

Maciek Wielgus

List of Publications by Year in descending order

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49
papers

9,444
citations

136740

32
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48
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docs citations

49
times ranked

3274
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	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	3.0	175
14	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
15	Universal interferometric signatures of a black hole's photon ring. <i>Science Advances</i> , 2020, 6, eaaz1310.	4.7	161
16	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
17	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
18	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021, 103, .	1.6	126

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19	Radiative, two-temperature simulations of low-luminosity black hole accretion flows in general relativity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 705-725.	1.6	100
20	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	3.0	67
21	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	4.2	65
22	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	3.0	56
23	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
24	Reflection-asymmetric wormholes and their double shadows. <i>Physical Review D</i> , 2020, 102, .	1.6	51
25	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	1.6	51
26	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	1.6	47
27	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	1.6	44
28	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	1.6	43
29	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
30	Closure Statistics in Interferometric Data. <i>Astrophysical Journal</i> , 2020, 894, 31.	1.6	42
31	Photon rings of spherically symmetric black holes and robust tests of non-Kerr metrics. <i>Physical Review D</i> , 2021, 104, .	1.6	36
32	EHT-HOPS Pipeline for Millimeter VLBI Data Reduction. <i>Astrophysical Journal</i> , 2019, 882, 23.	1.6	34
33	Puffy Accretion Disks: Sub-Eddington, Optically Thick, and Stable. <i>Astrophysical Journal Letters</i> , 2019, 884, L37.	3.0	31
34	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	3.0	21
35	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
36	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

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37	Persistent Non-Gaussian Structure in the Image of Sagittarius A* at 86 GHz. <i>Astrophysical Journal</i> , 2021, 915, 99.	1.6	19
38	The science case and challenges of space-borne sub-millimeter interferometry. <i>Acta Astronautica</i> , 2022, 196, 314-333.	1.7	15
39	Levitating atmospheres of Eddington-luminosity neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3420-3428.	1.6	14
40	Light echos and coherent autocorrelations in a black hole spacetime. <i>Classical and Quantum Gravity</i> , 2021, 38, 125006.	1.5	13
41	The Intrinsic Structure of Sagittarius A* at 1.3 cm and 7 mm. <i>Astrophysical Journal</i> , 2022, 926, 108.	1.6	13
42	Observational properties of puffy discs: radiative GRMHD spectra of mildly sub-Eddington accretion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 780-789.	1.6	12
43	Optically thin outbursts of rotating neutron stars cannot be spherical. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 4937-4941.	1.6	11
44	Elliptical Accretion Disk as a Model for Tidal Disruption Events. <i>Astrophysical Journal</i> , 2021, 908, 179.	1.6	11
45	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.	1.6	7
46	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	1.6	6
47	Three-dimensional general relativistic Poynting-Robertson effect. IV. Slowly rotating and nonspherical quadrupolar massive source. <i>Physical Review D</i> , 2021, 103, .	1.6	3
48	Eddington capture sphere around luminous relativistic stars. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 131-134.	0.0	1
49	Observing AGN sources with the Event Horizon Telescope. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 257-257.	0.0	0