

# Daniela D Doneva

## List of Publications by Year in descending order

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86  
papers

4,497  
citations

147801

31  
h-index

98798

67  
g-index

86  
all docs

86  
docs citations

86  
times ranked

2517  
citing authors

#	ARTICLE	IF	CITATIONS
1	Testing general relativity with present and future astrophysical observations. Classical and Quantum Gravity, 2015, 32, 243001.	4.0	943
2	Black holes, gravitational waves and fundamental physics: a roadmap. Classical and Quantum Gravity, 2019, 36, 143001.	4.0	451
3	New Gauss-Bonnet Black Holes with Curvature-Induced Scalarization in Extended Scalar-Tensor Theories. Physical Review Letters, 2018, 120, 131103.	7.8	373
4	Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1.	2.0	198
5	Radial perturbations of the scalarized Einstein-Gauss-Bonnet black holes. Physical Review D, 2018, 98, .	4.7	126
6	Non-perturbative and self-consistent models of neutron stars in $R$ -squared gravity. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 003-003.	5.4	116
7	Slowly rotating neutron and strange stars in $R^2$ gravity. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 006-006.	5.4	109
8	Gravitational wave asteroseismology of fast rotating neutron stars with realistic equations of state. Physical Review D, 2013, 88, .	4.7	105
9	Nonradial oscillations of anisotropic neutron stars in the Cowling approximation. Physical Review D, 2012, 85, .	4.7	104
10	Rapidly rotating neutron stars in scalar-tensor theories of gravity. Physical Review D, 2013, 88, .	4.7	98
11	BREAKDOWN OF $\lambda$ -LOVE- $Q$ UNIVERSALITY IN RAPIDLY ROTATING RELATIVISTIC STARS. Astrophysical Journal Letters, 2014, 781, L6.	8.3	93
12	The missing link in gravitational-wave astronomy: discoveries waiting in the decihertz range. Classical and Quantum Gravity, 2020, 37, 215011.	4.0	90
13	Charged Gauss-Bonnet black holes with curvature induced scalarization in the extended scalar-tensor theories. Physical Review D, 2018, 98, .	4.7	86
14	Slowly rotating neutron stars in scalar-tensor theories with a massive scalar field. Physical Review D, 2016, 93, .	4.7	83
15	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	26.7	82
16	Rapidly rotating neutron stars in $R$ -squared gravity. Physical Review D, 2015, 91, .	4.7	69
17	Rapidly rotating neutron stars with a massive scalar field's structure and universal relations. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 019-019.	5.4	60
18	Neutron star solutions with curvature induced scalarization in the extended Gauss-Bonnet scalar-tensor theories. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 011-011.	5.4	56

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19	Gauss-Bonnet black holes with a massive scalar field. <i>Physical Review D</i> , 2019, 99, .	4.7	56
20	Black hole scalarization induced by the spin: $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ time evolution. <i>Physical Review D</i> , 2020, 102, .	4.7	55
21	Quasinormal modes, bifurcations, and nonuniqueness of charged scalar-tensor black holes. <i>Physical Review D</i> , 2010, 82, .	4.7	54
22	Universal I-Q relations for rapidly rotating neutron and strange stars in scalar-tensor theories. <i>Physical Review D</i> , 2014, 90, .	4.7	50
23	Gravitational wave afterglow in binary neutron star mergers. <i>Physical Review D</i> , 2015, 92, .	4.7	46
24	Static and slowly rotating neutron stars in scalar-tensor theory with self-interacting massive scalar field. <i>European Physical Journal C</i> , 2018, 78, 586.	3.9	44
25	Axial perturbations of the scalarized Einstein-Gauss-Bonnet black holes. <i>Physical Review D</i> , 2020, 101, .	4.7	44
26	I-Q relations for rapidly rotating neutron stars in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle R \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle T_j \text{ ETQq0 0 0 rgBT /Overlock 10 Tf 50 452 Td (stretchy="false")} \langle \text{mml:m} \rangle$	4.7	43
27	Polar quasinormal modes of the scalarized Einstein-Gauss-Bonnet black holes. <i>Physical Review D</i> , 2020, 102, .	4.7	40
28	Gravitational wave asteroseismology of neutron and strange stars in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msup} \langle \text{mml:mi} \rangle R \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ gravity. <i>Physical Review D</i> , 2015, 92, .	4.7	38
29	Tidal Love numbers of neutron stars in $f(R)$ gravity. <i>European Physical Journal C</i> , 2018, 78, 818.	3.9	36
30	Orbital and epicyclic frequencies around rapidly rotating compact stars in scalar-tensor theories of gravity. <i>Physical Review D</i> , 2014, 90, .	4.7	34
31	Dynamics of the nonrotating and rotating black hole scalarization. <i>Physical Review D</i> , 2021, 103, .	4.7	33
32	Relativistic stars in 4D Einstein-Gauss-Bonnet gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 024.	5.4	33
33	Evolution of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -mode instability in neutron stars and gravitational wave detectability. <i>Physical Review D</i> , 2013, 87, .	4.7	31
34	Quasinormal modes of compact objects in alternative theories of gravity. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	31
35	Probing the nature of black holes: Deep in the mHz gravitational-wave sky. <i>Experimental Astronomy</i> , 2021, 51, 1385-1416.	3.7	29
36	Orbital and epicyclic frequencies around neutron and strange stars in $f(R)$ gravity. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	28

