# Dominic W Pesce

## List of Publications by Year in Descending Order



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| 55 papers | 4,174 citations | 21 h-index | 55 g-index |
| 55 ext. papers | 7,055 ext. citations | 6.3 avg, IF | 4.7 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 55 | The Variability of the Black Hole Image in M87 at the Dynamical Timescale. *Astrophysical Journal*, **2022**, 925, 13 | 4.7 | 2 |
| 54 | Measuring Spin from Relative Photon-ring Sizes. *Astrophysical Journal*, **2022**, 927, 6 | 4.7 | 0 |
| 53 | Cosmology Intertwined: A Review of the Particle Physics, Astrophysics, and Cosmology Associated with the Cosmological Tensions and Anomalies. *Journal of High Energy Astrophysics*, **2022**, 34, 49-49 | 2.5 | 17 |
| 52 | 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 |
| 51 | Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. *Astrophysical Journal Letters*, **2022**, 930, L21 | 7.9 | 9 |
| 50 | First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. *Astrophysical Journal Letters*, **2022**, 930, L17 | 7.9 | 14 |
| 49 | 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 |
| 48 | First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. *Astrophysical Journal Letters*, **2022**, 930, L15 | 7.9 | 16 |
| 47 | 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 |
| 46 | Selective Dynamical Imaging of Interferometric Data. *Astrophysical Journal Letters*, **2022**, 930, L18 | 7.9 | 7 |
| 45 | Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. *Astrophysical Journal Letters*, **2022**, 930, L19 | 7.9 | 11 |
| 44 | A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. *Astrophysical Journal Letters*, **2022**, 930, L20 | 7.9 | 8 |
| 43 | 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 |
| 42 | A Restless Supermassive Black Hole in the Galaxy J0437+2456. *Astrophysical Journal*, **2021**, 909, 141 | 4.7 | 1 |
| 41 | Polarimetric Properties of Event Horizon Telescope Targets from ALMA. *Astrophysical Journal Letters*, **2021**, 910, L14 | 7.9 | 28 |
| 40 | A D-term Modeling Code (DMC) for Simultaneous Calibration and Full-Stokes Imaging of Very Long Baseline Interferometric Data. *Astronomical Journal*, **2021**, 161, 178 | 4.9 | 7 |
| 39 | First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. *Astrophysical Journal Letters*, **2021**, 910, L13 | 7.9 | 70 |

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| 38 | Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. *Astrophysical Journal Letters*, **2021**, 911, L11 | 7.9 | 16 |
| 37 | New views of black holes from computational imaging. *Nature Computational Science*, **2021**, 1, 300-303 | | 1 |
| 36 | Constraints on black-hole charges with the 2017 EHT observations of M87*. *Physical Review D*, **2021**, 103, | 4.9 | 18 |
| 35 | The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. *Astrophysical Journal*, **2021**, 912, 35 | 4.7 | 7 |
| 34 | First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. *Astrophysical Journal Letters*, **2021**, 910, L12 | 7.9 | 58 |
| 33 | Origins space telescope: from first light to life. *Experimental Astronomy*, **2021**, 51, 595 | 1.3 | 3 |
| 32 | Toward Determining the Number of Observable Supermassive Black Hole Shadows. *Astrophysical Journal*, **2021**, 923, 260 | 4.7 | 3 |
| 31 | Closure Statistics in Interferometric Data. *Astrophysical Journal*, **2020**, 894, 31 | 4.7 | 27 |
| 30 | Universal interferometric signatures of a black hole's photon ring. *Science Advances*, **2020**, 6, eaaz1310 | 14.3 | 68 |
| 29 | The Megamaser Cosmology Project. XI. A Geometric Distance to CGCG 074-064. *Astrophysical Journal*, **2020**, 890, 118 | 4.7 | 6 |
| 28 | The Megamaser Cosmology Project. XIII. Combined Hubble Constant Constraints. *Astrophysical Journal Letters*, **2020**, 891, L1 | 7.9 | 116 |
| 27 | THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. *Astrophysical Journal*, **2020**, 897, 139 | 4.7 | 24 |
| 26 | 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 |
| 25 | A More Efficient Search for H2O Megamaser Galaxies: The Power of X-Ray and Mid-infrared Photometry. *Astrophysical Journal*, **2020**, 892, 18 | 4.7 | 4 |
| 24 | Hybrid Very Long Baseline Interferometry Imaging and Modeling with themis. *Astrophysical Journal*, **2020**, 898, 9 | 4.7 | 11 |
| 23 | On the Approximation of the Black Hole Shadow with a Simple Polar Curve. *Astrophysical Journal*, **2020**, 900, 77 | 4.7 | 10 |
| 22 | Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. *Astrophysical Journal*, **2020**, 901, 67 | 4.7 | 20 |
| 21 | Closure Traces: Novel Calibration-insensitive Quantities for Radio Astronomy. *Astrophysical Journal*, **2020**, 904, 126 | 4.7 | 5 |

