

Approximate universal relations for neutron stars and o

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Scalarization of neutron stars with realistic equations of state. <i>Physical Review D</i> , 2017, 96, .	1.6	39
2	Solar System constraints on massless scalar-tensor gravity with positive coupling constant upon cosmological evolution of the scalar field. <i>Physical Review D</i> , 2017, 96, .	1.6	30
3	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	3.0	156
4	Rotating stars in relativity. <i>Living Reviews in Relativity</i> , 2017, 20, 7.	8.2	137
5	Neutron stars, ungravity, and the I-Love-Q relations. <i>Physical Review D</i> , 2017, 96, .	1.6	2
6	Tidal Love numbers and momenta–Love relations of polytropic stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 4965-4981.	1.6	11
7	Implications from GW170817 and I-Love-Q relations for relativistic hybrid stars. <i>Physical Review D</i> , 2018, 97, .	1.6	192
8	Gravitational wave spectroscopy of binary neutron star merger remnants with mode stacking. <i>Physical Review D</i> , 2018, 97, .	1.6	59
9	I-Love-Q relations for neutron stars in dynamical Chern Simons gravity. <i>Classical and Quantum Gravity</i> , 2018, 35, 025009.	1.5	21
10	Using Gravitational-wave Observations and Quasi-universal Relations to Constrain the Maximum Mass of Neutron Stars. <i>Astrophysical Journal Letters</i> , 2018, 852, L25.	3.0	559
11	Tidal Deformability from GW170817 as a Direct Probe of the Neutron Star Radius. <i>Astrophysical Journal Letters</i> , 2018, 857, L23.	3.0	191
12	Extended I-Love relations for slowly rotating neutron stars. <i>Physical Review D</i> , 2018, 97, .	1.6	16
13	Testing the Formation Scenarios of Binary Neutron Star Systems with Measurements of the Neutron Star Moment of Inertia. <i>Astrophysical Journal</i> , 2018, 856, 19.	1.6	6
14	I-Love-Q to the extreme. <i>Classical and Quantum Gravity</i> , 2018, 35, 015005.	1.5	7
15	Convection and cracking stability of spheres in general relativity. <i>European Physical Journal C</i> , 2018, 78, 1.	1.4	17
16	Waveform systematics for binary neutron star gravitational wave signals: Effects of the point-particle baseline and tidal descriptions. <i>Physical Review D</i> , 2018, 98, .	1.6	37
17	Holographic compact stars meet gravitational wave constraints. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	43
18	Astrophysical tests of screened modified gravity. <i>International Journal of Modern Physics D</i> , 2018, 27, 1848008.	0.9	37

#	ARTICLE	IF	CITATIONS
19	Universal Relations and Alternative Gravity Theories. Astrophysics and Space Science Library, 2018, , 737-806.	1.0	19
20	Gravitational Wave Signatures of Crystalline Color Superconductors. , 2018, , .		0
21	Magnetic tidal Love numbers clarified. Physical Review D, 2018, 98, .	1.6	28
22	Axial quasinormal modes of neutron stars in R2 gravity. Physical Review D, 2018, 98, .	1.6	19
23	Constraints on the Moment of Inertia of PSR J0737-3039A from GW170817. Astrophysical Journal Letters, 2018, 868, L22.	3.0	52
24	Gravitational Waves from Merging Binary Neutron-Star Systems. Astrophysics and Space Science Library, 2018, , 575-635.	1.0	6
25	Tidal Love numbers of neutron stars in f(R) gravity. European Physical Journal C, 2018, 78, 818.	1.4	36
26	Remnant baryon mass in neutron star-black hole mergers: Predictions for binary neutron star mimickers and rapidly spinning black holes. Physical Review D, 2018, 98, .	1.6	146
27	Multiband gravitational-wave astronomy: Observing binary inspirals with a decihertz detector, B-DECIGO. Progress of Theoretical and Experimental Physics, 2018, 2018, .	1.8	104
28	GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101.	2.9	1,473
29	On parametrized cold dense matter equation-of-state inference. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1093-1131.	1.6	28
30	Measuring the neutron star tidal deformability with equation-of-state-independent relations and gravitational waves. Physical Review D, 2018, 97, .	1.6	99
31	New Constraints on Radii and Tidal Deformabilities of Neutron Stars from GW170817. Physical Review Letters, 2018, 120, 261103.	2.9	527
32	Gravitational-wave astrophysics from neutron star inspiral and coalescence. International Journal of Modern Physics D, 2018, 27, 1843018.	0.9	7
33	Rotating Quark Stars in General Relativity. Universe, 2018, 4, 48.	0.9	2
34	Universal Relations for Innermost Stable Circular Orbits around Rapidly Rotating Neutron Stars. Astrophysical Journal, 2018, 861, 141.	1.6	13
35	Moment of inertia, quadrupole moment, Love number of neutron star and their relations with strange-matter equations of state. European Physical Journal A, 2018, 54, 1.	1.0	20
37	Improving the NRTidal model for binary neutron star systems. Physical Review D, 2019, 100, .	1.6	119

