Tong Liu

List of Publications by Year
in descending order

84	1,593	279798 23	330143 37
papers	citations	h-index	g-index

85	85	85	1007
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anisotropic Multimessenger Signals from Black Hole Neutrino-dominated Accretion Flows with Outflows in Binary Compact Object Mergers. Astrophysical Journal, 2022, 925, 43.	4.5	11
2	Statistical Analyses of the Energies of X-Ray Plateaus and Flares in Gamma-Ray Bursts. Astrophysical Journal, 2022, 924, 69.	4.5	9
3	Revisiting Black Hole Hyperaccretion in the Center of Gamma-Ray Bursts for the Lower Mass Gap. Astrophysical Journal, 2022, 929, 83.	4.5	4
4	Polarization in Early Optical Afterglows of Gamma-Ray Bursts Driven by Precessing Jets. Astrophysical Journal, 2022, 933, 103.	4.5	3
5	Testing Blandfordâ€“Znajek Mechanism in Black Hole Hyperaccretion Flows for Long-duration Gamma-Ray Bursts. Astrophysical Journal, 2021, 908, 242.	4.5	9
6	Final Compact Remnants in Core-collapse Supernovae from 20 to 40 M _{âŠ™}: The Lower Mass Gap. Astrophysical Journal, 2021, 908, 106.	4.5	20
7	Faint Active Galactic Nuclei Favor Unexpectedly Long Inter-band Time Lags. Astrophysical Journal Letters, 2021, 912, L29.	8.3	12
8	Anisotropic neutrinos and gravitational waves from black hole neutrino-dominated accretion flows in fallback core-collapse supernovae. Monthly Notices of the Royal Astronomical Society, 2021, 507, 431-442.	4.4	5
9	Energy Injection Driven by Precessing Jets in Gamma-Ray Burst Afterglows. Astrophysical Journal, 2021, 916, 71.	4.5	9
10	GRB variabilities and following gravitational waves induced by gravitational instability in NDAFs. Monthly Notices of the Royal Astronomical Society, 2021, 508, 6068-6076.	4.4	2
11	Neutrino-dominated Accretion Flows: A Second Nucleosynthesis Factory in Core-collapse Supernovae and Regulating the Iron Markets in Galaxies. Astrophysical Journal, 2021, 920, 5.	4.5	4
12	Point-wise Self-similar Solution for Spiral Shocks in an Accretion Disk with Mass Outflow in a Binary. Astrophysical Journal, 2021, 922, 120.	4.5	1
13	Reconciling the 16.35-day Period of FRB 20180916B with Jet Precession. Astrophysical Journal, 2021, 921, 147.	4.5	4
14	Evidence of X-Ray Plateaus Driven by the Magnetar Spindown Winds in Gamma-Ray Burst Afterglows. Astrophysical Journal, 2021, 922, 102.	4.5	5
15	Publisherâ€™s Note: Detectable MeV neutrinos from black hole neutrino-dominated accretion flows [Phys. Rev. D 93 , 123004 (2016)]. Physical Review D, 2020, 102, .	4.7	0
16	Corona-heated Accretion-disk Reprocessing: A Physical Model to Decipher the Melody of AGN UV/Optical Twinkling. Astrophysical Journal, 2020, 891, 178.	4.5	30
17	Neutrinos and gravitational waves from magnetized neutrino-dominated accretion discs with magnetic coupling. Monthly Notices of the Royal Astronomical Society, 2020, 494, 3962-3970.	4.4	6
18	A neutron starâ€“white dwarf binary model for periodically active fast radio burst sources. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1543-1546.	4.4	28

