Diego Rubiera-Garcia

List of Publications by Year
in descending order

100	3,287	159585 30	161849 54
papers	citations	h-index	g-index

105	105	105	946
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1.	2.0	198
2	Bornâ€“Infeld inspired modifications of gravity. Physics Reports, 2018, 727, 1-129.	25.6	195
3	Quantum gravity phenomenology at the dawn of the multi-messenger eraâ€”A review. Progress in Particle and Nuclear Physics, 2022, 125, 103948.	14.4	175
4	Coupling matter in modified<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>gravity. Physical Review D, 2018, 98, .	4.7	164
5	Stellar structure models in modified theories of gravity: Lessons and challenges. Physics Reports, 2020, 876, 1-75.	25.6	157
6	Palatini<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 537 Td (stretchy="false">)</mml:m 2011, 84, .	4.7	111
7	Geonic black holes and remnants in Eddington-inspired Bornâ€“Infeld gravity. European Physical Journal C, 2014, 74, 2804.	3.9	110
8	Wormholes and nonsingular spacetimes in Palatini<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 452 Td (stretchy="false">)</mml:m	4.7	110
9	Reissner-NordstrÃ¶m black holes in extended Palatini theories. Physical Review D, 2012, 86, .	4.7	86
10	Nonsingular Black Holes in Æ' (R) Theories. Universe, 2015, 1, 173-185.	2.5	85
11	Mapping Ricci-based theories of gravity into general relativity. Physical Review D, 2018, 97, .	4.7	78
12	Geodesic completeness in a wormhole spacetime with horizons. Physical Review D, 2015, 92, .	4.7	72
13	Born-Infeld gravity and its functional extensions. Physical Review D, 2014, 90, .	4.7	64
14	What is a singular black hole beyond general relativity?. Physical Review D, 2017, 95, .	4.7	61
15	Shadows and optical appearance of black bounces illuminated by a thin accretion disk. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 036.	5.4	57
16	Mapping nonlinear gravity into General Relativity with nonlinear electrodynamics. European Physical Journal C, 2018, 78, 866.	3.9	55
17	Electrostatic spherically symmetric configurations in gravitating nonlinear electrodynamics. Physical Review D, 2010, 81, .	4.7	53
18	Nonsingular black holes in quadratic Palatini gravity. European Physical Journal C, 2012, 72, 1.	3.9	51

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19	Brane-world and loop cosmology from a gravityâ€“matter coupling perspective. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 73-79.	4.1	47
20	Classical resolution of black hole singularities via wormholes. European Physical Journal C, 2016, 76, 1.	3.9	47
21	Junction conditions in Palatini f(R) gravity. Classical and Quantum Gravity, 2020, 37, 215002.	4.0	47
22	Importance of torsion and invariant volumes in Palatini theories of gravity. Physical Review D, 2013, 88, .	4.7	46
23	Correspondence between modified gravity and general relativity with scalar fields. Physical Review D, 2019, 99, .	4.7	45
24	Nonsingular black holes, wormholes, and de Sitter cores from anisotropic fluids. Physical Review D, 2017, 96, .	4.7	44
25	Metric-affine <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo>,</mml:mo><mml:mi>T</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /O D, 2018, 97, .	4.7	44
26	Unveiling the Dynamics of the Universe. Symmetry, 2016, 8, 70.	2.2	40
27	Semiclassical geons as solitonic black hole remnants. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 011-011.	5.4	38
28	Minimum main sequence mass in quadratic Palatini <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi mathvariant="script">R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 372 Td (stretc	4.7	38
29	NONSINGULAR CHARGED BLACK HOLES Ã€ LA PALATINI. International Journal of Modern Physics D, 2012, 21, 1250067.	2.1	36
30	Crystal clear lessons on the microstructure of spacetime and modified gravity. Physical Review D, 2015, 91, .	4.7	34
31	Thick brane in f(R) gravity with Palatini dynamics. European Physical Journal C, 2015, 75, 1.	3.9	31
32	Microscopic wormholes and the geometry of entanglement. European Physical Journal C, 2014, 74, 1.	3.9	29
33	Impact of curvature divergences on physical observers in a wormhole spaceâ€“time with horizons. Classical and Quantum Gravity, 2016, 33, 115007.	4.0	29
34	Cosmological future singularities in interacting dark energy models. Physical Review D, 2016, 94, .	4.7	29
35	Asymptotically anomalous black hole configurations in gravitating nonlinear electrodynamics. Physical Review D, 2010, 82, .	4.7	28
36	New scalar compact objects in Ricci-based gravity theories. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 044-044.	5.4	28