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38	Gravitational waves from neutron star mergers and their relation to the nuclear equation of state. <i>Progress in Particle and Nuclear Physics</i> , 2019, 109, 103714.	5.6	152
39	Constraining compact star properties with nuclear saturation parameters. <i>Physical Review C</i> , 2019, 100, .	1.1	32
40	Surrogate model for an aligned-spin effective-one-body waveform model of binary neutron star inspirals using Gaussian process regression. <i>Physical Review D</i> , 2019, 100, .	1.6	57
41	Light-curve models of black hole “neutron star mergers: steps towards a multi-messenger parameter estimation. <i>Astronomy and Astrophysics</i> , 2019, 625, A152.	2.1	60
42	Reduced-order surrogate models for scalar-tensor gravity in the strong field regime and applications to binary pulsars and GW170817. <i>Physical Review D</i> , 2019, 100, .	1.6	22
43	Observability of sharp phase transitions in neutron stars. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
44	Inferring neutron star properties from GW170817 with universal relations. <i>Physical Review D</i> , 2019, 99, .	1.6	56
45	Signatures for quark matter from multi-messenger observations. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 114001.	1.4	44
46	Neutron star masses and radii. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	3
47	Universal relations for neutron stars: Selected recent works. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
48	GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo during the First and Second Observing Runs. <i>Physical Review X</i> , 2019, 9, .	2.8	2,022
49	Maximum mass and universal relations of rotating relativistic hybrid hadron-quark stars. <i>European Physical Journal A</i> , 2019, 55, 1.	1.0	30
50	Hadron matter in neutron stars in view of gravitational wave observations. <i>Progress in Particle and Nuclear Physics</i> , 2019, 109, 103715.	5.6	17
51	Innermost stable circular orbits of neutron stars in dilatonic-Einstein-Gauss-Bonnet theory. <i>Physical Review D</i> , 2019, 99, .	1.6	3
52	Constraining the Neutron Star Radius with Joint Gravitational-wave and Short Gamma-Ray Burst Observations of Neutron Star “Black Hole Coalescing Binaries. <i>Astrophysical Journal</i> , 2019, 877, 94.	1.6	17
53	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	1.5	451
54	Improved analytic modeling of neutron star interiors. <i>Physical Review D</i> , 2019, 99, .	1.6	24
55	Constraints on the neutron star equation of state from GW170817. <i>European Physical Journal A</i> , 2019, 55, 1.	1.0	48

