RESEARCH & PUBLICATIONS

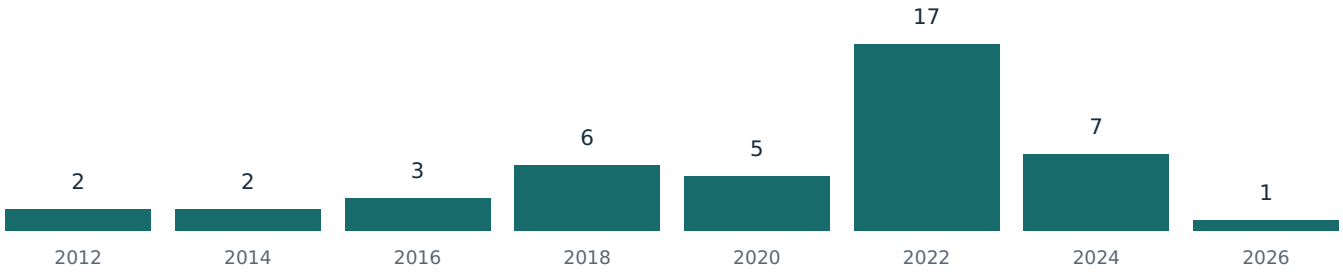
Shoko Koyama

A publication record at a glance

43	9,740	25
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 2-year periods



MOST CITED IN THIS LIST

First Sagittarius a* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way — 1,978

2022 Astrophysical Journal Letters

First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole — 1,635

2019 Astrophysical Journal Letters

First M87 Event Horizon Telescope Results. II. Array and Instrumentation — 1,057

2019 Astrophysical Journal Letters

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Ordered by publication year, newest first

2026

01 **Probing Jet Base Emission of M87* With the 2021 Event Horizon Telescope Observations**

Astronomy and Astrophysics · 706, A27

https://exaly.com/article/207534072

6 citations

2025

02 **The Variability of the Black Hole Image in M87 at the Dynamical Timescale**

Astrophysical Journal · 925, 13

https://exaly.com/article/124974697

16 citations

03 **Millimeter Light Curves of Sagittarius a* Observed During the 2017 Event Horizon Telescope Campaign**

Astrophysical Journal Letters · 930, L19

https://exaly.com/article/145321328

109 citations

04 **Resolving the Inner Parsec of the Blazar J1924–2914 With the Event Horizon Telescope**

Astrophysical Journal · 934, 145

https://exaly.com/article/150138203

52 citations

2024

05 **The Persistent Shadow of the Supermassive Black Hole of M 87**

Astronomy and Astrophysics · 681, A79

https://exaly.com/article/175392967

117 citations

06 **TELAMON: Effelsberg Monitoring of AGN Jets With Very-High-Energy Astroparticle Emission - I. Program Description and Sample Characterization**

Astronomy and Astrophysics · 684, A11

https://exaly.com/article/175745408

12 citations

07 **First Sagittarius a* Event Horizon Telescope Results. VII. Polarization of the Ring**

Astrophysical Journal Letters · 964, L25

https://exaly.com/article/177678627

139 citations

08 **Global Mapping of HCl on Mars by IRTF/iSHELL**

Planetary Science Journal · 5, 158

https://exaly.com/article/187411984

7 citations

Ordered by publication year, newest first

2023

09 **Millimeter/Submillimeter VLBI With a Next Generation Large Radio Telescope in the Atacama Desert** — 8 citations
Galaxies · 11, 1
https://exaly.com/article/157913157

10 **A Ring-Like Accretion Structure in M87 Connecting Its Black Hole and Jet** — 162 citations
Nature · 616, 686-690
https://exaly.com/article/162736878

11 **Spectral Analysis of a Parsec-Scale Jet in M 87: Observational Constraint on the Magnetic Field Strengths in the Jet** — 25 citations
Astronomy and Astrophysics · 673, A159
https://exaly.com/article/164562528

12 **The Greenland Telescope—Construction, Commissioning, and Operations in Pituffik** — 11 citations
Publications of the Astronomical Society of the Pacific · 135, 095001
https://exaly.com/article/167555600

13 **First M87 Event Horizon Telescope Results. IX. Detection of Near-Horizon Circular Polarization** — 104 citations
Astrophysical Journal Letters · 957, L20
https://exaly.com/article/172497507

2022

14 **The Intrinsic Structure of Sagittarius a* at 1.3 cm and 7 mm** — 27 citations
Astrophysical Journal · 926, 108
https://exaly.com/article/134465554

15 **Herschel Discovery of Far-Infrared Emission From the Hotspot D in the Radio Galaxy Cygnus A** — 5 citations
Monthly Notices of the Royal Astronomical Society · 512, 5995-6006
https://exaly.com/article/134921734

16 **Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes With Mm-VLBI** — 38 citations
Astrophysical Journal Letters · 930, L21
https://exaly.com/article/145240744

17 **First Sagittarius a* Event Horizon Telescope Results. VI. Testing the Black Hole Metric** — 691 citations
Astrophysical Journal Letters · 930, L17
https://exaly.com/article/145240864

