

# Shiro Ikeda

## List of Publications by Year in descending order

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98  
papers

10,159  
citations

126907

33  
h-index

71685

76  
g-index

99  
all docs

99  
docs citations

99  
times ranked

4546  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
2	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	8.3	163
3	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	8.3	20
4	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
5	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	8.3	142
6	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	8.3	137
7	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.	8.3	568
8	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
9	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	8.3	43
10	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	8.3	20
11	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.	8.3	187
12	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
13	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	8.3	297
14	Noise reduction for weak lensing mass mapping: an application of generative adversarial networks to Subaru Hyper Suprime-Cam first-year data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1825-1839.	4.4	15
15	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	8.3	56
16	Extracting common signal components from the X-ray and optical light curves of GX 339A: New view for anti-correlation. <i>Publication of the Astronomical Society of Japan</i> , 2021, 73, 716-727.	2.5	0
17	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021, 103, .	4.7	126
18	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	4.5	43

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19	Three-dimensional Reconstruction of Weak-lensing Mass Maps with a Sparsity Prior. I. Cluster Detection. <i>Astrophysical Journal</i> , 2021, 916, 67.	4.5	2
20	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65
21	A Data-scientific Noise-removal Method for Efficient Submillimeter Spectroscopy With Single-dish Telescopes. <i>Astronomical Journal</i> , 2021, 162, 111.	4.7	4
22	ALMA Super-resolution Imaging of T Tau: r = 12 au Gap in the Compact Dust Disk around T Tau N. <i>Astrophysical Journal</i> , 2021, 923, 121.	4.5	6
23	An optical search for transients lasting a few seconds. <i>Publication of the Astronomical Society of Japan</i> , 2020, 72, .	2.5	5
24	Relationship between radar cross section and optical magnitude based on radar and optical simultaneous observations of faint meteors. <i>Planetary and Space Science</i> , 2020, 194, 105011.	1.7	4
25	Feature selection for classification of blazars based on optical photometric and polarimetric time-series data. <i>Publication of the Astronomical Society of Japan</i> , 2020, 72, .	2.5	1
26	Super-resolution Imaging of the Protoplanetary Disk HD 142527 Using Sparse Modeling. <i>Astrophysical Journal</i> , 2020, 895, 84.	4.5	7
27	Amino-acid selective isotope labeling enables simultaneous overlapping signal decomposition and information extraction from NMR spectra. <i>Journal of Biomolecular NMR</i> , 2020, 74, 125-137.	2.8	2
28	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020, 640, A69.	5.1	54
29	SYMBA: An end-to-end VLBI synthetic data generation pipeline. <i>Astronomy and Astrophysics</i> , 2020, 636, A5.	5.1	18
30	Search for Alignment of Disk Orientations in Nearby Star-forming Regions: Lupus, Taurus, Upper Scorpius, $\rho$ -Ophiuchi, and Orion. <i>Astrophysical Journal</i> , 2020, 899, 55.	4.5	7
31	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	7.7	175
32	Concept for an X-ray telescope system with an angular resolution booster. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	0
33	Denoising weak lensing mass maps with deep learning. <i>Physical Review D</i> , 2019, 100, .	4.7	17
34	The Hyper Suprime-Cam SSP transient survey in COSMOS: Overview. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	22
35	An image reconstruction method for an X-ray telescope system with an angular resolution booster. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	2
36	Luminosity function of faint sporadic meteors measured with a wide-field CMOS mosaic camera Tomo-e PM. <i>Planetary and Space Science</i> , 2019, 165, 281-292.	1.7	3

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37	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519
38	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	8.3	618
39	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
40	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L1.	8.3	2,264
41	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814
42	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	8.3	897
43	New Constraint on the Atmosphere of (50000) Quaoar from a Stellar Occultation. <i>Astronomical Journal</i> , 2019, 158, 236.	4.7	10
44	Superresolution Interferometric Imaging with Sparse Modeling Using Total Squared Variation: Application to Imaging the Black Hole Shadow. <i>Astrophysical Journal</i> , 2018, 858, 56.	4.5	43
45	Exhaustive Search for Sparse Variable Selection in Linear Regression. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 044802.	1.6	35
46	“Slow-scanning” in Ground-based Mid-infrared Observations. <i>Astrophysical Journal</i> , 2018, 857, 37.	4.5	6
47	The Tomo-e Gozen wide field CMOS camera for the Kiso Schmidt telescope. , 2018, , .		22
48	Evaluation of large pixel CMOS image sensors for the Tomo-e Gozen wide field camera. , 2018, , .		5
49	New method of eclipse mapping and an application to HT Cas in the 2017 superoutburst. , 2018, , .		0
50	DATA COMPRESSION FOR THE TOMO-e GOZEN USING LOW-RANK MATRIX APPROXIMATION. <i>Astrophysical Journal</i> , 2017, 835, 1.	4.5	19
51	Imaging the Schwarzschild-radius-scale Structure of M87 with the Event Horizon Telescope Using Sparse Modeling. <i>Astrophysical Journal</i> , 2017, 838, 1.	4.5	111
52	Superresolution Full-polarimetric Imaging for Radio Interferometry with Sparse Modeling. <i>Astronomical Journal</i> , 2017, 153, 159.	4.7	70
53	Accelerating cross-validation with total variation and its application to super-resolution imaging. <i>PLoS ONE</i> , 2017, 12, e0188012.	2.5	5
54	Protein NMR Structure Refinement based on Bayesian Inference. <i>Journal of Physics: Conference Series</i> , 2016, 699, 012005.	0.4	10

