

Yosuke Mizuno

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6286768/yosuke-mizuno-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L1	7.9	1110
114	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L6	7.9	466
113	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019 , 875, L5	7.9	429
112	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L4	7.9	411
111	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019 , 875, L2	7.9	325
110	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019 , 875, L3	7.9	267
109	New method for shadow calculations: Application to parametrized axisymmetric black holes. <i>Physical Review D</i> , 2016 , 94,	4.9	162
108	BlackHoleCam: Fundamental physics of the galactic center. <i>International Journal of Modern Physics D</i> , 2017 , 26, 1730001	2.2	130
107	The current ability to test theories of gravity with black hole shadows. <i>Nature Astronomy</i> , 2018 , 2, 585-590.1	11.1	115
106	The black hole accretion code. <i>Computational Astrophysics and Cosmology</i> , 2017 , 4,	18.9	103
105	Three-dimensional Relativistic Magnetohydrodynamic Simulations of Magnetized Spine-Sheath Relativistic Jets. <i>Astrophysical Journal</i> , 2007 , 662, 835-850	4.7	100
104	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243, 26	8	96
103	PROBING THE INNERMOST REGIONS OF AGN JETS AND THEIR MAGNETIC FIELDS WITH RADIOASTRON. I. IMAGING BL LACERTAE AT 21 μ s RESOLUTION. <i>Astrophysical Journal</i> , 2016 , 817, 96	4.7	89
102	WEIBEL INSTABILITY AND ASSOCIATED STRONG FIELDS IN A FULLY THREE-DIMENSIONAL SIMULATION OF A RELATIVISTIC SHOCK. <i>Astrophysical Journal</i> , 2009 , 698, L10-L13	4.7	87
101	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY. I. INSTABILITY OF A STATIC COLUMN. <i>Astrophysical Journal</i> , 2009 , 700, 684-693	4.7	75
100	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020 , 125, 141104	7.4	74
99	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021 , 910, L13	7.9	70

98	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY. III. ROTATING RELATIVISTIC JETS. <i>Astrophysical Journal</i> , 2012 , 757, 16	4.7	68
97	RECOLLIMATION SHOCKS IN MAGNETIZED RELATIVISTIC JETS. <i>Astrophysical Journal</i> , 2015 , 809, 38	4.7	60
96	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021 , 910, L12	7.9	58
95	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY. II. RELAXATION OF PULSAR WIND NEBULA. <i>Astrophysical Journal</i> , 2011 , 728, 90	4.7	47
94	General Relativistic Magnetohydrodynamic Simulations of Collapsars. <i>Astrophysical Journal</i> , 2004 , 606, 395-412	4.7	47
93	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY WITH A SUB-ALFVÉNIC JET: TEMPORAL PROPERTIES. <i>Astrophysical Journal</i> , 2011 , 734, 19	4.7	46
92	General Relativistic Magnetohydrodynamic Simulations of Collapsars: Rotating Black Hole Cases. <i>Astrophysical Journal</i> , 2004 , 615, 389-401	4.7	46
91	MAGNETIC-FIELD AMPLIFICATION BY TURBULENCE IN A RELATIVISTIC SHOCK PROPAGATING THROUGH AN INHOMOGENEOUS MEDIUM. <i>Astrophysical Journal</i> , 2011 , 726, 62	4.7	45
90	SPATIAL GROWTH OF CURRENT-DRIVEN INSTABILITY IN RELATIVISTIC ROTATING JETS AND THE SEARCH FOR MAGNETIC RECONNECTION. <i>Astrophysical Journal</i> , 2016 , 824, 48	4.7	43
89	JET MOTION, INTERNAL WORKING SURFACES, AND NESTED SHELLS IN THE PROTOSTELLAR SYSTEM HH 212. <i>Astrophysical Journal</i> , 2015 , 805, 186	4.7	40
88	SPATIAL GROWTH OF THE CURRENT-DRIVEN INSTABILITY IN RELATIVISTIC JETS. <i>Astrophysical Journal</i> , 2014 , 784, 167	4.7	38
87	Modeling non-thermal emission from the jet-launching region of M 87 with adaptive mesh refinement. <i>Astronomy and Astrophysics</i> , 2019 , 632, A2	5.1	37
86	Magnetic field amplification and saturation in turbulence behind a relativistic shock. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 439, 3490-3503	4.3	33
85	Test-particle dynamics in general spherically symmetric black hole spacetimes. <i>Physical Review D</i> , 2018 , 97,	4.9	33
84	Plasmoid formation in global GRMHD simulations and AGN flares. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 1549-1565	4.3	32
83	How to tell an accreting boson star from a black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 521-535	4.3	31
82	A Magnetohydrodynamic Boost for Relativistic Jets. <i>Astrophysical Journal</i> , 2008 , 672, 72-82	4.7	31
81	EVOLUTION OF GLOBAL RELATIVISTIC JETS: COLLIMATIONS AND EXPANSION WITH KKH AND THE WEIBEL INSTABILITY. <i>Astrophysical Journal</i> , 2016 , 820, 94	4.7	31