#	ARTICLE	IF	CITATIONS
56	Tidal deformability with sharp phase transitions in binary neutron stars. <i>Physical Review D</i> , 2019, 99, .	1.6	97
57	Axial quasinormal modes of scalarized neutron stars with massive self-interacting scalar field. <i>Physical Review D</i> , 2019, 99, .	1.6	18
58	Multipole moments and universal relations for scalarized neutron stars. <i>Physical Review D</i> , 2019, 99, .	1.6	11
59	Impact of the neutron star crust on the tidal polarizability. <i>Physical Review C</i> , 2019, 99, .	1.1	48
60	Equation-of-state insensitive relations after GW170817. <i>Physical Review D</i> , 2019, 99, .	1.6	47
61	Quasinormal modes of compact objects in alternative theories of gravity. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	31
62	Neutron star universal relations with microscopic equations of state. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 034001.	1.4	39
63	Green's functions for geophysics: a review. <i>Reports on Progress in Physics</i> , 2019, 82, 106801.	8.1	92
64	Constraints on the equation of state from the stability condition of neutron stars. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	0.5	7
65	Universal relations for the Keplerian sequence of rotating neutron stars. <i>Physical Review D</i> , 2019, 99, .	1.6	12
66	Tidal deformability and other global parameters of compact stars with strong phase transitions. <i>Astronomy and Astrophysics</i> , 2019, 622, A174.	2.1	44
67	Two-layer compact stars with crystalline quark matter: Screening effect on the tidal deformability. <i>Physical Review D</i> , 2019, 99, .	1.6	16
68	Roles of crust and core in the tidal deformability of neutron stars. <i>International Journal of Modern Physics E</i> , 2019, 28, 1950081.	0.4	5
69	Theory-agnostic framework for dynamical scalarization of compact binaries. <i>Physical Review D</i> , 2019, 100, .	1.6	18
70	Distinguishing the nature of comparable-mass neutron star binary systems with multimessenger observations: GW170817 case study. <i>Physical Review D</i> , 2019, 100, .	1.6	54
71	Probing the equation of state of neutron star matter with gravitational waves from binary inspirals in light of GW170817: a brief review. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 123002.	1.4	31
72	Properties of the Binary Neutron Star Merger GW170817. <i>Physical Review X</i> , 2019, 9, .	2.8	728
73	An entropy-area law for neutron stars near the black hole threshold. <i>Classical and Quantum Gravity</i> , 2019, 36, 015010.	1.5	12

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74	Matter imprints in waveform models for neutron star binaries: Tidal and self-spin effects. <i>Physical Review D</i> , 2019, 99, .	1.6	144
75	Proto-neutron stars with heavy baryons and universal relations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 914-931.	1.6	40
76	Aligned-spin neutron-starâ€“black-hole waveform model based on the effective-one-body approach and numerical-relativity simulations. <i>Physical Review D</i> , 2020, 102, .	1.6	51
77	Stellar structure models in modified theories of gravity: Lessons and challenges. <i>Physics Reports</i> , 2020, 876, 1-75.	10.3	157
78	New quasi-universal relations for static and rapid rotating neutron stars. <i>Physical Review D</i> , 2020, 102, .	1.6	11
79	Tidal Love numbers of Proca stars. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 029-029.	1.9	13
80	Axisymmetric deformations of neutron stars and gravitational-wave astronomy. <i>Physical Review D</i> , 2020, 102, .	1.6	9
81	Neutron star equations of state and their applications. <i>International Journal of Modern Physics E</i> , 2020, 29, 2030007.	0.4	2
82	Effect of the crust on neutron star empirical relations. <i>Physical Review D</i> , 2020, 102, .	1.6	8
83	Neutron-star tidal deformability and equation-of-state constraints. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	0.7	159
84	Tidal deformability and gravitational-wave phase evolution of magnetized compact-star binaries. <i>Physical Review D</i> , 2020, 102, .	1.6	9
85	Distinguishing high-mass binary neutron stars from binary black holes with second- and third-generation gravitational wave observatories. <i>Physical Review D</i> , 2020, 101, .	1.6	27
86	Distinguishing Binary Neutron Star from Neutron Starâ€“Black Hole Mergers with Gravitational Waves. <i>Astrophysical Journal Letters</i> , 2020, 893, L41.	3.0	15
87	Analytic I-Love-C relations for realistic neutron stars. <i>Physical Review D</i> , 2020, 101, .	1.6	24
88	The heavier the better: how to constrain mass ratios and spins of high-mass neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 496, L16-L21.	1.2	9
89	From fundamental physics to tests with compact objects in metric-affine theories of gravity. <i>International Journal of Modern Physics D</i> , 2020, 29, 2041007.	0.9	6
90	Nonparametric constraints on neutron star matter with existing and upcoming gravitational wave and pulsar observations. <i>Physical Review D</i> , 2020, 101, .	1.6	188
91	Excitation of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" } \langle \text{mml:mi} \rangle \text{f} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{-modes during mergers of spinning binary neutron star. } \text{Physical Review D, 2020, 101, .}$	1.6	21

