

Nikolaos Stergioulas

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

6,022
citations

42
h-index

77
g-index

118
ext. papers

7,024
ext. citations

5.1
avg, IF

6.12
L-index

#	Paper	IF	Citations
104	Autoencoder-driven spiral representation learning for gravitational wave surrogate modelling. <i>Neurocomputing</i> , 2022 , 491, 67-77	5.4	1
103	Models of binary neutron star remnants with tabulated equations of state. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 510, 2948-2967	4.3	1
102	GW190814: on the properties of the secondary component of the binary. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 505, 1600-1606	4.3	21
101	Systematics of prompt black-hole formation in neutron star mergers. <i>Physical Review D</i> , 2021 , 103,	4.9	8
100	Equilibrium sequences of differentially rotating stars with post-merger-like rotational profiles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 503, 850-866	4.3	4
99	Differentially Rotating Relativistic Stars beyond the J-Constant Law. <i>Physical Sciences Forum</i> , 2021 , 2, 62		
98	Frequency deviations in universal relations of isolated neutron stars and postmerger remnants. <i>Physical Review D</i> , 2021 , 104,	4.9	2
97	Probing the nature of black holes: Deep in the mHz gravitational-wave sky. <i>Experimental Astronomy</i> , 2021 , 51, 1385-1416	1.3	5
96	The gravitational wave damping timescales of f-modes in neutron stars. <i>Journal of Physics: Conference Series</i> , 2020 , 1667, 012026	0.3	1
95	Empirical relations for gravitational-wave asteroseismology of binary neutron star mergers. <i>Physical Review D</i> , 2020 , 101,	4.9	20
94	Numerical-relativity simulations of long-lived remnants of binary neutron star mergers. <i>Physical Review D</i> , 2020 , 101,	4.9	16
93	Astrophysical implications of neutron star inspiral and coalescence. <i>International Journal of Modern Physics D</i> , 2020 , 29, 2041015	2.2	11
92	Parametrized equation of state for neutron star matter with continuous sound speed. <i>Physical Review D</i> , 2020 , 102,	4.9	8
91	Equation of State Constraints from the Threshold Binary Mass for Prompt Collapse of Neutron Star Mergers. <i>Physical Review Letters</i> , 2020 , 125, 141103	7.4	43
90	Rotating black holes in higher order gravity. <i>Physical Review D</i> , 2019 , 100,	4.9	36
89	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019 , 36, 143001	3.3	248
88	Spectral classification of gravitational-wave emission and equation of state constraints in binary neutron star mergers. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019 , 46, 113002	2.9	22

87	Equation-of-state constraints and the QCD phase transition in the era of gravitational-wave astronomy 2019 ,		29
86	Universal relations for differentially rotating relativistic stars at the threshold to collapse. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 3557-3564	4.3	24
85	Constraining properties of high-density matter in neutron stars with magneto-elastic oscillations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 476, 4199-4212	4.3	11
84	Universal and approximate relations for the gravitational-wave damping timescale of f-modes in neutron stars. <i>General Relativity and Gravitation</i> , 2018 , 50, 1	2.3	12
83	Differentially rotating neutron stars in scalar-tensor theories of gravity. <i>Physical Review D</i> , 2018 , 98,	4.9	12
82	Convective Excitation of Inertial Modes in Binary Neutron Star Mergers. <i>Physical Review Letters</i> , 2018 , 120, 221101	7.4	21
81	Neutron-star Radius Constraints from GW170817 and Future Detections. <i>Astrophysical Journal Letters</i> , 2017 , 850, L34	7.9	332
80	Rotating stars in relativity. <i>Living Reviews in Relativity</i> , 2017 , 20, 7	32.5	97
79	Semi-analytic derivation of the threshold mass for prompt collapse in binary neutron-star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 471, 4956-4965	4.3	42
78	Magneto-elastic oscillations modulating the emission of magnetars. <i>Astronomische Nachrichten</i> , 2017 , 338, 1105-1108	0.7	2
77	Dynamics and gravitational-wave emission of neutron-star merger remnants 2017 ,		2
76	Numerical relativity simulations of thick accretion disks around tilted Kerr black holes. <i>Physical Review D</i> , 2016 , 93,	4.9	19
75	On the dynamics of tilted black hole-Eorus systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 461, 2480-2489	4.3	11
74	The LOFT mission concept: a status update 2016 ,		7
73	Coherent magneto-elastic oscillations in superfluid magnetars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 460, 4242-4257	4.3	10
72	XIPE: the x-ray imaging polarimetry explorer 2016 ,		5
71	Observing gravitational waves from the post-merger phase of binary neutron star coalescence. <i>Classical and Quantum Gravity</i> , 2016 , 33, 085003	3.3	99
70	Exploring properties of high-density matter through remnants of neutron-star mergers. <i>European Physical Journal A</i> , 2016 , 52, 1	2.5	80