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19	Black Hole Hyperaccretion in Collapsars. II. Gravitational Waves. Astrophysical Journal, 2020, 889, 73.	4.5	12
20	Testing the Weak Equivalence Principle with the Binary Neutron Star Merger GW 170817: The Gravitational Contribution of the Host Galaxy. Astrophysical Journal, 2020, 900, 31.	4.5	3
21	Modeling Quasar UV/Optical Variability with the Corona-heated Accretion-disk Reprocessing (CHAR) Model. Astrophysical Journal, 2020, 902, 7.	4.5	9
22	Contribution of Dark Matter Annihilation to Gamma-Ray Burst Afterglows near Massive Galaxy Centers. Astrophysical Journal, 2020, 904, 17.	4.5	3
23	Black Hole Hyperaccretion in Collapsars. I. MeV Neutrinos. Astrophysical Journal, 2019, 878, 142.	4.5	15
24	A Pulsar Wind Nebula Embedded in the Kilonova AT 2017gfo Associated with GW170817/GRB 170817A. Astrophysical Journal, 2019, 885, 60.	4.5	20
25	Jet structure in the afterglow phase for gamma-ray bursts with a precessing jet. Monthly Notices of the Royal Astronomical Society, 2019, 487, 3214-3220.	4.4	8
26	Black Hole Hyperaccretion Inflowâ€“Outflow Model. II. Long-duration Gamma-Ray Bursts and Supernova ⁵⁶Ni Bumps. Astrophysical Journal, 2019, 871, 117.	4.5	18
27	A possible feedback mechanism of outflows from a black hole hyperaccretion disk in the center of jet-driven iPTF14hls. Journal of High Energy Astrophysics, 2019, 22, 5-9.	6.7	12
28	Lorentz Factor Evolution of an Expanding Jet Shell Observed in a Gamma-Ray Burst: Case Study of GRB 160625B. Astrophysical Journal, 2019, 883, 187.	4.5	2
29	Compact binary merger and kilonova: outflows from remnant disc. Monthly Notices of the Royal Astronomical Society, 2018, 476, 683-689.	4.4	4
30	A black holeâ€“white dwarf compact binary model for long gamma-ray bursts without supernova association. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 475, L101-L105.	3.3	14
31	The X-Ray Light Curve in GRB 170714A: Evidence for a Quark Star?. Astrophysical Journal, 2018, 854, 104.	4.5	20
32	First Electromagnetic Pulse Associated with a Gravitational-wave Event: Profile, Duration, and Delay. Astrophysical Journal, 2018, 856, 90.	4.5	11
33	External Shock in a Multi-bursting Gamma-Ray Burst: Energy Injection Phase Induced by the Later Launched Ejecta. Astrophysical Journal, 2018, 852, 136.	4.5	4
34	Outflows from black hole hyperaccretion systems: short and long-short gamma-ray bursts and â€˜quasi-supernovaeâ€™. Monthly Notices of the Royal Astronomical Society, 2018, 477, 2173-2182.	4.4	24
35	Black Hole Hyperaccretion Inflowâ€“Outflow Model. I. Long and Ultra-long Gamma-Ray Bursts. Astrophysical Journal, 2018, 852, 20.	4.5	38
36	Multicolor Blackbody Emission in GRB 081221. Astrophysical Journal, 2018, 866, 13.	4.5	25