#	ARTICLE	IF	CITATIONS
92	GW190425: Observation of a Compact Binary Coalescence with Total Mass $\hat{M} \approx 3.4 M_{\odot}$. Astrophysical Journal Letters, 2020, 892, L3.	3.0	1,049
93	Gravitomagnetic tidal effects in gravitational waves from neutron star binaries. Physical Review D, 2020, 101, .	1.6	20
94	Neutron Stars in f(R)-Gravity and Its Extension with a Scalar Axion Field. Particles, 2020, 3, 532-542.	0.5	5
95	Modeling the gravitational wave signature of neutron star black hole coalescences. Physical Review D, 2020, 101, .	1.6	61
96	Model comparison from LIGO-Virgo data on GW170817's binary components and consequences for the merger remnant. Classical and Quantum Gravity, 2020, 37, 045006.	1.5	109
97	Studying strong phase transitions in neutron stars with gravitational waves. Physical Review D, 2020, 101, .	1.6	60
98	Electromagnetic counterparts of black hole-neutron star mergers: dependence on the neutron star properties. European Physical Journal A, 2020, 56, 1.	1.0	34
99	A neutron star with a strange quark star-like mass-radius relation. Physics of the Dark Universe, 2020, 28, 100488.	1.8	1
100	Constraining extra-spatial dimensions with observations of GW170817. Classical and Quantum Gravity, 2020, 37, 105004.	1.5	36
101	Searching for Exotic Cores with Binary Neutron Star Inspirals. Astrophysical Journal Letters, 2020, 893, L4.	3.0	17
102	Overview of KAGRA: KAGRA science. Progress of Theoretical and Experimental Physics, 2021, 2021, .	1.8	31
103	Investigating the I-Love-Q and w -mode universal relations using piecewise polytropes. Physical Review D, 2021, 103, .	1.6	11
104	Constraining the equation of state in modified gravity via universal relations. Physical Review D, 2021, 103, .	1.6	9
105	The multipolar structure of fuzzballs. Journal of High Energy Physics, 2021, 2021, 1.	1.6	30
106	Neutron star properties from astrophysical observations. Journal of the Korean Physical Society, 2021, 78, 932-941.	0.3	2
107	Updated universal relations for tidal deformabilities of neutron stars from phenomenological equations of state. Physical Review D, 2021, 103, .	1.6	21
108	Probing hybrid stars with gravitational waves via interfacial modes. Physical Review D, 2021, 103, .	1.6	15
109	Extensive studies of the neutron star equation of state from the deep learning inference with the observational data augmentation. Journal of High Energy Physics, 2021, 2021, 1.	1.6	31