69	Radiation from charged particles on eccentric orbits in a dipolar magnetic field around a Schwarzschild black hole. <i>General Relativity and Gravitation</i> , 2015 , 47, 1	2.3	2
68	Magnetized neutron stars with superconducting cores: effect of entrainment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 452, 3246-3255	4.3	6
67	Neutron-star properties from the postmerger gravitational wave signal of binary neutron stars. <i>Physics of Particles and Nuclei</i> , 2015 , 46, 835-838	0.7	3
66	Unified picture of the post-merger dynamics and gravitational wave emission in neutron star mergers. <i>Physical Review D</i> , 2015 , 91,	4.9	93
65	General Relativistic Simulations of Accretion Disks Around Tilted Kerr Black Holes. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2015 , 121-127	0.3	
64	Relativistic astrophysics at GR20. <i>General Relativity and Gravitation</i> , 2014 , 46, 1	2.3	
63	BREAKDOWN OF I-LOVE-Q UNIVERSALITY IN RAPIDLY ROTATING RELATIVISTIC STARS. <i>Astrophysical Journal Letters</i> , 2014 , 781, L6	7.9	84
62	On the accuracy of the IWMFC approximation in differentially rotating relativistic stars. <i>General Relativity and Gravitation</i> , 2014 , 46, 1	2.3	8
61	Prospects for high frequency burst searches following binary neutron star coalescence with advanced gravitational wave detectors. <i>Physical Review D</i> , 2014 , 90,	4.9	55
60	Epicyclic frequencies for rotating strange quark stars: Importance of stellar oblateness. <i>Physical Review D</i> , 2014 , 89,	4.9	11
59	Revealing the high-density equation of state through binary neutron star mergers. <i>Physical Review D</i> , 2014 , 90,	4.9	93
58	Modulating magnetar emission by magneto-elastic oscillations. <i>Astronomische Nachrichten</i> , 2014 , 335, 240-245	0.7	3
57	Orbital and epicyclic frequencies around rapidly rotating compact stars in scalar-tensor theories of gravity. <i>Physical Review D</i> , 2014 , 90,	4.9	30
56	The Large Observatory for x-ray timing 2014 ,		9
55	Modulating the magnetosphere of magnetars by internal magneto-elastic oscillations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 443, 1416-1424	4.3	18
54	Instabilities of Relativistic Stars 2014 , 427-458		2
53	Introducing the CTA concept. <i>Astroparticle Physics</i> , 2013 , 43, 3-18	2.4	389
52	Magneto-elastic oscillations of neutron stars: exploring different magnetic field configurations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 430, 1811-1831	4.3	48

51	Rapidly rotating neutron stars in scalar-tensor theories of gravity. <i>Physical Review D</i> , 2013 , 88,	4.9	82
50	Imprints of superfluidity on magnetoelastic quasiperiodic oscillations of soft gamma-ray repeaters. <i>Physical Review Letters</i> , 2013 , 111, 211102	7.4	25
49	The runaway instability in general relativistic accretion discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 431, 349-354	4.3	23
48	The IWMFC approximation in differentially rotating relativistic stars. <i>Journal of Physics: Conference Series</i> , 2013 , 453, 012004	0.3	3
47	Rotating Relativistic Stars 2013 ,		157
46	Magnetoelastic oscillations of neutron stars with dipolar magnetic fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 421, 2054-2078	4.3	65
45	The Large Observatory for X-ray Timing (LOFT). <i>Experimental Astronomy</i> , 2012 , 34, 415-444	1.3	148
44	LOFT: the Large Observatory For X-ray Timing 2012 ,		21
43	Relativistic MHD simulations of stellar core collapse and magnetars. <i>Journal of Physics: Conference Series</i> , 2011 , 283, 012011	0.3	
42	Black hole spacetimes with self-gravitating, massive accretion tori. <i>Journal of Physics: Conference Series</i> , 2011 , 283, 012036	0.3	7
41	Stability of relativistic stars 2011 , 75-100		1
40	Gravitational waves and non-axisymmetric oscillation modes in mergers of compact object binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 418, 427-436	4.3	106
39	Magneto-elastic oscillations and the damping of crustal shear modes in magnetars. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011 , 410, L37-L41	4.3	62
38	Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. <i>Experimental Astronomy</i> , 2011 , 32, 193-316	1.3	496
37	Stationary, axisymmetric neutron stars with meridional circulation in general relativity. <i>Physical Review D</i> , 2011 , 84,	4.9	10
36	Collapse of differentially rotating neutron stars and cosmic censorship. <i>Physical Review D</i> , 2011 , 84,	4.9	63
35	Stability of general-relativistic accretion disks. <i>Physical Review D</i> , 2011 , 83,	4.9	46
34	Magneto-elastic torsional oscillations of magnetars. <i>Journal of Physics: Conference Series</i> , 2011 , 283, 012013	0.3	1