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55	Data-driven approach to Type Ia supernovae: variable selection on the peak luminosity and clustering in visual analytics. <i>Journal of Physics: Conference Series</i> , 2016, 699, 012009.	0.4	2
56	Rate-Distortion Functions for Gamma-Type Sources Under Absolute-Log Distortion Measure. <i>IEEE Transactions on Information Theory</i> , 2016, 62, 5496-5502.	2.4	2
57	Development of a prototype of the Tomo-e Gozen wide-field CMOS camera. <i>Proceedings of SPIE</i> , 2016, , .	0.8	12
58	Improved in-cell structure determination of proteins at near-physiological concentration. <i>Scientific Reports</i> , 2016, 6, 38312.	3.3	43
59	An asymmetric logistic regression model for ecological data. <i>Methods in Ecology and Evolution</i> , 2016, 7, 249-260.	5.2	31
60	Development of a real-time data processing system for a prototype of the Tomo-e Gozen wide field CMOS camera. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
61	Sparse Modeling for Astronomical Data Analysis. <i>Journal of Physics: Conference Series</i> , 2016, 699, 012008.	0.4	0
62	PRECL: A new method for interferometry imaging from closure phase. <i>Publication of the Astronomical Society of Japan</i> , 2016, 68, .	2.5	17
63	Imaging black holes with sparse modeling. <i>Journal of Physics: Conference Series</i> , 2016, 699, 012006.	0.4	8
64	Risk assessment of radioisotope contamination for aquatic living resources in and around Japan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3838-3843.	7.1	35
65	Variable selection for modeling the absolute magnitude at maximum of Type Ia supernovae. <i>Publication of the Astronomical Society of Japan</i> , 2015, 67, .	2.5	13
66	Sparsely extracting stored movements to construct interfaces for humanoid end-effector control. , 2015, , .		0
67	Entropic risk minimization for nonparametric estimation of mixing distributions. <i>Machine Learning</i> , 2015, 99, 119-136.	5.4	3
68	Super-resolution imaging with radio interferometry using sparse modeling. <i>Publication of the Astronomical Society of Japan</i> , 2014, 66, .	2.5	73
69	Bin mode estimation methods for Compton camera imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 760, 46-56.	1.6	10
70	Compton camera imaging. , 2013, , .		1
71	Rate-distortion function for gamma sources under absolute-log distortion measure. , 2013, , .		4
72	Introduction to the issue on differential geometry in signal processing. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2013, 7, 573-575.	10.8	5

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73	Phase retrieval from single biomolecule diffraction pattern. Optics Express, 2012, 20, 3375.	3.4	12
74	Channel Capacity and Optimization of Probability Measure. Ieice Ess Fundamentals Review, 2012, 5, 230-238.	0.1	0
75	Editorial - Neural Networks and Learning Systems Come Together. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1-6.	11.3	6
76	An introductory review of information theory in the context of computational neuroscience. Biological Cybernetics, 2011, 105, 55-70.	1.3	26
77	Combining binary machines for multi-class: Statistical model and parameter estimation. Journal of Physics: Conference Series, 2010, 233, 012006.	0.4	0
78	Motor planning as an optimization of command representation. , 2009, , .		4
79	Spiking neuron channel. , 2009, , .		2
80	Capacity of a Single Spiking Neuron Channel. Neural Computation, 2009, 21, 1714-1748.	2.2	39
81	Capacity of a single spiking neuron. Journal of Physics: Conference Series, 2009, 197, 012014.	0.4	0
82	Channel Estimation and Code Word Inference for Mobile Digital Satellite Broadcasting Reception. IEICE Transactions on Communications, 2008, E91-B, 3886-3898.	0.7	0
83	Improving Mobile Reception of Digital Satellite Broadcasting. , 2007, , .		0
84	Motor planning and sparse motor command representation. Neurocomputing, 2007, 70, 1748-1752.	5.9	4
85	Information geometry for turbo decoding. Systems and Computers in Japan, 2005, 36, 79-87.	0.2	2
86	Stochastic Reasoning, Free Energy, and Information Geometry. Neural Computation, 2004, 16, 1779-1810.	2.2	48
87	Information Geometry of Turbo and Low-Density Parity-Check Codes. IEEE Transactions on Information Theory, 2004, 50, 1097-1114.	2.4	43
88	Combined approach of array processing and independent component analysis for blind separation of acoustic signals. IEEE Transactions on Speech and Audio Processing, 2003, 11, 204-215.	1.5	97
89	An approach to blind source separation based on temporal structure of speech signals. Neurocomputing, 2001, 41, 1-24.	5.9	502
90	Independent component analysis for noisy data " MEG data analysis. Neural Networks, 2000, 13, 1063-1074.	5.9	109

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91	ICA for noisy neurobiological data. , 2000, , .		2
92	ICA on Noisy Data: A Factor Analysis Approach. Perspectives in Neural Computing, 2000, , 201-215.	0.1	12
93	A robot organizing purposive behavior by itself. , 0, , .		3
94	A self-organizing system with cell-specialization. , 0, , .		2
95	A combined approach of array processing and independent component analysis for blind separation of acoustic signals. , 0, , .		30
96	Information geometry of turbo codes. , 0, , .		2
97	Information geometry of turbo and LDPC codes. , 0, , .		1
98	Machine-learning selection of optical transients in the Subaru/Hyper Suprime-Cam survey. Publication of the Astronomical Society of Japan, 0, , .	2.5	28