Sascha Trippe

List of Publications by Citations

63 papers	4,005 citations	21 h-index	63 g-index
64 ext. papers	6,609 ext. citations	5.9 avg, IF	3.95 L-index

#	Paper	IF	Citations
63	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L1	7.9	1110
62	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
61	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. *Astrophysical Journal Letters*, **2019**, 875, L5	7.9	429
60	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L4	7.9	411
59	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. *Astrophysical Journal Letters*, **2019**, 875, L2	7.9	325
58	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. *Astrophysical Journal Letters*, **2019**, 875, L3	7.9	267
57	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. *Astrophysical Journal, Supplement Series*, **2019**, 243, 26	8	96
56	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. *Physical Review Letters*, **2020**, 125, 141104	7.4	74
55	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. *Astrophysical Journal Letters*, **2021**, 910, L13	7.9	70
54	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. *Astrophysical Journal Letters*, **2021**, 910, L12	7.9	58
53	Pilot KaVA monitoring on the M87 jet: Confirming the inner jet structure and superluminal motions at sub-pc scales. *Publication of the Astronomical Society of Japan*, **2017**, 69,	3.2	44
52	Faraday Rotation in the Jet of M87 inside the Bondi Radius: Indication of Winds from Hot Accretion Flows Confining the Relativistic Jet. *Astrophysical Journal*, **2019**, 871, 257	4.7	35
51	VLBI observations of bright AGN jets with the KVN and VERA Array (KaVA): Evaluation of imaging capability. *Publication of the Astronomical Society of Japan*, **2014**, 66, 103	3.2	32
50	POLARIZATION AND POLARIMETRY: A REVIEW. *Journal of the Korean Astronomical Society*, **2014**, 47, 15-39		30
49	Kinematics of the M87 Jet in the Collimation Zone: Gradual Acceleration and Velocity Stratification. *Astrophysical Journal*, **2019**, 887, 147	4.7	29
48	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. *Astrophysical Journal Letters*, **2021**, 910, L14	7.9	28
47	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. *Astrophysical Journal* , **2020**, 897, 139	4.7	24

46	KVN observations reveal multiple γ-ray emission regions in 3C 84?. *Monthly Notices of the Royal Astronomical Society*, **2018**, 475, 368-378	4.3	23
45	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
44	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
43	INTERFEROMETRIC MONITORING OF GAMMA-RAY BRIGHT AGNs. I. THE RESULTS OF SINGLE-EPOCH MULTIFREQUENCY OBSERVATIONS. *Astrophysical Journal, Supplement Series*, **2016**, 227, 8	8	21
42	RADIO VARIABILITY AND RANDOM WALK NOISE PROPERTIES OF FOUR BLAZARS. *Astrophysical Journal*, **2014**, 785, 76	4.7	20
41	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. *Astrophysical Journal*, **2020**, 901, 67	4.7	20
40	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
39	Verification of Radiative Transfer Schemes for the EHT. *Astrophysical Journal*, **2020**, 897, 148	4.7	18
38	Constraints on black-hole charges with the 2017 EHT observations of M87*. *Physical Review D*, **2021** , 103,	4.9	18
37	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
36	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. *Astrophysical Journal Letters*, **2021**, 911, L11	7.9	16
35	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
34	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. *Astrophysical Journal Letters*, **2022**, 930, L15	7.9	16
33	INTERFEROMETRIC MONITORING OF GAMMA-RAY BRIGHT ACTIVE GALACTIC NUCLEI II: FREQUENCY PHASE TRANSFER. *Journal of the Korean Astronomical Society*, **2015**, 48, 237-255		15
32	Revealing the Nature of Blazar Radio Cores through Multifrequency Polarization Observations with the Korean VLBI Network. *Astrophysical Journal*, **2018**, 860, 112	4.7	14
31	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. *Astrophysical Journal Letters*, **2022**, 930, L17	7.9	14
30	Exploring the Variability of the Flat Spectrum Radio Source 1633+382. I. Phenomenology of the Light Curves. *Astrophysical Journal*, **2018**, 852, 30	4.7	13
29	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. *Nature Astronomy*,	12.1	13

