Yosuke Mizuno

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115 papers	5,613 citations	32 h-index	74 g-index
135 ext. papers	8,556 ext. citations	4.7 avg, IF	5.13 L-index

#	Paper	IF	Citations
115	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. *Astrophysical Journal*, **2022**, 925, 13	4.7	2
114	GRMHD Simulations and Modeling for Jet Formation and Acceleration Region in AGNs. *Universe*, **2022**, 8, 85	2.5	0
113	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
112	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. *Astrophysical Journal Letters*, **2022**, 930, L21	7.9	9
111	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. *Astrophysical Journal Letters*, **2022**, 930, L17	7.9	14
110	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
109	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. *Astrophysical Journal Letters*, **2022**, 930, L15	7.9	16
108	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
107	Selective Dynamical Imaging of Interferometric Data. *Astrophysical Journal Letters*, **2022**, 930, L18	7.9	7
106	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. *Astrophysical Journal Letters*, **2022**, 930, L19	7.9	11
105	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. *Astrophysical Journal Letters*, **2022**, 930, L20	7.9	8
104	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
103	Accreting Black Hole Binaries **2021**, 59-67		
102	Visibility of black hole shadows in low-luminosity AGN. *Monthly Notices of the Royal Astronomical Society*, **2021**, 501, 4722-4747	4.3	10
101	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. *Astrophysical Journal Letters*, **2021**, 910, L14	7.9	28
100	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. *Astrophysical Journal Letters*, **2021**, 910, L13	7.9	70
99	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. *Astrophysical Journal Letters*, **2021**, 911, L11	7.9	16

98	Constraints on black-hole charges with the 2017 EHT observations of M87*. *Physical Review D*, **2021**, 103,	4.9	18
97	Fast Magnetic Reconnection Structures in Poynting Flux-dominated Jets. *Astrophysical Journal*, **2021**, 912, 109	4.7	4
96	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. *Astrophysical Journal*, **2021**, 912, 35	4.7	7
95	Black hole parameter estimation with synthetic very long baseline interferometry data from the ground and from space. *Astronomy and Astrophysics*, **2021**, 650, A56	5.1	4
94	A Detailed Kinematic Study of 3C 84 and Its Connection to Rays. *Astrophysical Journal*, **2021**, 914, 43	4.7	2
93	Comparison of the ion-to-electron temperature ratio prescription: GRMHD simulations with electron thermodynamics. *Monthly Notices of the Royal Astronomical Society*, **2021**, 506, 741-758	4.3	13
92	Flares in the Galactic Centre . Orbiting flux tubes in magnetically arrested black hole accretion discs. *Monthly Notices of the Royal Astronomical Society*, **2021**, 502, 2023-2032	4.3	21
91	Long-term Simulations of Magnetized Disks and Jets Around Supermassive Black-hole Binaries in General Relativity **2021**, 23-31		
90	Particle Acceleration by Relativistic Magnetic Reconnection Driven by Kink Instability Turbulence in Poynting Flux Dominated Jets. *Astrophysical Journal*, **2021**, 908, 193	4.7	8
89	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. *Astrophysical Journal Letters*, **2021**, 910, L12	7.9	58
88	PIC methods in astrophysics: simulations of relativistic jets and kinetic physics in astrophysical systems. *Living Reviews in Solar Physics*, **2021**, 7, 1	12.2	3
87	Plasmoid formation in global GRMHD simulations and AGN flares. *Monthly Notices of the Royal Astronomical Society*, **2020**, 495, 1549-1565	4.3	32
86	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. *Astrophysical Journal*, **2020**, 897, 139	4.7	24
85	How to tell an accreting boson star from a black hole. *Monthly Notices of the Royal Astronomical Society*, **2020**, 497, 521-535	4.3	31
84	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
83	Rapid particle acceleration due to recollimation shocks and turbulent magnetic fields in injected jets with helical magnetic fields. *Monthly Notices of the Royal Astronomical Society*, **2020**, 493, 2652-2658	4.3	10
82	Monitoring the Morphology of M87* in 2009 2017 with the Event Horizon Telescope. *Astrophysical Journal*, **2020**, 901, 67	4.7	20
81	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

