List of Publications by Year in descending order

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		50170	30848
131	11,652	46	102
papers	citations	h-index	g-index
135	135	135	4115
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L1.	3.0	2,264
2	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. Astrophysical Journal Letters, 2019, 875, L6.	3.0	897
3	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. Astrophysical Journal Letters, 2019, 875, L5.	3.0	814
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L4.	3.0	806
5	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. Astrophysical Journal Letters, 2019, 875, L2.	3.0	618
6	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.	3.0	568
7	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. Astrophysical Journal Letters, 2019, 875, L3.	3.0	519
8	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. Astrophysical Journal Letters, 2021, 910, L13.	3.0	297
9	New method for shadow calculations: Application to parametrized axisymmetric black holes. Physical Review D, 2016, 94, .	1.6	219
10	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. Astrophysical Journal Letters, 2021, 910, L12.	3.0	215
11	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. Astrophysical Journal Letters, 2022, 930, L17.	3.0	215
12	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. Physical Review Letters, 2020, 125, 141104.	2.9	190
13	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. Astrophysical Journal Letters, 2022, 930, L16.	3.0	187
14	The current ability to test theories of gravity with black hole shadows. Nature Astronomy, 2018, 2, 585-590.	4.2	180
15	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. Astrophysical Journal, Supplement Series, 2019, 243, 26.	3.0	175
16	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. Astrophysical Journal Letters, 2022, 930, L14.	3.0	163
17	The black hole accretion code. Computational Astrophysics and Cosmology, 2017, 4, .	22.7	154
18	BlackHoleCam: Fundamental physics of the galactic center. International Journal of Modern Physics D, 2017, 26, 1730001.	0.9	148

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19	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. Astrophysical Journal Letters, 2022, 930, L13.	3.0	142
20	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. Astrophysical Journal Letters, 2022, 930, L15.	3.0	137
21	Constraints on black-hole charges with the 2017 EHT observations of M87*. Physical Review D, 2021, 103, .	1.6	126
22	PROBING THE INNERMOST REGIONS OF AGN JETS AND THEIR MAGNETIC FIELDS WITH RADIOASTRON. I. IMAGING BL LACERTAE AT 21 μas RESOLUTION. Astrophysical Journal, 2016, 817, 96.	1.6	114
23	Threeâ€dimensional Relativistic Magnetohydrodynamic Simulations of Magnetized Spineâ€Sheath Relativistic Jets. Astrophysical Journal, 2007, 662, 835-850.	1.6	111
24	WEIBEL INSTABILITY AND ASSOCIATED STRONG FIELDS IN A FULLY THREE-DIMENSIONAL SIMULATION OF A RELATIVISTIC SHOCK. Astrophysical Journal, 2009, 698, L10-L13.	1.6	92
25	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY. I. INSTABILITY OF A STATIC COLUMN. Astrophysical Journal, 2009, 700, 684-693.	1.6	84
26	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY. III. ROTATING RELATIVISTIC JETS. Astrophysical Journal, 2012, 757, 16.	1.6	81
27	How to tell an accreting boson star from a black hole. Monthly Notices of the Royal Astronomical Society, 2020, 497, 521-535.	1.6	80
28	RECOLLIMATION SHOCKS IN MAGNETIZED RELATIVISTIC JETS. Astrophysical Journal, 2015, 809, 38.	1.6	76
29	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	3.0	67
30	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. Nature Astronomy, 2021, 5, 1017-1028.	4.2	65
31	Modeling non-thermal emission from the jet-launching region of M 87 with adaptive mesh refinement. Astronomy and Astrophysics, 2019, 632, A2.	2.1	61
32	Plasmoid formation in global GRMHD simulations and AGN flares. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1549-1565.	1.6	57
33	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2021, 911, L11.	3.0	56
34	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. Astronomy and Astrophysics, 2020, 640, A69.	2.1	54
35	MAGNETOHYDRODYNAMIC EFFECTS IN PROPAGATING RELATIVISTIC JETS: REVERSE SHOCK AND MAGNETIC ACCELERATION. Astrophysical Journal, 2009, 690, L47-L51.	1.6	53
36	MAGNETIC-FIELD AMPLIFICATION BY TURBULENCE IN A RELATIVISTIC SHOCK PROPAGATING THROUGH AN INHOMOGENEOUS MEDIUM. Astrophysical Journal, 2011, 726, 62.	1.6	52