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37	A lower occurrence rate of bright X-ray flares in SN-GRBs than zÂ<Â1 GRBs: evidence of energy partitions?. Monthly Notices of the Royal Astronomical Society, 2018, 478, 3605-3613.	4.4	1
38	Central-engine-powered Bright X-Ray Flares in Short Gamma-Ray Bursts: A Hint of a Black Holeâ€“Neutron Star Merger?. Astrophysical Journal, 2018, 858, 34.	4.5	7
39	Vertical Advection Effects on Hyper-accretion Disks and Potential Link between Gamma-Ray Bursts and Kilonovae. Astrophysical Journal, 2017, 836, 245.	4.5	10
40	Steep Decay Phase Shaped by the Curvature Effect. I. Flux Evolution. Astrophysical Journal, 2017, 840, 95.	4.5	7
41	Neutrino-dominated accretion flows as the central engine of gamma-ray bursts. New Astronomy Reviews, 2017, 79, 1-25.	12.8	93
42	Comparison of Gravitational Waves from Central Engines of Gamma-Ray Bursts: Neutrino-dominated Accretion Flows, Blandfordâ€“Znajek Mechanisms, and Millisecond Magnetars. Astrophysical Journal, 2017, 850, 30.	4.5	18
43	A NEUTRON STARâ€“WHITE DWARF BINARY MODEL FOR REPEATING FAST RADIO BURST 121102. Astrophysical Journal Letters, 2016, 823, L28.	8.3	61
44	A METHOD TO CONSTRAIN MASS AND SPIN OF GRB BLACK HOLES WITHIN THE NDAF MODEL. Astrophysical Journal, 2016, 821, 132.	4.5	8
45	Variabilities of gamma-ray bursts from black hole hyper-accretion discs. Monthly Notices of the Royal Astronomical Society, 2016, 463, 245-250.	4.4	13
46	FAST RADIO BURSTS AND THEIR GAMMA-RAY OR RADIO AFTERGLOWS AS KERRâ€“NEWMAN BLACK HOLE BINARIES. Astrophysical Journal, 2016, 826, 82.	4.5	80
47	Detectable MeV neutrinos from black hole neutrino-dominated accretion flows. Physical Review D, 2016, 93, .	4.7	25
48	Internal x-ray plateau in short GRBs: Signature of supramassive fast-rotating quark stars?. Physical Review D, 2016, 94, .	4.7	69
49	CENTRAL ENGINE OF LATE-TIME X-RAY FLARES WITH INTERNAL ORIGIN. Astrophysical Journal, 2016, 832, 161.	4.5	20
50	ON THE HOST GALAXY OF GRB 150101B AND THE ASSOCIATED ACTIVE GALACTIC NUCLEUS. Astrophysical Journal Letters, 2016, 824, L17.	8.3	12
51	Testing black hole neutrino-dominated accretion discs for long-duration gamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1921-1926.	4.4	28
52	EVOLUTIONS OF STELLAR-MASS BLACK HOLE HYPERACCRETION SYSTEMS IN THE CENTER OF GAMMA-RAY BURSTS. Astrophysical Journal, 2015, 815, 54.	4.5	20
53	THERMAL STABILITY OF MAGNETIZED, OPTICALLY THIN, RADIATIVE COOLING-DOMINATED ACCRETION DISKS. Astrophysical Journal, 2015, 801, 47.	4.5	7
54	CAN BLACK HOLE NEUTRINO-COOLED DISKS POWER SHORT GAMMA-RAY BURSTS?. Astrophysical Journal, 2015, 806, 58.	4.5	28