33	AN IMPROVED METHOD FOR CONSTRUCTING MODELS OF SELF-GRAVITATING TORI AROUND BLACK HOLES. <i>International Journal of Modern Physics D</i> , 2011 , 20, 1251-1263	2.2	13
32	Frequency band of the f-mode Chandrasekhar-Friedman-Schutz instability. <i>Physical Review D</i> , 2010 , 81,	4.9	31
31	Alfvén QPOs in magnetars in the anelastic approximation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 397, 1607-1620	4.3	54
30	Alfvén QPOs in Magnetars. <i>Journal of Physics: Conference Series</i> , 2009 , 189, 012038	0.3	
29	Numerical Simulations of Black Hole Formation. <i>Lecture Notes in Physics</i> , 2009 , 177-208	0.8	1
28	Alfvén quasi-periodic oscillations in magnetars. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008 , 385, L5-L9	4.3	82
27	Nonaxisymmetric instability and fragmentation of general relativistic quasitoroidal stars. <i>Physical Review D</i> , 2007 , 76,	4.9	26
26	Torsional oscillations of relativistic stars with dipole magnetic fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 375, 261-277	4.3	117
25	Gravitational waves from nonlinear couplings of radial and polar nonradial modes in relativistic stars. <i>Physical Review D</i> , 2007 , 75,	4.9	25
24	Supermassive Black Hole Formation through Rotational Instabilities. <i>Journal of Physics: Conference Series</i> , 2007 , 68, 012050	0.3	
23	Formation of supermassive black holes through fragmentation of toroidal supermassive stars. <i>Physical Review Letters</i> , 2006 , 96, 161101	7.4	21
22	Non-linear axisymmetric pulsations of rotating relativistic stars in the conformal flatness approximation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 368, 1609-1630	4.3	75
21	THREE-DIMENSIONAL RELATIVISTIC SIMULATIONS OF ROTATING NEUTRON-STAR COLLAPSE TO A KERR BLACK HOLE 2006 , 75-82		1
20	Three-dimensional relativistic simulations of rotating neutron-star collapse to a Kerr black hole. <i>Physical Review D</i> , 2005 , 71,	4.9	231
19	Approximate matching of analytic and numerical solutions for rapidly rotating neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 350, 1416-1430	4.3	59
18	Non-linear pulsations in differentially rotating neutron stars: mass-shedding-induced damping and splitting of the fundamental mode. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 352, 1089-1101	4.3	75
17	Nonlinear Resonance in the Accretion Disk of a Millisecond Pulsar. <i>Astrophysical Journal</i> , 2004 , 603, L89-L92	4.9	89
16	Rotating Stars in Relativity. <i>Living Reviews in Relativity</i> , 2003 , 6, 3	32.5	299

15	Time evolution of the linear perturbations of a rotating Newtonian polytrope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002 , 334, 933-940	4-3	20
14	Nonlinear r-modes in neutron stars: Instability of an unstable mode. <i>Physical Review D</i> , 2002 , 66,	4-9	35
13	Three-dimensional numerical general relativistic hydrodynamics. II. Long-term dynamics of single relativistic stars. <i>Physical Review D</i> , 2002 , 65,	4-9	119
12	Axisymmetric modes of rotating relativistic stars in the Cowling approximation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 325, 1463-1470	4-3	42
11	Torsional oscillations of magnetized relativistic stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 328, 1161-1168	4-3	43
10	Nonlinear r-modes in rapidly rotating relativistic stars. <i>Physical Review Letters</i> , 2001 , 86, 1148-51	7-4	75
9	Non-linear hydrodynamical evolution of rotating relativistic stars: numerical methods and code tests. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000 , 313, 678-688	4-3	50
8	Towards a stable numerical evolution of strongly gravitating systems in general relativity: The conformal treatments. <i>Physical Review D</i> , 2000 , 62,	4-9	134
7	r-Mode Runaway and Rapidly Rotating Neutron Stars. <i>Astrophysical Journal</i> , 2000 , 534, L75-L78	4-7	91
6	Quasi-normal Modes of Rotating Relativistic Stars: Neutral Modes for Realistic Equations of State. <i>Astrophysical Journal</i> , 1999 , 510, 854-861	4-7	37
5	On the Relevance of the r-Mode Instability for Accreting Neutron Stars and White Dwarfs. <i>Astrophysical Journal</i> , 1999 , 516, 307-314	4-7	175
4	Rotating Stars in Relativity. <i>Living Reviews in Relativity</i> , 1998 , 1, 8	32-5	42
3	Nonaxisymmetric Neutral Modes in Rotating Relativistic Stars. <i>Astrophysical Journal</i> , 1998 , 492, 301-322	4-7	90
2	Upper Limits Set by Causality on the Rotation and Mass of Uniformly Rotating Relativistic Stars. <i>Astrophysical Journal</i> , 1997 , 488, 799-806	4-7	85
1	Comparing models of rapidly rotating relativistic stars constructed by two numerical methods. <i>Astrophysical Journal</i> , 1995 , 444, 306	4-7	349