Vasileios Paschalidis

List of Publications by Year
in descending order

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Version: 2024-02-01

64 papers	2,987 citations	147801 31 h-index	161849 54 g-index
64 all docs	64 docs citations	64 times ranked	2385 citing authors

#	Article	IF	Citations
1	Implications from GW170817 and I-Love-Q relations for relativistic hybrid stars. Physical Review D, 2018, 97, .	4.7	192
2	BINARY NEUTRON STAR MERGERS: A JET ENGINE FOR SHORT GAMMA-RAY BURSTS. Astrophysical Journal Letters, 2016, 824, L6.	8.3	163
3	Rotating stars in relativity. Living Reviews in Relativity, 2017, 20, 7.	26.7	137
4	RELATIVISTIC SIMULATIONS OF BLACK HOLEâ€“NEUTRON STAR COALESCENCE: THE JET EMERGES. Astrophysical Journal Letters, 2015, 806, L14.	8.3	131
5	Error-analysis and comparison to analytical models of numerical waveforms produced by the NRAR Collaboration. Classical and Quantum Gravity, 2013, 31, 025012.	4.0	123
6	The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binaries. Classical and Quantum Gravity, 2012, 29, 124001.	4.0	106
7	Relativistic simulations of eccentric binary neutron star mergers: One-arm spiral instability and effects of neutron star spin. Physical Review D, 2016, 93, .	4.7	102
8	Binary Black-Hole Mergers in Magnetized Disks: Simulations in Full General Relativity. Physical Review Letters, 2012, 109, 221102.	7.8	98
9	General relativistic simulations of compact binary mergers as engines for short gamma-ray bursts. Classical and Quantum Gravity, 2017, 34, 084002.	4.0	98
10	IllinoisGRMHD: an open-source, user-friendly GRMHD code for dynamical spacetimes. Classical and Quantum Gravity, 2015, 32, 175009.	4.0	95
11	Accretion disks around binary black holes of unequal mass: General relativistic magnetohydrodynamic simulations near decoupling. Physical Review D, 2014, 89, .	4.7	87
12	General relativistic simulations of black-holeâ€“neutron-star mergers: Effects of magnetic fields. Physical Review D, 2012, 85, .	4.7	85
13	One-arm spiral instability in hypermassive neutron stars formed by dynamical-capture binary neutron star mergers. Physical Review D, 2015, 92, .	4.7	84
14	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	26.7	82
15	Black Hole Spectroscopy with Coherent Mode Stacking. Physical Review Letters, 2017, 118, 161101.	7.8	81
16	General-relativistic simulations of binary black hole-neutron stars: Precursor electromagnetic signals. Physical Review D, 2013, 88, .	4.7	72
17	Relativistic magnetohydrodynamics in dynamical spacetimes: Improved electromagnetic gauge condition for adaptive mesh refinement grids. Physical Review D, 2012, 85, .	4.7	69
18	Accretion disks around binary black holes of unequal mass: General relativistic MHD simulations of postdecoupling and merger. Physical Review D, 2014, 90, .	4.7	64

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19	Importance of cooling in triggering the collapse of hypermassive neutron stars. Physical Review D, 2012, 86, .	4.7	63
20	General-relativistic simulations of black-holeâ€“neutron-star mergers: Effects of tilted magnetic fields. Physical Review D, 2012, 86, .	4.7	62
21	Multimessenger Constraints for Ultradense Matter. Physical Review X, 2022, 12, .	8.9	61
22	Gravitational wave spectroscopy of binary neutron star merger remnants with mode stacking. Physical Review D, 2018, 97, .	4.7	59
23	Merger of binary white dwarfâ€“neutron stars: Simulations in full general relativity. Physical Review D, 2011, 84, .	4.7	51
24	Equation of state effects and one-arm spiral instability in hypermassive neutron stars formed in eccentric neutron star mergers. Classical and Quantum Gravity, 2016, 33, 244004.	4.0	46
25	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. Classical and Quantum Gravity, 2014, 31, 115004.	4.0	42
26	Searches after Gravitational Waves Using ARizona Observatories (SAGUARO): System Overview and First Results from Advanced LIGO/Virgoâ€™s Third Observing Run. Astrophysical Journal Letters, 2019, 881, L26.	8.3	41
27	General Relativistic Simulations of the Quasicircular Inspiral and Merger of Charged Black Holes: GW150914 and Fundamental Physics Implications. Physical Review Letters, 2021, 126, 041103.	7.8	40
28	Effects of spin on magnetized binary neutron star mergers and jet launching. Physical Review D, 2019, 99, .	4.7	39
29	Evolution of highly eccentric binary neutron stars including tidal effects. Physical Review D, 2018, 98, .	4.7	35
30	ECCENTRIC MERGERS OF BLACK HOLES WITH SPINNING NEUTRON STARS. Astrophysical Journal Letters, 2015, 807, L3.	8.3	34
31	Realistic finite-temperature effects in neutron star merger simulations. Physical Review D, 2021, 104, .	4.7	34
32	Merger of white dwarf-neutron star binaries: Prelude to hydrodynamic simulations in general relativity. Physical Review D, 2009, 80, .	4.7	31
33	Maximum mass and universal relations of rotating relativistic hybrid hadron-quark stars. European Physical Journal A, 2019, 55, 1.	2.5	30
34	A new scheme for matching general relativistic ideal magnetohydrodynamics to its force-free limit. Physical Review D, 2013, 88, .	4.7	29
35	Disks around merging binary black holes: From GW150914 to supermassive black holes. Physical Review D, 2018, 97, .	4.7	29
36	Head-on collisions of binary white dwarf-neutron stars: Simulations in full general relativity. Physical Review D, 2011, 83, .	4.7	28