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| 20 | SYMBA: An end-to-end VLBI synthetic data generation pipeline. *Astronomy and Astrophysics*, **2020**, 636, A5 | 5.1 | 7 |
| 19 | Verification of Radiative Transfer Schemes for the EHT. *Astrophysical Journal*, **2020**, 897, 148 | 4.7 | 18 |
| 18 | First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. *Astrophysical Journal Letters*, **2019**, 875, L3 | 7.9 | 267 |
| 17 | First M87 Event Horizon Telescope Results. II. Array and Instrumentation. *Astrophysical Journal Letters*, **2019**, 875, L2 | 7.9 | 325 |
| 16 | First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L4 | 7.9 | 411 |
| 15 | First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L1 | 7.9 | 1110 |
| 14 | First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. *Astrophysical Journal Letters*, **2019**, 875, L5 | 7.9 | 429 |
| 13 | 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 |
| 12 | The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. *Astrophysical Journal, Supplement Series*, **2019**, 243, 26 | 8 | 96 |
| 11 | An Improved Distance to NGC 4258 and Its Implications for the Hubble Constant. *Astrophysical Journal Letters*, **2019**, 886, L27 | 7.9 | 99 |
| 10 | Measuring Supermassive Black Hole Peculiar Motion Using H2O Megamasers. *Astrophysical Journal*, **2018**, 863, 149 | 4.7 | 9 |
| 9 | The Megamaser Cosmology Project. X. High-resolution Maps and Mass Constraints for SMBHs. *Astrophysical Journal*, **2018**, 854, 124 | 4.7 | 16 |
| 8 | Enhancing the H2O Megamaser Detection Rate Using Optical and Mid-infrared Photometry. *Astrophysical Journal*, **2018**, 860, 169 | 4.7 | 10 |
| 7 | THE MEGAMASER COSMOLOGY PROJECT. IX. BLACK HOLE MASSES FOR THREE MASER GALAXIES. *Astrophysical Journal*, **2017**, 834, 52 | 4.7 | 31 |
| 6 | SUBMILLIMETER H2O MEGAMASERS IN NGC 4945 AND THE CIRCINUS GALAXY. *Astrophysical Journal*, **2016**, 827, 68 | 4.7 | 10 |
| 5 | THE MEGAMASER COSMOLOGY PROJECT. VIII. A GEOMETRIC DISTANCE TO NGC 5765b. *Astrophysical Journal*, **2016**, 817, 128 | 4.7 | 54 |
| 4 | THE MEGAMASER COSMOLOGY PROJECT. VI. OBSERVATIONS OF NGC 6323. *Astrophysical Journal*, **2015**, 800, 26 | 4.7 | 59 |
| 3 | THE MEGAMASER COSMOLOGY PROJECT. VII. INVESTIGATING DISK PHYSICS USING SPECTRAL MONITORING OBSERVATIONS. *Astrophysical Journal*, **2015**, 810, 65 | 4.7 | 20 |

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| 2 | THE DESTRUCTION OF THE CIRCUMSTELLAR RING OF SN 1987A. *Astrophysical Journal Letters*, **2015** , 806, L19 | 7.9 | 39 |
| 1 | Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. *Nature Astronomy*, | 12.1 | 13 |