Ordered by publication year, newest first

2022 / continued

18 First Sagittarius a* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration — 386 citations
Astrophysical Journal Letters · 930, L13
https://exaly.com/article/145244655

19 First Sagittarius a* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass — 381 citations
Astrophysical Journal Letters · 930, L15
https://exaly.com/article/145262795

20 First Sagittarius a* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way — 1,978 citations
Astrophysical Journal Letters · 930, L12
https://exaly.com/article/145287875

21 Selective Dynamical Imaging of Interferometric Data — 32 citations
Astrophysical Journal Letters · 930, L18
https://exaly.com/article/145314210

22 A Universal Power-Law Prescription for Variability From Synthetic Images of Black Hole Accretion Flows — 41 citations
Astrophysical Journal Letters · 930, L20
https://exaly.com/article/145328902

23 First Sagittarius a* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole — 565 citations
Astrophysical Journal Letters · 930, L16
https://exaly.com/article/145355179

24 Unraveling the Innermost Jet Structure of OJ 287 With the First GMVA + ALMA Observations — 30 citations
Astrophysical Journal · 932, 72
https://exaly.com/article/148388847

25 Collimation of the Relativistic Jet in the Quasar 3C 273 — 36 citations
Astrophysical Journal · 940, 65
https://exaly.com/article/157830898

2021

26 First M87 Event Horizon Telescope Results. VII. Polarization of the Ring — 475 citations
Astrophysical Journal Letters · 910, L12
https://exaly.com/article/79384868

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2021 / continued

27 Polarimetric Properties of Event Horizon Telescope Targets From ALMA — 118 citations
Astrophysical Journal Letters · 910, L14
https://exaly.com/article/79655220

28 Broadband Multi-Wavelength Properties of M87 During the 2017 Event Horizon Telescope Campaign — 119 citations
Astrophysical Journal Letters · 911, L11
https://exaly.com/article/80210173

2020

29 Monitoring the Morphology of M87* in 2009–2017 With the Event Horizon Telescope — 69 citations
Astrophysical Journal · 901, 67
https://exaly.com/article/89228100

30 Herschel SPIRE Discovery of Far-Infrared Excess Synchrotron Emission From the West Hot Spot of the Radio Galaxy Pictor A — 11 citations
Astrophysical Journal · 899, 17
https://exaly.com/article/118353361

2019

31 The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project — 345 citations
Astrophysical Journal, Supplement Series · 243, 26
https://exaly.com/article/72011687

32 Stable Radio Core of the Blazar Mrk 501 During High-Energy Active State in 2012 — 5 citations
Astrophysical Journal · 884, 132
https://exaly.com/article/72465076

33 Jet Kinematics of the Quasar 4C+21.35 From Observations With the KaVA Very Long Baseline Interferometry Array — 19 citations
Monthly Notices of the Royal Astronomical Society · 486, 2412-2421
https://exaly.com/article/73576923

34 First M87 Event Horizon Telescope Results. III. Data Processing and Calibration — 851 citations
Astrophysical Journal Letters · 875, L3
https://exaly.com/article/73592013

35 First M87 Event Horizon Telescope Results. II. Array and Instrumentation — 1,057 citations
Astrophysical Journal Letters · 875, L2
https://exaly.com/article/73592014

Ordered by publication year, newest first

2019 / continued

36 First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole

1,635 citations

Astrophysical Journal Letters · 875, L6

https://exaly.com/article/73592020

2017

37 Mid-Infrared Excess From the West Hot Spot of the Radio Galaxy Pictor a Unveiled by WISE

15 citations

Astrophysical Journal · 850, 193

https://exaly.com/article/67933117

2016

38 Exploring the Magnetic Field Configuration in BL Lac Using GMVA

3 citations

Galaxies · 4, 32

https://exaly.com/article/63238604

39 VLBI Follow-Up Observations for the Large X-Ray Flares of Mrk 421

0 citations

Journal unavailable · 178, 101

https://exaly.com/article/109188545

2015

40 Discovery of a Wandering Radio Jet Base After a Large X-Ray Flare in the Blazar Markarian 421

14 citations

Astrophysical Journal Letters · 807, L14

https://exaly.com/article/60390140

41 X-Ray Measurement of Electron and Magnetic-Field Energy Densities in the West Lobe of the Giant Radio Galaxy 3C 236

10 citations

Publication of the Astronomical Society of Japan

https://exaly.com/article/62472171

2013

42 VLBI Imagings of a Kilo-Parsec Knot in 3C 380

4 citations

Publication of the Astronomical Society of Japan

https://exaly.com/article/56347447

Ordered by publication year, newest first

2012

43 **Possible Detection of Apparent Superluminal Inward Motion in Markarian 421 After the Giant X-Ray Flare in 2010 February**

12 citations

Astrophysical Journal · 759, 84

https://exaly.com/article/52985821

End of list · 43 articles. Citation counts use Exaly's peer-reviewed cohort.