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37	Dynamical generation of wormholes with charged fluids in quadratic Palatini gravity. Physical Review D, 2014, 90, .	4.7	27
38	Black holes in five-dimensional Palatini<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 Td (stretchy="false"></mml:mo></mml:mi></mml:mo></mml:math>Physical Review D, 2014, 90, .	4.7	27
39	Light ring images of double photon spheres in black hole and wormhole spacetimes. Physical Review D, 2022, 105, .	4.7	27
40	Palatini wormholes and energy conditions from the prism of general relativity. European Physical Journal C, 2017, 77, 776.	3.9	26
41	Thermodynamic analysis of black hole solutions in gravitating nonlinear electrodynamics. General Relativity and Gravitation, 2013, 45, 1901-1950.	2.0	24
42	Structure and stability of traversable thin-shell wormholes in Palatini <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi mathvariant="script">R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 532 Td (stretc	4.7	24
43	Semiclassical geons at particle accelerators. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 010-010.	5.4	23
44	On gravitational waves in Born-Infeld inspired non-singular cosmologies. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 029-029.	5.4	23
45	Fundamental Symmetries and Spacetime Geometries in Gauge Theories of Gravityâ€”Prospects for Unified Field Theories. Universe, 2020, 6, 238.	2.5	23
46	Planck scale physics and topology change through an exactly solvable model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 163-167.	4.1	22
47	Double shadows of reflection-asymmetric wormholes supported by positive energy thin-shells. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 066.	5.4	22
48	Constant roll inflation in multifield models. Physical Review D, 2020, 102, .	4.7	22
49	Scalar geons in Born-Infeld gravity. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 031-031.	5.4	21
50	Rotating black holes in Eddington-inspired Born-Infeld gravity: an exact solution. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 058-058.	5.4	20
51	Classical resolution of black hole singularities in arbitrary dimension. Physical Review D, 2015, 92, .	4.7	19
52	Robustness of braneworld scenarios against tensorial perturbations. Classical and Quantum Gravity, 2015, 32, 215011.	4.0	18
53	Compact vortexlike solutions in a generalized Born-Infeld model. Physical Review D, 2011, 84, .	4.7	17
54	Topological vortices in generalized Bornâ€“Infeldâ€“Higgs electrodynamics. European Physical Journal C, 2015, 75, 1.	3.9	17

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55	Geodesically complete BTZ-type solutions of 2â€‰â€‰+â€‰â€‰1 Bornâ€“Infeld gravity. Classical and Quantum Gravity, 2017, 34, 045006.	4.0	17
56	Gauss-Bonnet black holes supported by a nonlinear electromagnetic field. Physical Review D, 2015, 91, .	4.7	16
57	The quantum, the geon and the crystal. International Journal of Modern Physics D, 2015, 24, 1542013.	2.1	16
58	Geometric inequivalence of metric and Palatini formulations of General Relativity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135275.	4.1	16
59	Parameterized nonrelativistic limit of stellar structure equations in Ricci-based gravity theories. Physical Review D, 2021, 104, .	4.7	16
60	Black hole solutions in functional extensions of Born-Infeld gravity. Physical Review D, 2016, 94, .	4.7	15
61	Accelerated observers and the notion of singular spacetime. Classical and Quantum Gravity, 2018, 35, 055010.	4.0	15
62	A study on relativistic lagrangian field theories with non-topological soliton solutions. Annals of Physics, 2009, 324, 827-873.	2.8	14
63	Nonsingular electrovacuum solutions with dynamically generated cosmological constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 870-875.	4.1	14
64	Nonsingular black holes in nonlinear gravity coupled to Euler-Heisenberg electrodynamics. Physical Review D, 2020, 102, .	4.7	14
65	Melvin universe in Born-Infeld gravity. Physical Review D, 2015, 91, .	4.7	13
66	New light rings from multiple critical curves as observational signatures of black hole mimickers. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137045.	4.1	12
67	Multicenter solutions in Eddington-inspired Bornâ€“Infeld gravity. European Physical Journal C, 2020, 80, 1.	3.9	11
68	Black hole formation from a null fluid in extended Palatini gravity. Physical Review D, 2012, 86, .	4.7	9
69	Generalized sine-Gordon solitons. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 425402.	2.1	8
70	BPS solitons in a Diracâ€“Bornâ€“Infeld action. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 105402.	2.1	8
71	Electrically charged black hole solutions in generalized gauge field theories. Journal of Physics: Conference Series, 2011, 314, 012065.	0.4	7
72	Cosmological bounces, cyclic universes, and effective cosmological constant in Einstein-Cartan-Dirac-Maxwell theory. Physical Review D, 2020, 102, .	4.7	7