28	Jet kinematics of the quasar 4C+21.35 from observations with the KaVA very long baseline interferometry array. *Monthly Notices of the Royal Astronomical Society*, **2019**, 486, 2412-2421	4.3	11
27	THE LONG-TERM CENTIMETER VARIABILITY OF ACTIVE GALACTIC NUCLEI: A NEW RELATION BETWEEN VARIABILITY TIMESCALE AND ACCRETION RATE. *Astrophysical Journal*, **2017**, 834, 157	4.7	11
26	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. *Astrophysical Journal Letters*, **2022**, 930, L19	7.9	11
25	The Power of Simultaneous Multi-frequency Observations for mm-VLBI: Beyond Frequency Phase Transfer. *Astronomical Journal*, **2018**, 155, 26	4.9	10
24	Exploring the Variability of the Flat-spectrum Radio Source 1633+382. II. Physical Properties. *Astrophysical Journal*, **2018**, 859, 128	4.7	10
23	Ejection of Double Knots from the Radio Core of PKS 1510−089 during the Strong Gamma-Ray Flares in 2015. *Astrophysical Journal*, **2019**, 877, 106	4.7	10
22	The "Missing Mass Problem" in Astronomy and the Need for a Modified Law of Gravity. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2014**, 69, 173-187	1.4	10
21	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. *Astrophysical Journal Letters*, **2022**, 930, L21	7.9	9
20	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. *Astrophysical Journal Letters*, **2022**, 930, L20	7.9	8
19	FIRST DETECTION OF 350 MICRON POLARIZATION FROM A RADIO-LOUD AGN. *Astrophysical Journal Letters*, **2015**, 808, L26	7.9	7
18	PAGAN II: THE EVOLUTION OF AGN JETS ON SUB-PARSEC SCALES. *Journal of the Korean Astronomical Society*, **2015**, 48, 299-311		7
17	An active galactic nucleus recognition model based on deep neural network. *Monthly Notices of the Royal Astronomical Society*, **2021**, 501, 3951-3961	4.3	7
16	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. *Astrophysical Journal*, **2021**, 912, 35	4.7	7
15	Selective Dynamical Imaging of Interferometric Data. *Astrophysical Journal Letters*, **2022**, 930, L18	7.9	7
14	Exploring the nature of the 2016 γ-ray emission in the blazar 1749+096. *Monthly Notices of the Royal Astronomical Society*, **2018**, 480, 2324-2333	4.3	6
13	East Asian VLBI Network observations of active galactic nuclei jets: imaging with KaVA+Tianma+Nanshan. *Research in Astronomy and Astrophysics*, **2021**, 21, 205	1.5	6
12	AGN BROAD LINE REGIONS SCALE WITH BOLOMETRIC LUMINOSITY. *Journal of the Korean Astronomical Society*, **2015**, 48, 203-206		5
11	Investigating the connection between γ-ray activity and the relativistic jet in 3C 273 during 2015–2019. *Astronomy and Astrophysics*, **2020**, 636, A62	5.1	3

10	The Intrinsic Structure of Sagittarius A* at 1.3 cm and 7 mm. *Astrophysical Journal*, **2022**, 926, 108	4.7	3
9	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. *Astrophysical Journal*, **2022**, 925, 13	4.7	2
8	A Detailed Kinematic Study of 3C 84 and Its Connection to Rays. *Astrophysical Journal*, **2021**, 914, 43	4.7	2
7	PRIMORDIAL GRAVITATIONAL WAVES AND RESCATTERED ELECTROMAGNETIC RADIATION IN THE COSMIC MICROWAVE BACKGROUND. *Astrophysical Journal*, **2016**, 830, 161	4.7	1
6	The graviton picture a Bohr model for gravitation on galactic scales?. *Canadian Journal of Physics*, **2015**, 93, 213-216	1.1	1
5	PAGAN I: MULTI-FREQUENCY POLARIMETRY OF AGN JETS WITH KVN. *Journal of the Korean Astronomical Society*, **2015**, 48, 285-298		1
4	INVESTIGATING PLASMA-PHYSICAL PROPERTIES OF JETS IN NEARBY RADIO-BRIGHT AGN WITH KVN AND KaVA. *Publications of the Korean Astronomical Society*, **2015**, 30, 453-455		1
3	Radio and Ray Activity in the Jet of the Blazar S5 0716+714. *Astrophysical Journal*, **2022**, 925, 64	4.7	0
2	Sirius: a prototype astronomical intensity interferometer using avalanche photodiodes in linear mode. *Monthly Notices of the Royal Astronomical Society*, **2020**, 500, 5630-5638	4.3	0
1	RADIO VARIABILITY AND RANDOM WALK NOISE PROPERTIES OF FOUR BLAZARS. *Publications of the Korean Astronomical Society*, **2015**, 30, 433-437		