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37	Flares in the Galactic Centre $\hat{a} \in$ " I. Orbiting flux tubes in magnetically arrested black hole accretion discs. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2023-2032.	1.6	52
38	SPATIAL GROWTH OF CURRENT-DRIVEN INSTABILITY IN RELATIVISTIC ROTATING JETS AND THE SEARCH FOR MAGNETIC RECONNECTION. Astrophysical Journal, 2016, 824, 48.	1.6	51
39	Constrained transport and adaptive mesh refinement in the Black Hole Accretion Code. Astronomy and Astrophysics, 2019, 629, A61.	2.1	51
40	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. Astrophysical Journal, 2020, 901, 67.	1.6	51
41	General Relativistic Magnetohydrodynamic Simulations of Collapsars: Rotating Black Hole Cases. Astrophysical Journal, 2004, 615, 389-401.	1.6	50
42	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY. II. RELAXATION OF PULSAR WIND NEBULA. Astrophysical Journal, 2011, 728, 90.	1.6	49
43	THREE-DIMENSIONAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF CURRENT-DRIVEN INSTABILITY WITH A SUB-ALFVÉNIC JET: TEMPORAL PROPERTIES. Astrophysical Journal, 2011, 734, 19.	1.6	49
44	General Relativistic Magnetohydrodynamic Simulations of Collapsars. Astrophysical Journal, 2004, 606, 395-412.	1.6	48
45	JET MOTION, INTERNAL WORKING SURFACES, AND NESTED SHELLS IN THE PROTOSTELLAR SYSTEM HH 212. Astrophysical Journal, 2015, 805, 186.	1.6	48
46	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. Astrophysical Journal, 2020, 897, 139.	1.6	47
47	Magnetic field amplification and saturation in turbulence behind a relativistic shock. Monthly Notices of the Royal Astronomical Society, 2014, 439, 3490-3503.	1.6	46
48	SPATIAL GROWTH OF THE CURRENT-DRIVEN INSTABILITY IN RELATIVISTIC JETS. Astrophysical Journal, 2014, 784, 167.	1.6	44
49	Verification of Radiative Transfer Schemes for the EHT. Astrophysical Journal, 2020, 897, 148.	1.6	44
50	Test-particle dynamics in general spherically symmetric black hole spacetimes. Physical Review D, 2018, 97, .	1.6	43
51	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. Astrophysical Journal, 2021, 912, 35.	1.6	43
52	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2022, 930, L19.	3.0	43
53	EVOLUTION OF GLOBAL RELATIVISTIC JETS: COLLIMATIONS AND EXPANSION WITH kKHI AND THE WEIBEL INSTABILITY. Astrophysical Journal, 2016, 820, 94.	1.6	36
54	State-of-the-art energetic and morphological modelling of the launching site of the M87 jet. Nature Astronomy, 2022, 6, 103-108.	4.2	33

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55	A Magnetohydrodynamic Boost for Relativistic Jets. Astrophysical Journal, 2008, 672, 72-82.	1.6	31
56	Comparison of the ion-to-electron temperature ratio prescription: GRMHD simulations with electron the thermodynamics. Monthly Notices of the Royal Astronomical Society, 2021, 506, 741-758.	1.6	31
57	STEADY GENERAL RELATIVISTIC MAGNETOHYDRODYNAMIC INFLOW/OUTFLOW SOLUTION ALONG LARGE-SCALE MAGNETIC FIELDS THAT THREAD A ROTATING BLACK HOLE. Astrophysical Journal, 2015, 801, 56.	1.6	30
58	Particle Acceleration by Relativistic Magnetic Reconnection Driven by Kink Instability Turbulence in Poynting Flux–Dominated Jets. Astrophysical Journal, 2021, 908, 193.	1.6	30
59	GRMHD/RMHD simulations & stability of magnetized spine-sheath relativistic jets. Astrophysics and Space Science, 2007, 311, 281-286.	0.5	27
60	MAGNETIC FIELD GENERATION IN CORE-SHEATH JETS VIA THE KINETIC KELVIN-HELMHOLTZ INSTABILITY. Astrophysical Journal, 2014, 793, 60.	1.6	25
61	Using evolutionary algorithms to model relativistic jets. Astronomy and Astrophysics, 2019, 629, A4.	2.1	24
62	Stringent axion constraints with Event Horizon Telescope polarimetric measurements of M87⋆. Nature Astronomy, 2022, 6, 592-598.	4.2	22
63	PIC methods in astrophysics: simulations of relativistic jets and kinetic physics in astrophysical systems. Living Reviews in Solar Physics, 2021, 7, 1.	5.0	21
64	Visibility of black hole shadows in low-luminosity AGN. Monthly Notices of the Royal Astronomical Society, 2021, 501, 4722-4747.	1.6	21
65	Selective Dynamical Imaging of Interferometric Data. Astrophysical Journal Letters, 2022, 930, L18.	3.0	21
66	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	3.0	20
67	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. Astrophysical Journal Letters, 2022, 930, L20.	3.0	20
68	Magnetic field generation in a jet-sheath plasma via the kinetic Kelvin-Helmholtz instability. Annales Geophysicae, 2013, 31, 1535-1541.	0.6	19
69	Jet-torus connection in radio galaxies. Astronomy and Astrophysics, 2018, 609, A80.	2.1	19
70	THE ROLE OF THE EQUATION OF STATE IN RESISTIVE RELATIVISTIC MAGNETOHYDRODYNAMICS. Astrophysical Journal, Supplement Series, 2013, 205, 7.	3.0	18
71	Black hole parameter estimation with synthetic very long baseline interferometry data from the ground and from space. Astronomy and Astrophysics, 2021, 650, A56.	2.1	18
72	Radiation from relativistic shocks in turbulent magnetic fields. Advances in Space Research, 2011, 47, 1434-1440.	1.2	17