#	ARTICLE	IF	CITATIONS
37	Beyond the spontaneous scalarization: New fully nonlinear mechanism for the formation of scalarized black holes and its dynamical development. <i>Physical Review D</i> , 2022, 105, .	4.7	27
38	Differentially rotating neutron stars in scalar-tensor theories of gravity. <i>Physical Review D</i> , 2018, 98, .	4.7	26
39	Spin-induced scalarization of Kerr black holes with a massive scalar field. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	26
40	Dynamical Formation of Scalarized Black Holes and Neutron Stars through Stellar Core Collapse. <i>Physical Review Letters</i> , 2021, 127, 161103.	7.8	24
41	Moment-of-inertia $\epsilon$ compactness universal relations in scalar-tensor theories and $R^2$ gravity. <i>Physical Review D</i> , 2016, 93, .	4.7	23
42	Oscillation modes of rapidly rotating neutron stars in scalar-tensor theories of gravity. <i>Physical Review D</i> , 2017, 96, .	4.7	22
43	Asteroseismology of rapidly rotating neutron stars: An alternative approach. <i>Physical Review D</i> , 2015, 92, .	4.7	19
44	Universal Relations and Alternative Gravity Theories. <i>Astrophysics and Space Science Library</i> , 2018, , 737-806.	2.7	19
45	Axial quasinormal modes of neutron stars in $R^2$ gravity. <i>Physical Review D</i> , 2018, 98, .	4.7	19
46	Axial quasinormal modes of scalarized neutron stars with massive self-interacting scalar field. <i>Physical Review D</i> , 2019, 99, .	4.7	18
47	Spontaneously scalarized black holes in dynamical Chern-Simons gravity: Dynamics and equilibrium solutions. <i>Physical Review D</i> , 2021, 103, .	4.7	18
48	Dark compact objects in massive tensor-multi-scalar theories of gravity. <i>Physical Review D</i> , 2019, 99, .	4.7	17
49	Multiscalar Gauss-Bonnet gravity: Hairy black holes and scalarization. <i>Physical Review D</i> , 2020, 102, .	4.7	17
50	Moment of inertia $\epsilon$ mass universal relations for neutron stars in scalar-tensor theory with self-interacting massive scalar field. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	15
51	The missing link in gravitational-wave astronomy. <i>Experimental Astronomy</i> , 2021, 51, 1427-1440.	3.7	15
52	Nontopological spontaneously scalarized neutron stars in tensor-multiscalar theories of gravity. <i>Physical Review D</i> , 2020, 101, .	4.7	14
53	Radial perturbations of scalar-Gauss-Bonnet black holes beyond spontaneous scalarization. <i>Physical Review D</i> , 2022, 105, .	4.7	14
54	Accretion disks around neutron and strange stars in $R^2$ gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 061-061.	5.4	13