80	Verification of Radiative Transfer Schemes for the EHT. *Astrophysical Journal*, **2020**, 897, 148	4.7	18
79	Deep Horizon: A machine learning network that recovers accreting black hole parameters. *Astronomy and Astrophysics*, **2020**, 636, A94	5.1	9
78	Relativistic Jet Simulations of the Weibel Instability in the Slab Model to Cylindrical Jets with Helical Magnetic Fields. *Galaxies*, **2019**, 7, 29	2	7
77	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. *Astrophysical Journal Letters*, **2019**, 875, L3	7.9	267
76	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. *Astrophysical Journal Letters*, **2019**, 875, L2	7.9	325
75	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L4	7.9	411
74	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. *Astrophysical Journal Letters*, **2019**, 875, L1	7.9	1110
73	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. *Astrophysical Journal Letters*, **2019**, 875, L5	7.9	429
72	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
71	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. *Astrophysical Journal, Supplement Series*, **2019**, 243, 26	8	96
70	Using evolutionary algorithms to model relativistic jets. *Astronomy and Astrophysics*, **2019**, 629, A4	5.1	15
69	Constrained transport and adaptive mesh refinement in the Black Hole Accretion Code. *Astronomy and Astrophysics*, **2019**, 629, A61	5.1	27
68	Modeling non-thermal emission from the jet-launching region of M 87 with adaptive mesh refinement. *Astronomy and Astrophysics*, **2019**, 632, A2	5.1	37
67	The current ability to test theories of gravity with black hole shadows. *Nature Astronomy*, **2018**, 2, 585-590	12.1	115
66	Jet-torus connection in radio galaxies. *Astronomy and Astrophysics*, **2018**, 609, A80	5.1	16
65	Particle acceleration and the origin of the very high energy emission around black holes and relativistic jets. *Proceedings of the International Astronomical Union*, **2018**, 14, 13-18	0.1	
64	Modelling the polarised emission from black holes on event horizon-scales. *Proceedings of the International Astronomical Union*, **2018**, 14, 9-12	0.1	9
63	The Black Hole Accretion Code: adaptive mesh refinement and constrained transport. *Journal of Physics: Conference Series*, **2018**, 1031, 012008	0.3	3

62	Test-particle dynamics in general spherically symmetric black hole spacetimes. *Physical Review D*, **2018**, 97,	4.9	33
61	The black hole accretion code. *Computational Astrophysics and Cosmology*, **2017**, 4,	18.9	103
60	Radiative Signatures of Parsec-Scale Magnetised Jets. *Galaxies*, **2017**, 5, 73	2	5
59	Observational signatures of spherically-symmetric black hole spacetimes. *Journal of Physics: Conference Series*, **2017**, 942, 012007	0.3	1
58	Observable Emission Features of Black Hole GRMHD Jets on Event Horizon Scales. *Astrophysical Journal*, **2017**, 845, 160	4.7	14
57	BlackHoleCam: Fundamental physics of the galactic center. *International Journal of Modern Physics D*, **2017**, 26, 1730001	2.2	130
56	Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields: Dependence on Jet Radius. *Galaxies*, **2017**, 5, 58	2	9
55	Simulations of recoiling black holes: adaptive mesh refinement and radiative transfer. *Astronomy and Astrophysics*, **2017**, 598, A38	5.1	6
54	New method for shadow calculations: Application to parametrized axisymmetric black holes. *Physical Review D*, **2016**, 94,	4.9	162
53	Particle-in-cell Simulations of Global Relativistic Jets with Helical Magnetic Fields. *Proceedings of the International Astronomical Union*, **2016**, 12, 199-202	0.1	4
52	SPATIAL GROWTH OF CURRENT-DRIVEN INSTABILITY IN RELATIVISTIC ROTATING JETS AND THE SEARCH FOR MAGNETIC RECONNECTION. *Astrophysical Journal*, **2016**, 824, 48	4.7	43
51	PROBING THE INNERMOST REGIONS OF AGN JETS AND THEIR MAGNETIC FIELDS WITHRADIOASTRON. I. IMAGING BL LACERTAE AT 21 as RESOLUTION. *Astrophysical Journal*, **2016**, 817, 96	4.7	89
50	Magnetic Dissipation in Relativistic Jets. *Galaxies*, **2016**, 4, 40	2	3
49	Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields. *Galaxies*, **2016**, 4, 38	2	11
48	EVOLUTION OF GLOBAL RELATIVISTIC JETS: COLLIMATIONS AND EXPANSION WITH kKHI AND THE WEIBEL INSTABILITY. *Astrophysical Journal*, **2016**, 820, 94	4.7	31
47	STEADY GENERAL RELATIVISTIC MAGNETOHYDRODYNAMIC INFLOW/OUTFLOW SOLUTION ALONG LARGE-SCALE MAGNETIC FIELDS THAT THREAD A ROTATING BLACK HOLE. *Astrophysical Journal*, **2015**, 801, 56	4.7	25
46	RECOLLIMATION SHOCKS IN MAGNETIZED RELATIVISTIC JETS. *Astrophysical Journal*, **2015**, 809, 38	4.7	60
45	JET MOTION, INTERNAL WORKING SURFACES, AND NESTED SHELLS IN THE PROTOSTELLAR SYSTEM HH 212. *Astrophysical Journal*, **2015**, 805, 186	4.7	40