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73	Deep Horizon: A machine learning network that recovers accreting black hole parameters. Astronomy and Astrophysics, 2020, 636, A94.	2.1	17
74	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.	1.6	17
75	Fast Magnetic Reconnection Structures in Poynting Flux-dominated Jets. Astrophysical Journal, 2021, 912, 109.	1.6	17
76	THEZA: TeraHertz Exploration and Zooming-in for Astrophysics. Experimental Astronomy, 2021, 51, 559-594.	1.6	17
77	Observable Emission Features of Black Hole GRMHD Jets on Event Horizon Scales. Astrophysical Journal, 2017, 845, 160.	1.6	16
78	The science case and challenges of space-borne sub-millimeter interferometry. Acta Astronautica, 2022, 196, 314-333.	1.7	15
79	PARTICLE ACCELERATION, MAGNETIC FIELD GENERATION, AND ASSOCIATED EMISSION IN COLLISIONLESS RELATIVISTIC JETS. International Journal of Modern Physics D, 2008, 17, 1761-1767.	0.9	13
80	GRMHD Simulations and Modeling for Jet Formation and Acceleration Region in AGNs. Universe, 2022, 8, 85.	0.9	13
81	3-D Rpic Simulations of Relativistic Jets: Particle Acceleration, Magnetic Field Generation, and Emission. Astrophysics and Space Science, 2007, 307, 319-323.	0.5	12
82	Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields. Galaxies, 2016, 4, 38.	1.1	12
83	Unraveling the Innermost Jet Structure of OJ 287 with the First GMVA + ALMA Observations. Astrophysical Journal, 2022, 932, 72.	1.6	12
84	Modelling the polarised emission from black holes on event horizon-scales. Proceedings of the International Astronomical Union, 2018, 14, 9-12.	0.0	11
85	Relativistic Jet Simulations of the Weibel Instability in the Slab Model to Cylindrical Jets with Helical Magnetic Fields. Galaxies, 2019, 7, 29.	1.1	11
86	Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields: Dependence on Jet Radius. Galaxies, 2017, 5, 58.	1.1	10
87	RADIATION FROM RELATIVISTIC SHOCKS WITH TURBULENT MAGNETIC FIELDS. International Journal of Modern Physics D, 2010, 19, 715-721.	0.9	9
88	Simulations of recoiling black holes: adaptive mesh refinement and radiative transfer. Astronomy and Astrophysics, 2017, 598, A38.	2.1	8
89	A Detailed Kinematic Study of 3C 84 and Its Connection to Î <sup>3</sup> -Rays. Astrophysical Journal, 2021, 914, 43.	1.6	7
90	New Relativistic Particle-In-Cell Simulation Studies of Prompt and Early Afterglows from GRBs. , 2008,		6

