List of Publications by Year in descending order

76 papers	1,352 citations	304743 22 h-index	377865 34 g-index
77 all docs	77 docs citations	77 times ranked	465 citing authors

#	Article	IF	Citations
1	Evolution of Highly Magnetic White Dwarfs by Field Decay and Cooling: Theory and Simulations. Astrophysical Journal, 2022, 925, 133.	4.5	7
2	Anisotropic Magnetized White Dwarfs: Unifying Under- and Overluminous Peculiar and Standard Type Ia Supernovae. Astrophysical Journal, 2022, 926, 66.	4.5	7
3	The competition between the hydrodynamic instability from noise and magnetorotational instability in the Keplerian disks. AIP Advances, 2022, 12, 055228.	1.3	0
4	Gravitational Wave in f(R) Gravity: Possible Signature of Sub- and Super-Chandrasekhar Limiting-mass White Dwarfs. Astrophysical Journal, 2021, 909, 65.	4.5	10
5	Significantly super-Chandrasekhar mass-limit of white dwarfs in noncommutative geometry. International Journal of Modern Physics D, 2021, 30, 2150034.	2.1	8
6	Super-Chandrasekhar limiting mass white dwarfs as emergent phenomena of noncommutative squashed fuzzy spheres. International Journal of Modern Physics D, 2021, 30, .	2.1	9
7	Resolving dichotomy in compact objects through continuous gravitational waves observation. Monthly Notices of the Royal Astronomical Society, 2021, 508, 842-851.	4.4	4
8	Origin of hydrodynamic instability from noise: From laboratory flow to accretion disk. Physical Review Fluids, 2021, 6, .	2.5	3
9	Forced Linear Shear Flows with Rotation: Rotating Couetteâ€"Poiseuille Flow, Its Stability, and Astrophysical Implications. Astrophysical Journal, 2021, 922, 161.	4.5	1
10	Relativistic Landau quantization in non-uniform magnetic field and its applications to white dwarfs and quantum information. SciPost Physics, 2021, 11, .	4.9	3
11	Effects of Anisotropy on Strongly Magnetized Neutron and Strange Quark Stars in General Relativity. Astrophysical Journal, 2021, 922, 149.	4.5	23
12	Hydrodynamical instability with noise in the Keplerian accretion discs: modified Landau equation. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4191-4208.	4.4	3
13	Editorial for the Special Issue â€œAccretion Disks, Jets, Gamma-Ray Bursts and Related Gravitational Wavesâ€. Universe, 2020, 6, 242.	2.5	0
14	Gravity-Induced Geometric Phases and Entanglement in Spinors and Neutrinos: Gravitational Zeeman Effect. Universe, 2020, 6, 160.	2.5	7
15	Modified virial theorem for highly magnetized white dwarfs. Monthly Notices of the Royal Astronomical Society, 2020, 500, 763-771.	4.4	3
16	Role of magnetically dominated disc-outflow symbiosis on bright hard-state black hole sources: ultra-luminous X-ray sources to quasars. Monthly Notices of the Royal Astronomical Society, 2020, 495, 350-364.	4.4	2
17	Timescales for Detection of Super-Chandrasekhar White Dwarfs by Gravitational-wave Astronomy. Astrophysical Journal, 2020, 896, 69.	4.5	15
18	Suppression of luminosity and massâ€"radius relation of highly magnetized white dwarfs. Monthly Notices of the Royal Astronomical Society, 2020, 496, 894-902.	4.4	13