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73	Sudden singularities in generalized hybrid metric-Palatini cosmologies. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 009.	5.4	7
74	Charged BTZ-type solutions in Eddington-inspired Born-Infeld gravity. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 025.	5.4	7
75	Some recent results on Ricci-based gravity theories. International Journal of Modern Physics D, 2022, 31, .	2.1	7
76	Geons in Palatini Theories of Gravity. Fundamental Theories of Physics, 2017, , 161-190.	0.3	6
77	Einsteinâ€“Cartanâ€“Dirac gravity with U(1) symmetry breaking. European Physical Journal C, 2019, 79, 1.	3.9	6
78	From fundamental physics to tests with compact objects in metric-affine theories of gravity. International Journal of Modern Physics D, 2020, 29, 2041007.	2.1	6
79	The cosmological principle in theories with torsion: the case of Einstein-Cartan-Dirac-Maxwell gravity. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 057-057.	5.4	6
80	Non-topological solitons in field theories with kinetic self-coupling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 653, 445-449.	4.1	5
81	Generalized gauge field theories with non-topological soliton solutions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 657, 257-262.	4.1	5
82	Black holes from generalized gauge field theories. Journal of Physics: Conference Series, 2011, 283, 012014.	0.4	5
83	Deformation method for generalized Abelian Higgs-Chern-Simons models. Europhysics Letters, 2013, 101, 31001.	2.0	5
84	Imprints from a Riemannâ€“Cartan space-time on the energy levels of Dirac spinors. Classical and Quantum Gravity, 2021, 38, 195008.	4.0	5
85	Non-Riemannian geometry: towards new avenues for the physics of modified gravity. Journal of Physics: Conference Series, 2015, 600, 012041.	0.4	4
86	Geometric aspects of charged black holes in Palatini theories. Journal of Physics: Conference Series, 2015, 600, 012042.	0.4	4
87	Structure and thermodynamics of charged nonrotating black holes in higher dimensions. Physical Review D, 2019, 99, .	4.7	4
88	Singularity-Free and Cosmologically Viable Born-Infeld Gravity with Scalar Matter. Symmetry, 2021, 13, 2108.	2.2	4
89	Black holes with electric charge in Palatini theories of gravity. , 2012, , .		2
90	Modified gravity in three dimensional metric-affine scenarios. Physical Review D, 2015, 92, .	4.7	1

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91	An infinite class of exact rotating black hole metrics of modified gravity. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 052.	5.4	1
92	Thermodynamic analysis of black holes supported by nonlinear electrodynamics. , 2012, , .		0
93	CHARGED BLACK HOLES IN PALATINI f(R) THEORIES. , 2015, , .		0
94	NONSINGULAR BLACK HOLES IN PALATINI EXTENSIONS OF GENERAL RELATIVITY. , 2015, , .		0
95	Post-Editorial of the Special Issue â€œWormholes in Space-Time: Theory and Factsâ€• Universe, 2020, 6, 228.	2.5	0
96	Soliton solutions in relativistic field theories and gravitation. EAS Publications Series, 2008, 30, 193-196.	0.3	0
97	ON SELF-GRAVITATING ELEMENTARY SOLUTIONS OF NON-LINEAR ELECTRODYNAMICS. , 2012, , .		0
98	Geometric and Thermodynamic Aspects of Charged Black Holes in Nonlinear Electrodynamics. Springer Proceedings in Mathematics and Statistics, 2014, , 249-253.	0.2	0
99	Geons as wormholes of modified gravity. , 2017, , .		0
100	Wormholes as a cure for black hole singularities. , 2017, , .		0