#	ARTICLE	IF	CITATIONS
110	Surface of rapidly-rotating neutron stars: Implications to neutron star parameter estimation. Physical Review D, 2021, 103, .	1.6	11
111	Disformal transformation of physical quantities associated with relativistic stars. Physical Review D, 2021, 103, .	1.6	4
112	Statistical and systematic uncertainties in extracting the source properties of neutron star-black hole binaries with gravitational waves. Physical Review D, 2021, 103, .	1.6	12
113	Unified weak and strong coupling framework for nuclear matter and neutron stars. Physical Review D, 2021, 103, .	1.6	31
114	The I-Love-Q Relations for Superfluid Neutron Stars. Universe, 2021, 7, 111.	0.9	9
115	Variation of the $\hat{\Gamma}$ baryon mass and hybrid star properties in static and rotating conditions. Physical Review C, 2021, 103, .	1.1	12
116	Tight multimessenger constraints on the neutron star equation of state from GW170817 and a forward model for kilonova light-curve synthesis. Monthly Notices of the Royal Astronomical Society, 2021, 505, 3016-3032.	1.6	49
117	Astrophysical and Theoretical Physics Implications from Multimessenger Neutron Star Observations. Physical Review Letters, 2021, 126, 181101.	2.9	69
118	Compiling Messages from Neutron Stars. Physics Magazine, 0, 14, .	0.1	0
119	Maximum mass of compact stars from gravitational wave events with finite-temperature equations of state. Physical Review C, 2021, 103, .	1.1	30
120	Waveform systematics in the gravitational-wave inference of tidal parameters and equation of state from binary neutron-star signals. Physical Review D, 2021, 103, .	1.6	37
121	The first 5 years of gravitational-wave astrophysics. Science, 2021, 372, .	6.0	8
122	Probing modified gravitational-wave propagation through tidal measurements of binary neutron star mergers. Physical Review D, 2021, 103, .	1.6	9
123	GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo during the First Half of the Third Observing Run. Physical Review X, 2021, 11, .	2.8	1,097
124	Universal relations for binary neutron star mergers with long-lived remnants. Physical Review D, 2021, 104, .	1.6	6
125	Nuclear Physics and Astrophysics Constraints on the High Density Matter Equation of State. Universe, 2021, 7, 257.	0.9	12
126	Influence of the crust on the neutron star macrophysical quantities and universal relations. Physical Review C, 2021, 104, .	1.1	18
127	Baryonic dense matter in view of gravitational-wave observations. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2991-3004.	1.6	7

#	ARTICLE	IF	CITATIONS
128	Hidden symmetry between rotational tidal Love numbers of spinning neutron stars. <i>Physical Review D</i> , 2021, 104, .	1.6	6
129	Spin effects on neutron star fundamental-mode dynamical tides: Phenomenology and comparison to numerical simulations. <i>Physical Review Research</i> , 2021, 3, .	1.3	35
130	Fast Rotating Neutron Stars: Oscillations and Instabilities. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	13
131	Polar Quasinormal Modes of Neutron Stars in Massive Scalar-Tensor Theories. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	9
132	Tidal deformation of quantum black holes. <i>International Journal of Modern Physics D</i> , 0, , 2142011.	0.9	1
133	Calculation of multipole moments of axistationary electrovacuum spacetimes. <i>Physical Review D</i> , 2021, 104, .	1.6	6
134	Anisotropic compact stars: Constraining model parameters to account for physical features of tidal Love numbers. <i>Annals of Physics</i> , 2021, 433, 168597.	1.0	17
135	Fully general-relativistic simulations of isolated and binary strange quark stars. <i>Physical Review D</i> , 2021, 104, .	1.6	8
136	Future physics perspectives on the equation of state from heavy ion collisions to neutron stars. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2021, 48, 073001.	1.4	31
137	Parameter estimation for strong phase transitions in supranuclear matter using gravitational-wave astronomy. <i>Physical Review Research</i> , 2020, 2, .	1.3	19
138	PSR J0030+0451, GW170817, and the Nuclear Data: Joint Constraints on Equation of State and Bulk Properties of Neutron Stars. <i>Astrophysical Journal</i> , 2020, 892, 55.	1.6	65
139	A New Method to Constrain Neutron Star Structure from Quasi-periodic Oscillations. <i>Astrophysical Journal</i> , 2020, 899, 139.	1.6	17
140	Physical Implications of the Subthreshold GRB GBM-190816 and Its Associated Subthreshold Gravitational-wave Event. <i>Astrophysical Journal</i> , 2020, 899, 60.	1.6	11
141	Constraining Hadron-quark Phase Transition Parameters within the Quark-mean-field Model Using Multimessenger Observations of Neutron Stars. <i>Astrophysical Journal</i> , 2020, 904, 103.	1.6	38
142	High-Order Multipole and Binary Love Number Universal Relations. <i>Universe</i> , 2021, 7, 368.	0.9	8
143	First Constraints on Nuclear Coupling of Axionlike Particles from the Binary Neutron Star Gravitational Wave Event GW170817. <i>Physical Review Letters</i> , 2021, 127, 161101.	2.9	21
144	Cosmology with Love: Measuring the Hubble constant using neutron star universal relations. <i>Physical Review D</i> , 2021, 104, .	1.6	20
145	Astrophysical Tests of Screened Modified Gravity. , 2019, , 195-231.		1