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91	Radiative Signatures of Parsec-Scale Magnetised Jets. Galaxies, 2017, 5, 73.	1.1	6
92	The Black Hole Accretion Code: adaptive mesh refinement and constrained transport. Journal of Physics: Conference Series, 2018, 1031, 012008.	0.3	6
93	Studies of Relativistic Jets in Active Galactic Nuclei with SKA. , 2015, , .		6
94	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. Astrophysical Journal, 2022, 925, 13.	1.6	6
95	Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection. EPJ Web of Conferences, 2013, 61, 02003.	0.1	4
96	Particle-in-cell Simulations of Global Relativistic Jets with Helical Magnetic Fields. Proceedings of the International Astronomical Union, 2016, 12, 199-202.	0.0	4
97	Simulation study of magnetic fields generated by the electromagnetic filamentation instability. AIP Conference Proceedings, 2007, , .	0.3	3
98	Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection. EAS Publications Series, 2013, 61, 177-179.	0.3	3
99	Magnetic Dissipation in Relativistic Jets. Galaxies, 2016, 4, 40.	1.1	3
100	Radiation from relativistic jets in turbulent magnetic fields. , 2009, , .		2
101	Relativistic Particle-In-Cell Simulation Studies of Prompt and Early Afterglows from GRBs. AIP Conference Proceedings, 2008, , .	0.3	1
102	Simulation of relativistic shocks and associated radiation from turbulent magnetic fields. Proceedings of the International Astronomical Union, 2010, 6, 354-357.	0.0	1
103	Simulation of Relativistic Shocks and Associated Self-consistent Radiation. , 2010, , .		1
104	Simulation of Relativistic Shocks and Associated Self-consistent Radiation. AIP Conference Proceedings, 2011, , .	0.3	1
105	CURRENT DRIVEN KINK INSTABILITY IN A MAGNETICALLY DOMINATED ROTATING RELATIVISTIC JET. International Journal of Modern Physics Conference Series, 2014, 28, 1460201.	0.7	1
106	Observational signatures of spherically-symmetric black hole spacetimes. Journal of Physics: Conference Series, 2017, 942, 012007.	0.3	1
107	Magnetic Reconnection on Jet-Accretion Disk Systems. , 2017, , .		1
108	3-D GRMHD Simulations of Disk-Jet Coupling and Emission. AIP Conference Proceedings, 2005, , .	0.3	0

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109	Particle acceleration in electron-ion jets. AIP Conference Proceedings, 2005, , .	0.3	Ο
110	Simulation Studies of Early Afterglows Observed with SWIFT. AIP Conference Proceedings, 2006, , .	0.3	0
111	Relativistic MHD Simulations of Relativistic Jets with RAISHIN. AIP Conference Proceedings, 2007, , .	0.3	0
112	A Magnetohydrodynamic Boost for Relativistic Jets. AIP Conference Proceedings, 2008, , .	0.3	0
113	Magnetohydrodynamic Effects in Propagating Relativistic Ejecta: Reverse Shock and Magnetic Acceleration. , 2009, , .		Ο
114	Current-Driven Kink Instability in Relativistic Jets. Proceedings of the International Astronomical Union, 2010, 6, 476-478.	0.0	0
115	Magnetic field amplification by relativistic shocks in a turbulent medium. Proceedings of the International Astronomical Union, 2010, 6, 445-448.	0.0	0
116	Magnetic Field Amplification by Relativistic Shocks in Turbulent Medium. , 2010, , .		0
117	CURRENT-DRIVEN KINK INSTABILITY IN RELATIVISTIC JETS. International Journal of Modern Physics D, 2010, 19, 683-688.	0.9	Ο
118	MAGNETOHYDRODYNAMIC EFFECTS IN RELATIVISTIC EJECTA. International Journal of Modern Physics D, 2010, 19, 991-996.	0.9	0
119	Radiation from accelerated particles in shocks. Proceedings of the International Astronomical Union, 2011, 7, 371-372.	0.0	0
120	CURRENT DRIVEN INSTABILITY OF A SUB-ALFVÉNIC RELATIVISTIC JET. International Journal of Modern Physics Conference Series, 2012, 08, 340-343.	0.7	0
121	MAGNETIC FIELD AMPLIFICATION BY RELATIVISTIC SHOCKS IN AN INHOMOGENEOUS MEDIUM. International Journal of Modern Physics Conference Series, 2012, 08, 364-367.	0.7	0
122	The current-driven kink instability in magnetically dominated relativistic jets. , 2012, , .		0
123	RELAXATION OF PULSAR WIND NEBULA VIA CURRENT-DRIVEN KINK INSTABILITY. International Journal of Modern Physics Conference Series, 2012, 08, 368-371.	0.7	0
124	Magnetic Field Amplification and Saturation by Turbulence in A Relativistic Shock Propagating through An Inhomogeneous Medium. EAS Publications Series, 2013, 61, 173-175.	0.3	0
125	Current-Driven Kink Instability in Magnetically Dominated Rotating Relativistic Jet. EPJ Web of Conferences, 2013, 61, 02004.	0.1	0
126	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.	0.0	0

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127	Long-term Simulations of Magnetized Disks and Jets Around Supermassive Black-hole Binaries in General Relativity. , 2021, , 23-31.		0
128	GRMHD Simulations of Jet Formation with a Newly-Developed GRMHD Code. , 2007, , .		0
129	3D Relativistic MHD Simulations of Magnetized Spine-Sheath Relativistic Jets. , 2007, , .		0
130	Stability of Magnetized Spine-Sheath Relativistic Jets. Thirty Years of Astronomical Discovery With UKIRT, 2009, , 589-591.	0.3	0
131	Accreting Black Hole Binaries. , 2021, , 59-67.		0