

Gonzalo J Olmo

List of Publications by Year in descending order

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Version: 2024-02-01

150
papers

6,434
citations

57758

44
h-index

71685

76
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154
all docs

154
docs citations

154
times ranked

1324
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiative corrections in metric-affine bumblebee model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 826, 136932.	4.1	12
2	Compact objects in quadratic Palatini gravity generated by a free scalar field. <i>Physical Review D</i> , 2022, 105, .	4.7	2
3	New light rings from multiple critical curves as observational signatures of black hole mimickers. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 829, 137045.	4.1	12
4	An infinite class of exact rotating black hole metrics of modified gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 052.	5.4	1
5	Light ring images of double photon spheres in black hole and wormhole spacetimes. <i>Physical Review D</i> , 2022, 105, .	4.7	27
6	Determinantal Born-Infeld coupling of gravity and electromagnetism. <i>Physical Review D</i> , 2022, 105, .	4.7	2
7	Some recent results on Ricci-based gravity theories. <i>International Journal of Modern Physics D</i> , 2022, 31, .	2.1	7
8	Spontaneous Lorentz symmetry breaking and one-loop effective action in the metric-affine bumblebee gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 018.	5.4	12
9	Metric-affine bumblebee gravity: classical aspects. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	18
10	Double shadows of reflection-asymmetric wormholes supported by positive energy thin-shells. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 066.	5.4	22
11	Big bounce and future time singularity resolution in Bianchi I cosmologies: The projective invariant Nieh-Yan case. <i>Physical Review D</i> , 2021, 103, .	4.7	30
12	Parameterized nonrelativistic limit of stellar structure equations in Ricci-based gravity theories. <i>Physical Review D</i> , 2021, 104, .	4.7	16
13	Shadows and optical appearance of black bounces illuminated by a thin accretion disk. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 036.	5.4	57
14	Born-Infeld gravity: Constraints from light-by-light scattering and an effective field theory perspective. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 820, 136479.	4.1	14
15	Boson stars in Palatini $f(R)$ gravity. <i>Classical and Quantum Gravity</i> , 2021, 38, 194003.	4.0	14
16	Singularity-Free and Cosmologically Viable Born-Infeld Gravity with Scalar Matter. <i>Symmetry</i> , 2021, 13, 2108.	2.2	4
17	Charged BTZ-type solutions in Eddington-inspired Born-Infeld gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 025.	5.4	7
18	Weak-field regime of the generalized hybrid metric-Palatini gravity. <i>Physical Review D</i> , 2021, 104, .	4.7	7

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19	Stellar structure models in modified theories of gravity: Lessons and challenges. Physics Reports, 2020, 876, 1-75.	25.6	157
20	Particle creation by wormholes: A 1 + 1 model. International Journal of Modern Physics D, 2020, 29, 2041009.	2.1	3
21	Multicenter solutions in Eddington-inspired Born-Infeld gravity. European Physical Journal C, 2020, 80, 1.	3.9	11
22	Post-Editorial of the Special Issue "Wormholes in Space-Time: Theory and Facts" Universe, 2020, 6, 228.	2.5	0
23	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
24	Nonlinear $f(R)$ -models in the Eddington-inspired Born-Infeld gravity. Physical Review D, 2020, 101, .	4.7	13
25	Structure and stability of traversable thin-shell wormholes in Palatini $f(R)$ gravity. Physical Review D, 2020, 101, .	4.7	24
26	Conformally invariant proper time with general non-metricity. European Physical Journal C, 2020, 80, 1.	3.9	10
27	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
28	Junction conditions in Palatini $f(R)$ gravity. Classical and Quantum Gravity, 2020, 37, 215002.	4.0	47
29	Minimum main sequence mass in quadratic Palatini $f(R)$ gravity. Physical Review D, 2020, 101, .	4.7	38
30	Absorption by black hole remnants in metric-affine gravity. Physical Review D, 2019, 100, .	4.7	18
31	Global monopole in Palatini $f(R)$ gravity. Physical Review D, 2019, 99, .	4.7	33
32	Correspondence between modified gravity and general relativity with scalar fields. Physical Review D, 2019, 99, .	4.7	45
33	Ricci-Based Gravity theories and their impact on Maxwell and nonlinear electromagnetic models. Journal of High Energy Physics, 2019, 2019, 1.	4.7	30
34	A generalized Weyl structure with arbitrary non-metricity. European Physical Journal C, 2019, 79, 1.	3.9	9
35	New scalar compact objects in Ricci-based gravity theories. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 044-044.	5.4	28
36	Observable traces of non-metricity: New constraints on metric-affine gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 294-299.	4.1	90