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55	JET LUMINOSITY OF GAMMA-RAY BURSTS: THE BLANDFORDâ€“ZNAJEK MECHANISM VERSUS THE NEUTRINO ANNIHILATION PROCESS. Astrophysical Journal, Supplement Series, 2015, 218, 12.	7.7	56
56	VERTICAL CONVECTION IN NEUTRINO-DOMINATED ACCRETION FLOWS. Astrophysical Journal, 2015, 805, 37.	4.5	16
57	POTENTIAL GAMMA-RAY EMISSIONS FROM LOW-MASS X-RAY BINARY JETS. Astrophysical Journal, 2015, 806, 168.	4.5	4
58	Revisiting the boiling of primordial quark nuggets at nonzero chemical potential. Astroparticle Physics, 2015, 62, 115-121.	4.3	5
59	SELF-GRAVITY IN NEUTRINO-DOMINATED ACCRETION DISKS. Astrophysical Journal, 2014, 791, 69.	4.5	24
60	Characteristics of Double Gamma-Ray Bursts. Chinese Physics Letters, 2014, 31, 119801.	3.3	1
61	TIME EVOLUTION OF FLARES IN GRB 130925A: JET PRECESSION IN A BLACK HOLE ACCRETION SYSTEM. Astrophysical Journal Letters, 2014, 781, L19.	8.3	28
62	Nucleosynthesis from neutrino-dominated accretion disks in gamma-ray bursts and its application. EPJ Web of Conferences, 2014, 66, 07015.	0.3	1
63	REVISITING THE LIGHT CURVES OF GAMMA-RAY BURSTS IN THE RELATIVISTIC TURBULENCE MODEL. Astrophysical Journal, 2013, 776, 41.	4.5	10
64	RELATIVISTIC GLOBAL SOLUTIONS OF NEUTRINO-DOMINATED ACCRETION FLOWS. Astrophysical Journal, Supplement Series, 2013, 207, 23.	7.7	46
65	NEUTRINO-COOLED ACCRETION MODEL WITH MAGNETIC COUPLING FOR X-RAY FLARES IN GAMMA-RAY BURSTS. Astrophysical Journal, 2013, 773, 142.	4.5	26
66	GRAVITATIONAL RADIATIONS FROM THE PRECESSION CENTRAL ENGINE IN GAMMA-RAY BURSTS. International Journal of Modern Physics Conference Series, 2013, 23, 281-283.	0.7	1
67	Revisiting the hot matter in the center of gamma-ray bursts and supernovae. Astronomy and Astrophysics, 2013, 555, A129.	5.1	13
68	THE VERTICAL COMPOSITION OF NEUTRINO-DOMINATED ACCRETION DISKS IN GAMMA-RAY BURSTS. Astrophysical Journal, 2013, 762, 102.	4.5	23
69	UNDERSTANDING SIMULATIONS OF THIN ACCRETION DISKS BY ENERGY EQUATION. Astrophysical Journal, 2012, 761, 29.	4.5	7
70	GRAVITATIONAL WAVES OF JET PRECESSION IN GAMMA-RAY BURSTS. Astrophysical Journal, 2012, 752, 31.	4.5	37
71	RADIAL ANGULAR MOMENTUM TRANSFER AND MAGNETIC BARRIER FOR SHORT-TYPE GAMMA-RAY-BURST CENTRAL ENGINE ACTIVITY. Astrophysical Journal, 2012, 760, 63.	4.5	35
72	Ignition of neutrino-dominated accretion disks. Science China: Physics, Mechanics and Astronomy, 2012, 55, 316-319.	5.1	4

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73	Revisiting vertical structure of neutrino-dominated accretion disks: Bernoulli parameter, neutrino trapping and other distributions. Astrophysics and Space Science, 2012, 337, 711-717.	1.4	24
74	Possible Outflow Formation in the Central Engine of GRBs. Journal of Astrophysics and Astronomy, 2011, 32, 285-287.	1.0	0
75	Gravitational Instability in Neutrino Dominated Accretion Disks. Chinese Physics Letters, 2011, 28, 129802.	3.3	3
76	VERTICAL STRUCTURE OF NEUTRINO-DOMINATED ACCRETION DISK AND APPLICATIONS TO GAMMA-RAY BURSTS. Astrophysical Journal, 2010, 709, 851-855.	4.5	32
77	Advection-Dominated Accretion Disks: Geometrically Slim or Thick?. Publication of the Astronomical Society of Japan, 2009, 61, 1313-1318.	2.5	26
78	Annihilation luminosity of a neutrino-cooled accretion disk in a gamma-ray burst. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 729-733.	0.2	1
79	Unified Description of SSDs, Slim Disks, and NDAFs. AIP Conference Proceedings, 2008, , .	0.4	0
80	Neutrino-cooled Accretion Disks As the Central Engine of Gamma-ray Bursts. AIP Conference Proceedings, 2008, , .	0.4	1
81	Constraints on the Mass Accretion Rate of Neutrinoâ€cooled Disks in Gammaâ€Ray Bursts. Astrophysical Journal, 2008, 676, 545-548.	4.5	40
82	Structure and Luminosity of Neutrinoâ€cooled Accretion Disks. Astrophysical Journal, 2007, 661, 1025-1033.	4.5	110
83	Neutrino-dominated Accretion Models for Gamma-Ray Bursts: Effects of General Relativity and Neutrino Opacity. Astrophysical Journal, 2006, 643, L87-L90.	4.5	108
84	Relativistic global solutions of neutrino-dominated accretion flows with magnetic coupling. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	0