80	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021 , 910, L14	7.9	28
79	Constrained transport and adaptive mesh refinement in the Black Hole Accretion Code. <i>Astronomy and Astrophysics</i> , 2019 , 629, A61	5.1	27
78	MAGNETOHYDRODYNAMIC EFFECTS IN PROPAGATING RELATIVISTIC JETS: REVERSE SHOCK AND MAGNETIC ACCELERATION. <i>Astrophysical Journal</i> , 2009 , 690, L47-L51	4.7	26
77	STEADY GENERAL RELATIVISTIC MAGNETOHYDRODYNAMIC INFLOW/OUTFLOW SOLUTION ALONG LARGE-SCALE MAGNETIC FIELDS THAT THREAD A ROTATING BLACK HOLE. <i>Astrophysical Journal</i> , 2015 , 801, 56	4.7	25
76	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 897, 139	4.7	24
75	MAGNETIC FIELD GENERATION IN CORE-SHEATH JETS VIA THE KINETIC KELVIN-HELMHOLTZ INSTABILITY. <i>Astrophysical Journal</i> , 2014 , 793, 60	4.7	23
74	GRMHD/RMHD simulations & stability of magnetized spine-sheath relativistic jets. <i>Astrophysics and Space Science</i> , 2007 , 311, 281-286	1.6	23
73	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	7.9	23
72	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	21
71	Flares in the Galactic Centre II. Orbiting flux tubes in magnetically arrested black hole accretion discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 502, 2023-2032	4.3	21
70	Monitoring the Morphology of M87* in 2009-2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 901, 67	4.7	20
69	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022 , 930, L14	7.9	20
68	Magnetic field generation in a jet-sheath plasma via the kinetic Kelvin-Helmholtz instability. <i>Annales Geophysicae</i> , 2013 , 31, 1535-1541	2	18
67	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020 , 897, 148	4.7	18
66	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021 , 103,	4.9	18
65	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	7.9	18
64	THE ROLE OF THE EQUATION OF STATE IN RESISTIVE RELATIVISTIC MAGNETOHYDRODYNAMICS. <i>Astrophysical Journal, Supplement Series</i> , 2013 , 205, 7	8	17
63	Radiation from relativistic shocks in turbulent magnetic fields. <i>Advances in Space Research</i> , 2011 , 47, 1434-1440	2.4	17