44	Studies of Relativistic Jets in Active Galactic Nuclei with SKA **2015**,		4
43	Magnetic field amplification and saturation in turbulence behind a relativistic shock. *Monthly Notices of the Royal Astronomical Society*, **2014**, 439, 3490-3503	4.3	33
42	MAGNETIC FIELD GENERATION IN CORE-SHEATH JETS VIA THE KINETIC KELVIN-HELMHOLTZ INSTABILITY. *Astrophysical Journal*, **2014**, 793, 60	4.7	23
41	CURRENT DRIVEN KINK INSTABILITY IN A MAGNETICALLY DOMINATED ROTATING RELATIVISTIC JET. *International Journal of Modern Physics Conference Series*, **2014**, 28, 1460201	0.7	1
40	SPATIAL GROWTH OF THE CURRENT-DRIVEN INSTABILITY IN RELATIVISTIC JETS. *Astrophysical Journal*, **2014**, 784, 167	4.7	38
39	Magnetic Field Amplification and Saturation by Turbulence in A Relativistic Shock Propagating through An Inhomogeneous Medium. *EAS Publications Series*, **2013**, 61, 173-175	0.2	
38	THE ROLE OF THE EQUATION OF STATE IN RESISTIVE RELATIVISTIC MAGNETOHYDRODYNAMICS. *Astrophysical Journal, Supplement Series*, **2013**, 205, 7	8	17
37	Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection. *EAS Publications Series*, **2013**, 61, 177-179	0.2	3
36	Current-Driven Kink Instability in Magnetically Dominated Rotating Relativistic Jet. *EPJ Web of Conferences*, **2013**, 61, 02004	0.3	
35	Magnetic field generation in a jet-sheath plasma via the kinetic Kelvin-Helmholtz instability. *Annales Geophysicae*, **2013**, 31, 1535-1541	2	18
34	Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection. *EPJ Web of Conferences*, **2013**, 61, 02003	0.3	4
33	RELAXATION OF PULSAR WIND NEBULA VIA CURRENT-DRIVEN KINK INSTABILITY. *International Journal of Modern Physics Conference Series*, **2012**, 08, 368-371	0.7	
32	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY. III. ROTATING RELATIVISTIC JETS. *Astrophysical Journal*, **2012**, 757, 16	4.7	68
31	CURRENT DRIVEN INSTABILITY OF A SUB-ALFVNIC RELATIVISTIC JET. *International Journal of Modern Physics Conference Series*, **2012**, 08, 340-343	0.7	
30	MAGNETIC FIELD AMPLIFICATION BY RELATIVISTIC SHOCKS IN AN INHOMOGENEOUS MEDIUM. *International Journal of Modern Physics Conference Series*, **2012**, 08, 364-367	0.7	
29	Radiation from accelerated particles in shocks. *Proceedings of the International Astronomical Union*, **2011**, 7, 371-372	0.1	
28	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY. II. RELAXATION OF PULSAR WIND NEBULA. *Astrophysical Journal*, **2011**, 728, 90	4.7	47
27	MAGNETIC-FIELD AMPLIFICATION BY TURBULENCE IN A RELATIVISTIC SHOCK PROPAGATING THROUGH AN INHOMOGENEOUS MEDIUM. *Astrophysical Journal*, **2011**, 726, 62	4.7	45

