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List of Publications by Year
in descending order

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27 papers	1,248 citations	471509 17 h-index	526287 27 g-index
27 all docs	27 docs citations	27 times ranked	792 citing authors

#	Article	IF	Citations
1	Proto-neutron star evolution with improved charged-current neutrinoâ€“nucleon interactions. Monthly Notices of the Royal Astronomical Society, 2022, 511, 356-370.	4.4	21
2	Structure of ultra-magnetised neutron stars. European Physical Journal A, 2021, 57, 1.	2.5	5
3	Improved neutrino-nucleon interactions in dense and hot matter for numerical simulations. Physical Review C, 2020, 102, .	2.9	11
4	Impact of electron capture rates for nuclei far from stability on core-collapse supernovae. Physical Review C, 2020, 101, .	2.9	14
5	Magnetic field distribution in magnetars. Physical Review C, 2019, 99, .	2.9	32
6	New temperature dependent hyperonic equation of state: Application to rotating neutron star models and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>I</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi>Q</m relations. Physical Review C, 2017, 96, .	2.9	67
7	Numerical models for stationary superfluid neutron stars in general relativity with realistic equations of state. Physical Review D, 2016, 93, .	4.7	19
8	Consistent neutron star models with magnetic-field-dependent equations of state. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3785-3796.	4.4	102
9	Excision scheme for black holes in constrained evolution formulations: Spherically symmetric case. Physical Review D, 2014, 90, .	4.7	3
10	General relativistic neutrino transport using spectral methods. Classical and Quantum Gravity, 2014, 31, 045012.	4.0	17
11	Influence of pions and hyperons on stellar black hole formation. Physical Review D, 2013, 87, .	4.7	37
12	External field effect of modified Newtonian dynamics in the Solar system. Monthly Notices of the Royal Astronomical Society, 2011, 412, 2530-2542.	4.4	73
13	Numerical simulations of GRB engines. Comptes Rendus Physique, 2011, 12, 246-254.	0.9	1
14	Excised black hole spacetimes: Quasilocal horizon formalism applied to the Kerr example. Physical Review D, 2009, 79, .	4.7	16
15	Improved constrained scheme for the Einstein equations: An approach to the uniqueness issue. Physical Review D, 2009, 79, .	4.7	112
16	Spectral Methods for Numerical Relativity. Living Reviews in Relativity, 2009, 12, 1.	26.7	133
17	Mathematical issues in a fully constrained formulation of the Einstein equations. Physical Review D, 2008, 77, .	4.7	51
18	A new spectral apparent horizon finder for 3D numerical relativity. Classical and Quantum Gravity, 2007, 24, 2665-2676.	4.0	17

#	Article	IF	Citations
19	A fast stroboscopic spectral method for rotating systems in numerical relativity. Classical and Quantum Gravity, 2007, 24, 4037-4051.	4.0	2
20	Rotating star initial data for a constrained scheme in numerical relativity. Classical and Quantum Gravity, 2006, 23, 4545-4561.	4.0	14
21	Combining spectral and shock-capturing methods: A new numerical approach for 3D relativistic core collapse simulations. Physical Review D, 2005, 71, .	4.7	89
22	Relativistic numerical models for stationary superfluid neutron stars. Physical Review D, 2005, 71, .	4.7	39
23	Constrained scheme for the Einstein equations based on the Dirac gauge and spherical coordinates. Physical Review D, 2004, 70, .	4.7	139
24	Absorbing boundary conditions for simulation of gravitational waves with spectral methods in spherical coordinates. Journal of Computational Physics, 2004, 197, 186-196.	3.8	22
25	Gravitational Waves from the Collapse and Bounce of a Stellar Core in Tensorâ€scalar Gravity. Astrophysical Journal, 2000, 533, 392-405.	4.5	41
26	Spherical neutron star collapse toward a black hole in a tensor-scalar theory of gravity. Physical Review D, 1998, 57, 4789-4801.	4.7	87
27	Neutron star transition to a strong-scalar-field state in tensor-scalar gravity. Physical Review D, 1998, 58, .	4.7	84