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19	Correlating the non-linear time series and spectral properties of IGR J17091â€“3624: is it similar to GRS 1915+105?. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4033-4042.	4.4	1
20	Continuous gravitational wave from magnetized white dwarfs and neutron stars: possible missions for LISA, DECIGO, BBO, ET detectors. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2692-2705.	4.4	27
21	Asymptotically flat vacuum solution in modified theory of Einsteinâ€™s gravity. European Physical Journal C, 2019, 79, 1.	3.9	16
22	Quantum correlations in neutrino oscillations in curved spacetime. Physical Review D, 2019, 100, .	4.7	13
23	FSRQ/BL Lac dichotomy as the magnetized advective accretion process around black holes: a unified classification of blazars. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3465-3472.	4.4	9
24	Nucleosynthesis in advective accretion disc and outflow: possible explanation for overabundances in winds from X-ray binaries. Monthly Notices of the Royal Astronomical Society, 2019, 486, 1641-1651.	4.4	2
25	Continuous gravitational waves from magnetized white dwarfs. Proceedings of the International Astronomical Union, 2019, 15, 79-83.	0.0	1
26	Ultraluminous X-ray sources as magnetically powered sub-Eddington advective accretion flows around stellar mass black holes. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 482, L24-L28.	3.3	12
27	Luminosity and cooling of highly magnetized white dwarfs: suppression of luminosity by strong magnetic fields. Monthly Notices of the Royal Astronomical Society, 2018, 477, 2705-2715.	4.4	20
28	Correlating non-linear properties with spectral states of RXTE data: possible observational evidences for four different accretion modes around compact objects. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1581-1595.	4.4	2
29	Magnetized advective accretion flows: formation of magnetic barriers in magnetically arrested discs. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2396-2409.	4.4	9
30	Modified Einstein's gravity to probe the sub- and super-Chandrasekhar limiting mass white dwarfs: a new perspective to unify under- and over-luminous type Ia supernovae. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 007-007.	5.4	22
31	Spinning Black Holes, Spinning Flows and Spinors. Thirty Years of Astronomical Discovery With UKIRT, 2018, , 3-15.	0.3	2
32	AR Sco as a possible seed of highly magnetized white dwarf. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3564-3569.	4.4	14
33	Spectral and time series analyses of the Seyfert 1 AGN: Zw 229.015. Monthly Notices of the Royal Astronomical Society, 2017, 466, 3951-3960.	4.4	10
34	Soft gamma-ray repeaters and anomalous X-ray pulsars as highly magnetized white dwarfs. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 007-007.	5.4	18
35	A PURE HYDRODYNAMIC INSTABILITY IN SHEAR FLOWS AND ITS APPLICATION TO ASTROPHYSICAL ACCRETION DISKS. Astrophysical Journal, 2016, 830, 86.	4.5	8
36	Exploring non-normality in magnetohydrodynamic rotating shear flows: Application to astrophysical accretion disks. Physical Review Fluids, 2016, 1, .	2.5	6

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37	Origin of nonlinearity and plausible turbulence by hydromagnetic transient growth in accretion disks: Faster growth rate than magnetorotational instability. Physical Review E, 2015, 92, 023005.	2.1	9
38	HYDROMAGNETICS OF ADVECTIVE ACCRETION FLOWS AROUND BLACK HOLES: REMOVAL OF ANGULAR MOMENTUM BY LARGE-SCALE MAGNETIC STRESSES. Astrophysical Journal, 2015, 807, 43.	4.5	7
39	GRMHD formulation of highly super-Chandrasekhar magnetized white dwarfs: stable configurations of non-spherical white dwarfs. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 016-016.	5.4	18
40	Modified Einstein's gravity as a possible missing link between sub- and super-Chandrasekhar type Ia supernovae. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 045-045.	5.4	33
41	GRMHD formulation of highly super-Chandrasekhar rotating magnetized white dwarfs: stable configurations of non-spherical white dwarfs. Monthly Notices of the Royal Astronomical Society, 2015, 454, 752-765.	4.4	34
42	Revisiting some physics issues related to the new mass limit for magnetized white dwarfs. Modern Physics Letters A, 2014, 29, 1450035.	1.2	21
43	Maximum mass of stable magnetized highly super-Chandrasekhar white dwarfs: stable solutions with varying magnetic fields. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 050-050.	5.4	34
44	Revised density of magnetized nuclear matter at the neutron drip line. Physical Review C, 2014, 89, .	2.9	10
45	Can the viscosity in astrophysical black hole accretion disks be close to its string theory bound?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 721, 151-158.	4.1	10
46	New Mass Limit for White Dwarfs: Super-Chandrasekhar Type Ia Supernova as a New Standard Candle. Physical Review Letters, 2013, 110, 071102.	7.8	106
47	Hypernuclear matter in strong magnetic field. Nuclear Physics A, 2013, 898, 43-58.	1.5	57
48	A POSSIBLE EVOLUTIONARY SCENARIO OF HIGHLY MAGNETIZED SUPER-CHANDRASEKHAR WHITE DWARFS: PROGENITORS OF PECULIAR TYPE Ia SUPERNOVAE. Astrophysical Journal Letters, 2013, 767, L14.	8.3	39
49	Stochastically driven instability in rotating shear flows. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 035501.	2.1	15
50	NEW MASS LIMIT OF WHITE DWARFS. International Journal of Modern Physics D, 2013, 22, 1342004.	2.1	13
51	Strongly magnetized cold degenerate electron gas: Mass-radius relation of the magnetized white dwarf. Physical Review D, 2012, 86, .	4.7	74
52	MASS OF HIGHLY MAGNETIZED WHITE DWARFS EXCEEDING THE CHANDRASEKHAR LIMIT: AN ANALYTICAL VIEW. Modern Physics Letters A, 2012, 27, 1250084.	1.2	35
53	VIOLATION OF CHANDRASEKHAR MASS LIMIT: THE EXCITING POTENTIAL OF STRONGLY MAGNETIZED WHITE DWARFS. International Journal of Modern Physics D, 2012, 21, 1242001.	2.1	31
54	Growing pseudo-eigenmodes and positive logarithmic norms in rotating shear flows. New Journal of Physics, 2011, 13, 023029.	2.9	11