#	ARTICLE	IF	CITATIONS
146	Binary Neutron Stars. , 2021, , 1-31.		0
147	Scalarized neutron stars in massive scalar-tensor gravity: X-ray pulsars and tidal deformability. Physical Review D, 2021, 104, .	1.6	8
148	Measuring individual masses of binary white dwarfs with space-based gravitational-wave interferometers. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 500, L52-L56.	1.2	11
149	Tidal Love numbers of neutron stars in Rastall gravity. Astrophysics and Space Science, 2021, 366, 1.	0.5	6
151	Extreme matter meets extreme gravity: Ultraheavy neutron stars with phase transitions. Physical Review D, 2022, 105, .	1.6	36
152	Neutron stars in massive scalar-Gauss-Bonnet gravity: Spherical structure and time-independent perturbations. Physical Review D, 2022, 105, .	1.6	12
153	Inferring the gravitational binding energy and moment of inertia of PSR J0030 + 0451 and PSR J0740 + 6620 from new universal relations. Classical and Quantum Gravity, 2022, 39, 035014.	1.5	2
154	Classical Love number for quantum black holes. Physical Review D, 2022, 105, .	1.6	5
155	Quantum Love numbers. Physical Review D, 2022, 105, .	1.6	7
156	Gravitational waves from binary neutron stars. Arabian Journal of Mathematics, 2022, 11, 105-118.	0.4	3
157	Gravitational-wave and X-ray probes of the neutron star equation of state. Nature Reviews Physics, 2022, 4, 237-246.	11.9	8
158	Tidal deformabilities of neutron stars in scalar-Gauss-Bonnet gravity and their applications to multimessenger tests of gravity. Physical Review D, 2021, 104, .	1.6	15
159	The Challenges Ahead for Multimessenger Analyses of Gravitational Waves and Kilonova: A Case Study on GW190425. Astrophysical Journal, 2021, 922, 269.	1.6	35
160	Bayesian Model Selection of Neutron Star Equations of State Using Multi-messenger Observations. Astrophysical Journal, 2022, 926, 75.	1.6	16
161	Soliton boson stars, Q-balls and the causal Buchdahl bound. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 032.	1.9	19
162	Neutron Starâ€“Neutron Star and Neutron Starâ€“Black Hole Mergers: Multiband Observations and Early Warnings. Astrophysical Journal, 2022, 926, 158.	1.6	13
163	Building a realistic neutron star from holography. Physical Review D, 2022, 105, .	1.6	21
164	Compact Objects in Alternative Gravities. Universe, 2022, 8, 153.	0.9	6

#	ARTICLE	IF	CITATIONS
165	Exploring the universal relations with the correlation analysis of neutron star properties. Physical Review D, 2022, 105, .	1.6	3
167	Ensembles of unified crust and core equations of state in a nuclear-multimessenger astrophysics environment. European Physical Journal A, 2022, 58, 1.	1.0	6
168	Slowly rotating neutron star with holographic multiquark core: I-Love-Q relations. Physical Review D, 2022, 105, .	1.6	3
169	Neutrino emission from binary neutron star mergers: characterising light curves and mean energies. European Physical Journal A, 2022, 58, .	1.0	22
170	Holographic approach to compact stars and their binary mergers. Progress in Particle and Nuclear Physics, 2022, 126, 103972.	5.6	14
171	Anisotropic compact star with a linear pressure–density relationship. International Journal of Modern Physics D, 2022, 31, .	0.9	7
172	Exotic compact objects: The dark white dwarf. Physical Review D, 2022, 105, .	1.6	11
173	Investigating the detection rates and inference of gravitational-wave and radio emission from black hole neutron star mergers. Astronomy and Astrophysics, 2022, 664, A160.	2.1	3
174	Binary Neutron Stars. , 2022, , 495-525.		0
175	Multipolar structure of rotating boson stars. Physical Review D, 2022, 105, .	1.6	9
176	Nuclear Symmetry Energy and Hyperonic Stars in the QMC Model. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	5
177	Impact and detectability of spin-tidal couplings in neutron star inspirals. Physical Review D, 2022, 106, .	1.6	9
178	On the moment of inertia of PSR J0737-3039 A from LIGO/Virgo and NICER. Monthly Notices of the Royal Astronomical Society, 2022, 515, 5071-5080.	1.6	10
179	Universal relations for rapidly rotating cold and hot hybrid stars. Monthly Notices of the Royal Astronomical Society, 2022, 515, 3539-3554.	1.6	8
180	Thermodynamics of Hot Neutron Stars and Universal Relations. Universe, 2022, 8, 395.	0.9	2
181	Universal relations for quasinormal modes of neutron stars in $\langle R^2 \rangle$ gravity. Physical Review D, 2022, 106, .	1.6	4
182	Kaon-baryon coupling schemes and kaon condensation in hyperon-mixed matter. Progress of Theoretical and Experimental Physics, 0, , .	1.8	0
183	Mirror neutron stars. Physical Review D, 2022, 106, .	1.6	13