26	Radiation from relativistic shocks in turbulent magnetic fields. *Advances in Space Research*, **2011**, 47, 1434-1440	2.4	17
25	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY WITH A SUB-ALFVNIC JET: TEMPORAL PROPERTIES. *Astrophysical Journal*, **2011**, 734, 19	4.7	46
24	Simulation of Relativistic Shocks and Associated Self-consistent Radiation **2011**,		1
23	CURRENT-DRIVEN KINK INSTABILITY IN RELATIVISTIC JETS. *International Journal of Modern Physics D*, **2010**, 19, 683-688	2.2	
22	MAGNETOHYDRODYNAMIC EFFECTS IN RELATIVISTIC EJECTA. *International Journal of Modern Physics D*, **2010**, 19, 991-996	2.2	
21	RADIATION FROM RELATIVISTIC SHOCKS WITH TURBULENT MAGNETIC FIELDS. *International Journal of Modern Physics D*, **2010**, 19, 715-721	2.2	9
20	Current-Driven Kink Instability in Relativistic Jets. *Proceedings of the International Astronomical Union*, **2010**, 6, 476-478	0.1	
19	Magnetic field amplification by relativistic shocks in a turbulent medium. *Proceedings of the International Astronomical Union*, **2010**, 6, 445-448	0.1	
18	Simulation of relativistic shocks and associated radiation from turbulent magnetic fields. *Proceedings of the International Astronomical Union*, **2010**, 6, 354-357	0.1	1
17	Radiation from relativistic jets in turbulent magnetic fields **2009**,		2
16	WEIBEL INSTABILITY AND ASSOCIATED STRONG FIELDS IN A FULLY THREE-DIMENSIONAL SIMULATION OF A RELATIVISTIC SHOCK. *Astrophysical Journal*, **2009**, 698, L10-L13	4.7	87
15	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY. I. INSTABILITY OF A STATIC COLUMN. *Astrophysical Journal*, **2009**, 700, 684-693	4.7	75
14	MAGNETOHYDRODYNAMIC EFFECTS IN PROPAGATING RELATIVISTIC JETS: REVERSE SHOCK AND MAGNETIC ACCELERATION. *Astrophysical Journal*, **2009**, 690, L47-L51	4.7	26
13	Stability of Magnetized Spine-Sheath Relativistic Jets. *Thirty Years of Astronomical Discovery With UKIRT*, **2009**, 589-591	0.3	
12	PARTICLE ACCELERATION, MAGNETIC FIELD GENERATION, AND ASSOCIATED EMISSION IN COLLISIONLESS RELATIVISTIC JETS. *International Journal of Modern Physics D*, **2008**, 17, 1761-1767	2.2	11
11	A Magnetohydrodynamic Boost for Relativistic Jets. *Astrophysical Journal*, **2008**, 672, 72-82	4.7	31
10	New Relativistic Particle-In-Cell Simulation Studies of Prompt and Early Afterglows from GRBs **2008** ,		5
9	3-D Rpic Simulations of Relativistic Jets: Particle Acceleration, Magnetic Field Generation, and Emission. *Astrophysics and Space Science*, **2007**, 307, 319-323	1.6	11

8	GRMHD/RMHD simulations & stability of magnetized spine-sheath relativistic jets. *Astrophysics and Space Science*, **2007**, 311, 281-286	1.6	23
7	Simulation study of magnetic fields generated by the electromagnetic filamentation instability. *AIP Conference Proceedings*, **2007**,	0	3
6	Three-dimensional Relativistic Magnetohydrodynamic Simulations of Magnetized Spine-Sheath Relativistic Jets. *Astrophysical Journal*, **2007**, 662, 835-850	4.7	100
5	General Relativistic Magnetohydrodynamic Simulations of Collapsars: Rotating Black Hole Cases. *Astrophysical Journal*, **2004**, 615, 389-401	4.7	46
4	General Relativistic Magnetohydrodynamic Simulations of Collapsars. *Astrophysical Journal*, **2004**, 606, 395-412	4.7	47
3	State-of-the-art energetic and morphological modelling of the launching site of the M87 jet. *Nature Astronomy*,	12.1	5
2	THEZA: TeraHertz Exploration and Zooming-in for Astrophysics. *Experimental Astronomy*,1	1.3	4
1	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. *Nature Astronomy*,	12.1	13