62	Jet-torus connection in radio galaxies. <i>Astronomy and Astrophysics</i> , 2018 , 609, A80	5.1	16
61	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021 , 911, L11	7.9	16
60	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022 , 930, L13	7.9	16
59	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022 , 930, L15	7.9	16
58	Using evolutionary algorithms to model relativistic jets. <i>Astronomy and Astrophysics</i> , 2019 , 629, A4	5.1	15
57	Observable Emission Features of Black Hole GRMHD Jets on Event Horizon Scales. <i>Astrophysical Journal</i> , 2017 , 845, 160	4.7	14
56	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022 , 930, L17	7.9	14
55	Comparison of the ion-to-electron temperature ratio prescription: GRMHD simulations with electron thermodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 506, 741-758	4.3	13
54	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> ,	12.1	13
53	PARTICLE ACCELERATION, MAGNETIC FIELD GENERATION, AND ASSOCIATED EMISSION IN COLLISIONLESS RELATIVISTIC JETS. <i>International Journal of Modern Physics D</i> , 2008 , 17, 1761-1767	2.2	11
52	3-D Rpic Simulations of Relativistic Jets: Particle Acceleration, Magnetic Field Generation, and Emission. <i>Astrophysics and Space Science</i> , 2007 , 307, 319-323	1.6	11
51	Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields. <i>Galaxies</i> , 2016 , 4, 38	2	11
50	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022 , 930, L19	7.9	11
49	Rapid particle acceleration due to recollimation shocks and turbulent magnetic fields in injected jets with helical magnetic fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 493, 2652-2658	4.3	10
48	Visibility of black hole shadows in low-luminosity AGN. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 501, 4722-4747	4.3	10
47	Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields: Dependence on Jet Radius. <i>Galaxies</i> , 2017 , 5, 58	2	9
46	RADIATION FROM RELATIVISTIC SHOCKS WITH TURBULENT MAGNETIC FIELDS. <i>International Journal of Modern Physics D</i> , 2010 , 19, 715-721	2.2	9
45	Deep Horizon: A machine learning network that recovers accreting black hole parameters. <i>Astronomy and Astrophysics</i> , 2020 , 636, A94	5.1	9

44	Modelling the polarised emission from black holes on event horizon-scales. <i>Proceedings of the International Astronomical Union</i> , 2018 , 14, 9-12	0.1	9
43	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022 , 930, L21	7.9	9
42	Particle Acceleration by Relativistic Magnetic Reconnection Driven by Kink Instability Turbulence in Poynting Flux-Dominated Jets. <i>Astrophysical Journal</i> , 2021 , 908, 193	4.7	8
41	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022 , 930, L20	7.9	8
40	Relativistic Jet Simulations of the Weibel Instability in the Slab Model to Cylindrical Jets with Helical Magnetic Fields. <i>Galaxies</i> , 2019 , 7, 29	2	7
39	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021 , 912, 35	4.7	7
38	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022 , 930, L18	7.9	7
37	Simulations of recoiling black holes: adaptive mesh refinement and radiative transfer. <i>Astronomy and Astrophysics</i> , 2017 , 598, A38	5.1	6
36	Radiative Signatures of Parsec-Scale Magnetised Jets. <i>Galaxies</i> , 2017 , 5, 73	2	5
35	New Relativistic Particle-In-Cell Simulation Studies of Prompt and Early Afterglows from GRBs 2008 ,		5
34	State-of-the-art energetic and morphological modelling of the launching site of the M87 jet. <i>Nature Astronomy</i> ,	12.1	5
33	Particle-in-cell Simulations of Global Relativistic Jets with Helical Magnetic Fields. <i>Proceedings of the International Astronomical Union</i> , 2016 , 12, 199-202	0.1	4
32	Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection. <i>EPJ Web of Conferences</i> , 2013 , 61, 02003	0.3	4
31	Studies of Relativistic Jets in Active Galactic Nuclei with SKA 2015 ,		4
30	Fast Magnetic Reconnection Structures in Poynting Flux-dominated Jets. <i>Astrophysical Journal</i> , 2021 , 912, 109	4.7	4
29	THEZA: TeraHertz Exploration and Zooming-in for Astrophysics. <i>Experimental Astronomy</i> ,1	1.3	4
28	Black hole parameter estimation with synthetic very long baseline interferometry data from the ground and from space. <i>Astronomy and Astrophysics</i> , 2021 , 650, A56	5.1	4
27	Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection. <i>EAS Publications Series</i> , 2013 , 61, 177-179	0.2	3

