE FAST RADIO BURST FRB 150418. Astrophysical Journal Letters, 2016, 824, L3.	3.0	38
57	Metrics and Motivations for Earth-Space VLBI: Time-resolving Sgr A* with the Event Horizon Telescope. Astrophysical Journal, 2019, 881, 62.	1.6	36
58	STOCHASTIC OPTICS: A SCATTERING MITIGATION FRAMEWORK FOR RADIO INTERFEROMETRIC IMAGING. Astrophysical Journal, 2016, 833, 74.	1.6	35
59	EHT-HOPS Pipeline for Millimeter VLBI Data Reduction. Astrophysical Journal, 2019, 882, 23.	1.6	34
60	UNBOUND DEBRIS STREAMS AND REMNANTS RESULTING FROM THE TIDAL DISRUPTIONS OF STARS BY SUPERMASSIVE BLACK HOLES. Astrophysical Journal, 2016, 822, 48.	1.6	33
61	THE INTRINSIC SHAPE OF SAGITTARIUS A* AT 3.5 mm WAVELENGTH. Astrophysical Journal, 2016, 824, 40.	1.6	31
62	Toward Determining the Number of Observable Supermassive Black Hole Shadows. Astrophysical Journal, 2021, 923, 260.	1.6	31
63	EXTREME BRIGHTNESS TEMPERATURES AND REFRACTIVE SUBSTRUCTURE IN 3C 273 WITH RADIOASTRON. Astrophysical Journal Letters, 2016, 820, L10.	3.0	30
64	Decomposing the internal faraday rotation of black hole accretion flows. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5468-5488.	1.6	29
65	Quantifying Intrinsic Variability of Sagittarius A Using Closure Phase Measurements of the Event Horizon Telescope. Astrophysical Journal, 2017, 847, 55.	1.6	28
66	EXCESS OPTICAL ENHANCEMENT OBSERVED WITH ARCONS FOR EARLY CRAB GIANT PULSES. Astrophysical Journal Letters, 2013, 779, L12.	3.0	27
67	Computational Imaging for VLBI Image Reconstruction. , 2016, , .		27
68	Polarized image of equatorial emission in the Kerr geometry. Physical Review D, 2021, 104, .	1.6	27
69	Testing General Relativity with the Black Hole Shadow Size and Asymmetry of Sagittarius A*: Limitations from Interstellar Scattering. Astrophysical Journal, 2019, 870, 6.	1.6	25
70	RELATIVE ASTROMETRY OF COMPACT FLARING STRUCTURES IN Sgr A* WITH POLARIMETRIC VERY LONG BASELINE INTERFEROMETRY. Astrophysical Journal, 2014, 794, 150.	1.6	24
71	RADIOASTRON STUDIES OF THE NEARBY, TURBULENT INTERSTELLAR PLASMA WITH THE LONGEST SPACE-GROUND INTERFEROMETER BASELINE. Astrophysical Journal, 2014, 786, 115.	1.6	24
72	THE OPTICS OF REFRACTIVE SUBSTRUCTURE. Astrophysical Journal, 2016, 826, 170.	1.6	24

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73	PSR B0329+54: STATISTICS OF SUBSTRUCTURE DISCOVERED WITHIN THE SCATTERING DISK ON RADIOASTRON BASELINES OF UP TO 235,000 km. <i>Astrophysical Journal</i> , 2016, 822, 96.	1.6	22
74	Reconstructing Video of Time-Varying Sources From Radio Interferometric Measurements. <i>IEEE Transactions on Computational Imaging</i> , 2018, 4, 512-527.	2.6	22
75	On the Approximation of the Black Hole Shadow with a Simple Polar Curve. <i>Astrophysical Journal</i> , 2020, 900, 77.	1.6	22
76	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	3.0	21
77	CONSTRAINING THE VELA PULSAR'S RADIO EMISSION REGION USING NYQUIST-LIMITED SCINTILLATION STATISTICS. <i>Astrophysical Journal</i> , 2012, 758, 8.	1.6	20
78	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	3.0	20
79	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	3.0	20
80	EFFECTS OF INTERMITTENT EMISSION: NOISE INVENTORY FOR THE SCINTILLATING PULSAR B0834+06. <i>Astrophysical Journal</i> , 2011, 733, 52.	1.6	16
81	The science case and challenges of space-borne sub-millimeter interferometry. <i>Acta Astronautica</i> , 2022, 196, 314-333.	1.7	15
82	NOISE IN THE CROSS-POWER SPECTRUM OF THE VELA PULSAR. <i>Astrophysical Journal</i> , 2012, 758, 6.	1.6	13
83	The Role of Adaptive Ray Tracing in Analyzing Black Hole Structure. <i>Astrophysical Journal</i> , 2021, 912, 39.	1.6	13
84	Light echos and coherent autocorrelations in a black hole spacetime. <i>Classical and Quantum Gravity</i> , 2021, 38, 125006.	1.5	13
85	An 86 GHz Search for Pulsars in the Galactic Center with the Atacama Large Millimeter / submillimeter Array. <i>Astrophysical Journal</i> , 2021, 914, 30.	1.6	13
86	The Intrinsic Structure of Sagittarius A* at 1.3 cm and 7 mm. <i>Astrophysical Journal</i> , 2022, 926, 108.	1.6	13
87	An Unexpectedly Small Emission Region Size Inferred from Strong High-frequency Diffractive Scintillation in GRB 161219B. <i>Astrophysical Journal</i> , 2019, 870, 67.	1.6	12
88	NOISE AND SIGNAL FOR SPECTRA OF INTERMITTENT NOISELIKE EMISSION. <i>Astrophysical Journal</i> , 2011, 733, 51.	1.6	11
89	ULTRA-HIGH-RESOLUTION INTENSITY STATISTICS OF A SCINTILLATING SOURCE. <i>Astrophysical Journal</i> , 2012, 755, 179.	1.6	10
90	SIZE OF THE VELA PULSAR'S EMISSION REGION AT 18 cm WAVELENGTH. <i>Astrophysical Journal</i> , 2012, 758, 7.	1.6	10

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91	Detection of Pulses from the Vela Pulsar at Millimeter Wavelengths with Phased ALMA. <i>Astrophysical Journal Letters</i> , 2019, 885, L10.	3.0	9
92	VLBI imaging of black holes via second moment regularization. <i>Astronomy and Astrophysics</i> , 2019, 629, A32.	2.1	8
93	Density of states of helium droplets. <i>Physical Review B</i> , 2007, 76, .	1.1	7
94	MEASURING THE DIRECTION AND ANGULAR VELOCITY OF A BLACK HOLE ACCRETION DISK VIA LAGGED INTERFEROMETRIC COVARIANCE. <i>Astrophysical Journal</i> , 2015, 813, 132.	1.6	7
95	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	1.6	6
96	INTERFEROMETRIC VISIBILITY OF A SCINTILLATING SOURCE: STATISTICS AT THE NYQUIST LIMIT. <i>Astrophysical Journal</i> , 2013, 768, 170.	1.6	5
97	First Space-VLBI Observations of Sagittarius A*. <i>Astrophysical Journal Letters</i> , 2021, 922, L28.	3.0	5
98	Prospects for Wideband VLBI Correlation in the Cloud. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 124501.	1.0	3
99	OPTIMAL CORRELATION ESTIMATORS FOR QUANTIZED SIGNALS. <i>Astrophysical Journal</i> , 2013, 765, 135.	1.6	2
100	VLBA Observations of Strong Anisotropic Radio Scattering Toward the Orion Nebula. <i>Astronomical Journal</i> , 2018, 155, 218.	1.9	1