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55	Charged anti-de Sitter scalar-tensor black holes and their thermodynamic phase structure. <i>Physical Review D</i> , 2010, 81, .	4.7	12
56	Stability and quasinormal modes of black holes in tensor-vector-scalar theory: Scalar field perturbations. <i>Physical Review D</i> , 2010, 82, .	4.7	12
57	Topological neutron stars in tensor-multi-scalar theories of gravity. <i>Physical Review D</i> , 2020, 101, .	4.7	12
58	Rotating tensor-multiscalar solitons. <i>Physical Review D</i> , 2020, 101, .	4.7	12
59	Multipole moments and universal relations for scalarized neutron stars. <i>Physical Review D</i> , 2019, 99, .	4.7	11
60	Mixed configurations of tensor-multiscalar solitons and neutron stars. <i>Physical Review D</i> , 2020, 101, .	4.7	11
61	Circular Orbit Structure and Thin Accretion Disks around Kerr Black Holes with Scalar Hair. <i>Astrophysical Journal</i> , 2021, 910, 52.	4.5	11
62	Oscillation dynamics of scalarized neutron stars. <i>Physical Review D</i> , 2021, 103, .	4.7	10
63	Rotating tensor-multiscalar black holes with two scalars. <i>Physical Review D</i> , 2020, 102, .	4.7	9
64	Stability of topological neutron stars. <i>Physical Review D</i> , 2020, 102, .	4.7	9
65	Constraining the equation of state in modified gravity via universal relations. <i>Physical Review D</i> , 2021, 103, .	4.7	9
66	Solitons and black holes in a generalized Skyrme model with dilaton-quarkonium field. <i>Physical Review D</i> , 2011, 83, .	4.7	8
67	Equatorial extreme-mass-ratio inspirals in Kerr black holes with scalar hair spacetimes. <i>Physical Review D</i> , 2022, 105, .	4.7	8
68	Possible dark energy imprints in the gravitational wave spectrum of mixed neutron-dark-energy stars. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 037-037.	5.4	7
69	Time evolution of the radial perturbations and linear stability of solitons and black holes in a generalized Skyrme model. <i>Physical Review D</i> , 2011, 84, .	4.7	6
70	Orbital and epicyclic frequencies in massive scalar-tensor theory with self-interaction. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	1.4	6
71	Nonlinear evolution and nonuniqueness of scalarized neutron stars. <i>Physical Review D</i> , 2021, 104, .	4.7	6
72	Thick toroidal configurations around scalarized Kerr black holes. <i>Physical Review D</i> , 2021, 104, .	4.7	6

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73	Nonlinear stability of soliton solutions for massive tensor-multiscalar theories. Physical Review D, 2021, 104, .	4.7	5
74	Tensor-multiscalar gravity: Equations of motion to 2.5 post-Newtonian order. Physical Review D, 2022, 105, .	4.7	5
75	Slowly rotating topological neutron stars: universal relations and epicyclic frequencies. European Physical Journal C, 2020, 80, 1.	3.9	4
76	No-hair theorems for noncanonical self-gravitating static multiple scalar fields. Physical Review D, 2020, 102, .	4.7	3
77	Axial perturbations of hairy Gauss-Bonnet black holes with a massive self-interacting scalar field. Physical Review D, 2022, 105, .	4.7	2
78	Numerical Study of Linear Stability of Scalar-tensor Born-Infeld Black Holes. , 2009, , .		0
79	Thermodynamics of Scalar-tensor AdS Black Holes Coupled to Nonlinear Electrodynamics. , 2010, , .		0
80	STABILITY ANALYSIS OF SCALAR-TENSOR BORN-INFELD BLACK HOLE SOLUTIONS. , 2012, , .		0
81	Thermodynamic phase structure of charged anti-de Sitter scalar-tensor black holes. Journal of Physics: Conference Series, 2013, 453, 012017.	0.4	0
82	A CONNECTION BETWEEN QUASINORMAL MODES AND NONUNIQUENESS OF CHARGED SCALAR-TENSOR BLACK HOLES. , 2015, , .		0
83	Neutron and strange stars in R-squared gravity. , 2017, , .		0
84	Compact stars in massive scalar-tensor theory with extended dilaton potential. AIP Conference Proceedings, 2019, , .	0.4	0
85	Saturation of the f-mode instability in neutron stars. , 2017, , .		0
86	Workshop on Gravitational-Wave Astrophysics for Early Career Scientists. Nature Astronomy, 2022, 6, 304-305.	10.1	0