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55	SEARCH FOR CHAOS IN NEUTRON STAR SYSTEMS: IS Cyg X-3 A BLACK HOLE?. Astrophysical Journal, 2010, 708, 862-867.	4.5	13
56	DISK-OUTFLOW COUPLING: ENERGETICS AROUND SPINNING BLACK HOLES. Astrophysical Journal, 2010, 713, 105-114.	4.5	14
57	Two-temperature accretion around rotating black holes: a description of the general advective flow paradigm in the presence of various cooling processes to explain low to high luminous sources. Monthly Notices of the Royal Astronomical Society, 2010, 402, 961-984.	4.4	42
58	2.5-dimensional solution of the advective accretion disk: a self-similar approach. Research in Astronomy and Astrophysics, 2009, 9, 157-167.	1.7	9
59	CPT and lepton number violation in the neutrino sector: Modified mass matrix and oscillation due to gravity. Physical Review D, 2008, 77, .	4.7	16
60	Gravity-induced neutrinoâ€"antineutrino oscillation: CPT and lepton number non-conservation under gravity. Classical and Quantum Gravity, 2007, 24, 1433-1442.	4.0	26
61	SPACETIME CURVATURE COUPLING OF SPINORS IN EARLY UNIVERSE: NEUTRINO ASYMMETRY AND A POSSIBLE SOURCE OF BARYOGENESIS. Modern Physics Letters A, 2006, 21, 399-408.	1.2	26
62	NEUTRINO ASYMMETRY IN PRESENCE OF GRAVITATIONAL INTERACTION. , 2006, , .		0
63	STABILITY OF ACCRETION DISK AROUND ROTATING BLACK HOLES. , 2006, , .		0
64	SCALAR AND SPINOR PERTURBATION TO THE MOST GENERALISED KERR-NUT SPACE-TIME. , 2006, , .		0
65	THEORETICAL DESCRIPTION OF KHZ QPOS IN ACCRETING LMXB SYSTEMS. , 2006, , .		0
66	Bypass to Turbulence in Hydrodynamic Accretion Disks: An Eigenvalue Approach. Astrophysical Journal, 2005, 629, 383-396.	4.5	62
67	NEUTRINO ASYMMETRY AROUND BLACK HOLES: NEUTRINOS INTERACT WITH GRAVITY. Modern Physics Letters A, 2005, 20, 2145-2155.	1.2	33
68	Bypass to Turbulence in Hydrodynamic Accretion: Lagrangian Analysis of Energy Growth. Astrophysical Journal, 2005, 629, 373-382.	4.5	80
69	Chaotic behavior of micro quasar GRS 1915+105. AIP Conference Proceedings, 2004, , .	0.4	1
70	Neutrinoâ€"antineutrino asymmetry around rotating black holes. Pramana - Journal of Physics, 2004, 62, 775-778.	1.8	5
71	Global solution for a viscous accretion disc around a rotating compact object: pseudo-general-relativistic study. Monthly Notices of the Royal Astronomical Society, 2003, 342, 274-286.	4.4	25
72	GRAVITATIONALLY INDUCED NEUTRINO ASYMMETRY. Modern Physics Letters A, 2003, 18, 779-785.	1.2	22

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73	Stability of Accretion Disks around Rotating Black Holes: A Pseudoâ€"Generalâ€Relativistic Fluid Dynamical Study. Astrophysical Journal, 2003, 586, 1268-1279.	4.5	26
74	Description of Pseudoâ€Newtonian Potential for the Relativistic Accretion Disks around Kerr Black Holes. Astrophysical Journal, 2002, 581, 427-430.	4.5	82
75	Geometric phase for Dirac Hamiltonian under gravitational fields in the nonrelativistic regime. International Journal of Modern Physics D, 0, , 2150090.	2.1	2
76	Angular momentum transport and thermal stabilization of optically thin, advective accretion flows through large-scale magnetic fields. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	1