26	Simulation study of magnetic fields generated by the electromagnetic filamentation instability. <i>AIP Conference Proceedings</i> , 2007 ,	0	3
25	Magnetic Dissipation in Relativistic Jets. <i>Galaxies</i> , 2016 , 4, 40	2	3
24	The Black Hole Accretion Code: adaptive mesh refinement and constrained transport. <i>Journal of Physics: Conference Series</i> , 2018 , 1031, 012008	0.3	3
23	PIC methods in astrophysics: simulations of relativistic jets and kinetic physics in astrophysical systems. <i>Living Reviews in Solar Physics</i> , 2021 , 7, 1	12.2	3
22	Radiation from relativistic jets in turbulent magnetic fields 2009 ,		2
21	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022 , 925, 13	4.7	2
20	A Detailed Kinematic Study of 3C 84 and Its Connection to eRays. <i>Astrophysical Journal</i> , 2021 , 914, 43	4.7	2
19	Observational signatures of spherically-symmetric black hole spacetimes. <i>Journal of Physics: Conference Series</i> , 2017 , 942, 012007	0.3	1
18	CURRENT DRIVEN KINK INSTABILITY IN A MAGNETICALLY DOMINATED ROTATING RELATIVISTIC JET. <i>International Journal of Modern Physics Conference Series</i> , 2014 , 28, 1460201	0.7	1
17	Simulation of Relativistic Shocks and Associated Self-consistent Radiation 2011 ,		1
16	Simulation of relativistic shocks and associated radiation from turbulent magnetic fields. <i>Proceedings of the International Astronomical Union</i> , 2010 , 6, 354-357	0.1	1
15	GRMHD Simulations and Modeling for Jet Formation and Acceleration Region in AGNs. <i>Universe</i> , 2022 , 8, 85	2.5	0
14	RELAXATION OF PULSAR WIND NEBULA VIA CURRENT-DRIVEN KINK INSTABILITY. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 08, 368-371	0.7	
13	Magnetic Field Amplification and Saturation by Turbulence in A Relativistic Shock Propagating through An Inhomogeneous Medium. <i>EAS Publications Series</i> , 2013 , 61, 173-175	0.2	
12	Current-Driven Kink Instability in Magnetically Dominated Rotating Relativistic Jet. <i>EPJ Web of Conferences</i> , 2013 , 61, 02004	0.3	
11	Radiation from accelerated particles in shocks. <i>Proceedings of the International Astronomical Union</i> , 2011 , 7, 371-372	0.1	
10	CURRENT-DRIVEN KINK INSTABILITY IN RELATIVISTIC JETS. <i>International Journal of Modern Physics D</i> , 2010 , 19, 683-688	2.2	
9	MAGNETOHYDRODYNAMIC EFFECTS IN RELATIVISTIC EJECTA. <i>International Journal of Modern Physics D</i> , 2010 , 19, 991-996	2.2	

- 8 CURRENT DRIVEN INSTABILITY OF A SUB-ALFVÉNIC RELATIVISTIC JET. *International Journal of Modern Physics Conference Series*, **2012**, 08, 340-343 0.7
- 7 MAGNETIC FIELD AMPLIFICATION BY RELATIVISTIC SHOCKS IN AN INHOMOGENEOUS MEDIUM. *International Journal of Modern Physics Conference Series*, **2012**, 08, 364-367 0.7
- 6 Current-Driven Kink Instability in Relativistic Jets. *Proceedings of the International Astronomical Union*, **2010**, 6, 476-478 0.1
- 5 Magnetic field amplification by relativistic shocks in a turbulent medium. *Proceedings of the International Astronomical Union*, **2010**, 6, 445-448 0.1
- 4 Accreting Black Hole Binaries **2021**, 59-67
- 3 Stability of Magnetized Spine-Sheath Relativistic Jets. *Thirty Years of Astronomical Discovery With UKIRT*, **2009**, 589-591 0.3
- 2 Long-term Simulations of Magnetized Disks and Jets Around Supermassive Black-hole Binaries in General Relativity **2021**, 23-31
- 1 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