#	ARTICLE	IF	CITATIONS
184	Equation-of-state-insensitive measure of neutron star stiffness. <i>Physical Review D</i> , 2022, 106, .	1.6	4
185	Universal Relations for the Increase in the Mass and Radius of a Rotating Neutron Star. <i>Astrophysical Journal</i> , 2022, 934, 139.	1.6	9
186	Constraints on the merging binary neutron star mass distribution and equation of state based on the incidence of jets in the population. <i>Astronomy and Astrophysics</i> , 2022, 666, A174.	2.1	6
187	Neutron stars as extreme laboratories for gravity tests. <i>Science Bulletin</i> , 2022, 67, 1946-1949.	4.3	5
188	Polytropic fits of modern and unified equations of state. <i>Physical Review C</i> , 2022, 106, .	1.1	1
189	Massive relativistic compact stars from SU(3) symmetric quark models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 834, 137470.	1.5	7
190	Exploring universal characteristics of neutron star matter with relativistic <i>ab initio</i> equations of state. <i>Physical Review C</i> , 2022, 106, .	1.1	3
191	$\tilde{\nu}$ -modes of neutron stars in a massless scalar-tensor theory. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	1.1	1
192	Systematic errors due to quasiuniversal relations in binary neutron stars and their correction for unbiased model selection. <i>Physical Review D</i> , 2022, 106, .	1.6	3
193	I-Love-Q relations in Hořava-Lifshitz gravity. <i>Physical Review D</i> , 2022, 106, .	1.6	2
194	Dark Matter-admixed Rotating White Dwarfs as Peculiar Compact Objects. <i>Astrophysical Journal</i> , 2022, 941, 115.	1.6	3
195	Impact of updated multipole Love numbers and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Love universal relations in the context of binary neutron stars. <i>Physical Review D</i> , 2023, 107, .	1.6	7
196	The luminosity functions of kilonovae from binary neutron star mergers under different equation of states. <i>Monthly Notices of the Royal Astronomical Society</i> , 2023, 522, 912-936.	1.6	3
197	Breaking bad degeneracies with Love relations: Improving gravitational-wave measurements through universal relations. <i>Physical Review D</i> , 2023, 107, .	1.6	2
198	Compactness in the thermal evolution of twin stars. <i>Physical Review C</i> , 2023, 107, .	1.1	6
199	Systematic correlation analysis between the nuclear matter parameters and neutron star properties within relativistic mean-field theory. <i>Physical Review D</i> , 2023, 107, .	1.6	0
200	Heavy baryons in compact stars. <i>Progress in Particle and Nuclear Physics</i> , 2023, 131, 104041.	5.6	17
201	Study of the agreement between binary neutron star ejecta models derived from numerical relativity simulations. <i>Physical Review D</i> , 2023, 107, .	1.6	7

#	ARTICLE	IF	CITATIONS
223	Neutron Stars. Lecture Notes in Physics, 2023, , 293-313.	0.3	0