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37	Addendum to â€˜The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binariesâ€™. Classical and Quantum Gravity, 2013, 30, 199401.	4.0	28
38	Magnetorotational collapse of supermassive stars: Black hole formation, gravitational waves, and jets. Physical Review D, 2017, 96, .	4.7	27
39	Binary neutron star mergers: Effects of spin and post-merger dynamics. Physical Review D, 2019, 100, .	4.7	27
40	Pulsar spin-down luminosity: Simulations in general relativity. Physical Review D, 2014, 89, .	4.7	26
41	Searches after Gravitational Waves Using ARizona Observatories (SAGUARO): Observations and Analysis from Advanced LIGO/Virgo's Third Observing Run. Astrophysical Journal, 2021, 912, 128.	4.5	24
42	Self-interacting dark matter cusps around massive black holes. Physical Review D, 2014, 89, .	4.7	23
43	Effect of spin on the inspiral of binary neutron stars. Physical Review D, 2019, 100, .	4.7	22
44	Minidisk Dynamics in Accreting, Spinning Black Hole Binaries: Simulations in Full General Relativity. Astrophysical Journal Letters, 2021, 910, L26.	8.3	20
45	Numerical-relativity simulations of the quasicircular inspiral and merger of nonspinning, charged black holes: Methods and comparison with approximate approaches. Physical Review D, 2021, 104, .	4.7	20
46	Revisiting the maximum mass of differentially rotating neutron stars in general relativity with realistic equations of state. Physical Review D, 2019, 99, .	4.7	15
47	Black hole-neutron star coalescence: Effects of the neutron star spin on jet launching and dynamical ejecta mass. Physical Review D, 2020, 102, .	4.7	15
48	Constraint propagation equations of the 3+1 decomposition of f (R) gravity. Classical and Quantum Gravity, 2011, 28, 085006.	4.0	13
49	Dynamical stability of quasitoroidal differentially rotating neutron stars. Physical Review D, 2019, 100, .	4.7	13
50	Improved moving puncture gauge conditions for compact binary evolutions. Physical Review D, 2014, 90, .	4.7	12
51	Initial data for general relativistic simulations of multiple electrically charged black holes with linear and angular momenta. Physical Review D, 2019, 99, .	4.7	12
52	Are fast radio bursts the most likely electromagnetic counterpart of neutron star mergers resulting in prompt collapse?. Physical Review D, 2019, 100, .	4.7	11
53	Mixed hyperbolicâ€”second-order-parabolic formulations of general relativity. Physical Review D, 2008, 78, .	4.7	9
54	Numerical performance of the parabolized ADM formulation of general relativity. Physical Review D, 2008, 78, .	4.7	9

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55	Gravitational wave content and stability of uniformly, rotating, triaxial neutron stars in general relativity. Physical Review D, 2017, 95, .	4.7	9
56	Fate of twin stars on the unstable branch: Implications for the formation of twin stars. Physical Review D, 2022, 105, .	4.7	9
57	Gravitational waves from disks around spinning black holes: Simulations in full general relativity. Physical Review D, 2021, 103, .	4.7	8
58	Improving the convergence order of binary neutron star merger simulations in the Baumgarte-Shapiro-Shibata-Nakamura formulation. Physical Review D, 2022, 106, .	4.7	6
59	Well-posed constrained evolution of3+1formulations of general relativity. Physical Review D, 2007, 75, .	4.7	5
60	The status of general relativistic simulations of compact binary mergers as engines of short gamma-ray bursts. Journal of Physics: Conference Series, 2017, 837, 012010.	0.4	1
61	Search for QPOs in Perseus with Fermi LAT. Proceedings of the International Astronomical Union, 2018, 14, 167-171.	0.0	0
62	Advanced Models of Black Holeâ€“Neutron Star Binaries and Their Astrophysical Impact. Thirty Years of Astronomical Discovery With UKIRT, 2015, , 59-74.	0.3	0
63	Generation of Initial Data for General-Relativistic Simulations of Charged Black Holes. Tutorials, Schools, and Workshops in the Mathematical Sciences, 2019, , 187-195.	0.3	0
64	Black Hole Physics and Computer Graphics. Computing in Science and Engineering, 2022, , 1-1.	1.2	0