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37	Mapping Ricci-based theories of gravity into general relativity. <i>Physical Review D</i> , 2018, 97, .	4.7	78
38	Accelerated observers and the notion of singular spacetime. <i>Classical and Quantum Gravity</i> , 2018, 35, 055010.	4.0	15
39	Born-Infeld inspired modifications of gravity. <i>Physics Reports</i> , 2018, 727, 1-129.	25.6	195
40	Observational effects of varying speed of light in quadratic gravity cosmological models. <i>International Journal of Geometric Methods in Modern Physics</i> , 2018, 15, 1850084.	2.0	1
41	Mapping nonlinear gravity into General Relativity with nonlinear electrodynamics. <i>European Physical Journal C</i> , 2018, 78, 866.	3.9	55
42	Coupling matter in modified gravity. <i>Physical Review D</i> , 2018, 98, .	4.7	164
43	Metric-affine gravity. <i>Physical Review D</i> , 2018, 97, .	0.784	14
44	Small and hollow magnetic monopoles. <i>Physical Review D</i> , 2018, 98, .	4.7	11
45	Novel connection between lump-like structures and quantum mechanics. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	5
46	Geodesically complete BTZ-type solutions of Born-Infeld gravity. <i>Classical and Quantum Gravity</i> , 2017, 34, 045006.	4.0	17
47	Geons in Palatini Theories of Gravity. <i>Fundamental Theories of Physics</i> , 2017, , 161-190.	0.3	6
48	The trivial role of torsion in projective invariant theories of gravity with non-minimally coupled matter fields. <i>Classical and Quantum Gravity</i> , 2017, 34, 235003.	4.0	86
49	Scalar geons in Born-Infeld gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 031-031.	5.4	21
50	M-theory, graphene-branes and superconducting wormholes. <i>International Journal of Geometric Methods in Modern Physics</i> , 2017, 14, 1750167.	2.0	4
51	Nonsingular black holes, wormholes, and de Sitter cores from anisotropic fluids. <i>Physical Review D</i> , 2017, 96, .	4.7	44
52	On gravitational waves in Born-Infeld inspired non-singular cosmologies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 029-029.	5.4	23
53	What is a singular black hole beyond general relativity?. <i>Physical Review D</i> , 2017, 95, .	4.7	61
54	Palatini wormholes and energy conditions from the prism of general relativity. <i>European Physical Journal C</i> , 2017, 77, 776.	3.9	26

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55	Impact of curvature divergences on physical observers in a wormhole spacetime with horizons. <i>Classical and Quantum Gravity</i> , 2016, 33, 115007.	4.0	29
56	Wormholes and nonsingular spacetimes in Palatini $f(R)$ theories. <i>Physical Review D</i> , 2015, 91, 084011.	4.7	110
57	Nonsingular Black Holes in Palatini Extensions of General Relativity. <i>Springer Proceedings in Physics</i> , 2016, , 183-219.	0.2	14
58	Classical resolution of black hole singularities via wormholes. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	47
59	CHARGED BLACK HOLES IN PALATINI $f(R)$ THEORIES. , 2015, , .		0
60	NONSINGULAR BLACK HOLES IN PALATINI EXTENSIONS OF GENERAL RELATIVITY. , 2015, , .		0
61	Melvin universe in Born-Infeld gravity. <i>Physical Review D</i> , 2015, 91, .	4.7	13
62	Crystal clear lessons on the microstructure of spacetime and modified gravity. <i>Physical Review D</i> , 2015, 91, .	4.7	34
63	Braneworld solutions for modified theories of gravity with nonconstant curvature. <i>Physical Review D</i> , 2015, 91, .	4.7	18
64	Classical resolution of black hole singularities in arbitrary dimension. <i>Physical Review D</i> , 2015, 92, .	4.7	19
65	Geodesic completeness in a wormhole spacetime with horizons. <i>Physical Review D</i> , 2015, 92, .	4.7	72
66	Thick brane in $f(R)$ gravity with Palatini dynamics. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	31
67	HYBRID $f(R)$ THEORIES, LOCAL CONSTRAINTS, AND COSMIC SPEEDUP. , 2015, , .		0
68	Robustness of braneworld scenarios against tensorial perturbations. <i>Classical and Quantum Gravity</i> , 2015, 32, 215011.	4.0	18
69	Non-Riemannian geometry: towards new avenues for the physics of modified gravity. <i>Journal of Physics: Conference Series</i> , 2015, 600, 012041.	0.4	4
70	Nonsingular Black Holes in $f(R)$ Theories. <i>Universe</i> , 2015, 1, 173-185.	2.5	85
71	Hybrid Metric-Palatini Gravity. <i>Universe</i> , 2015, 1, 199-238.	2.5	147
72	Tensor perturbations in a general class of Palatini theories. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 026-026.	5.4	19

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73	Cascading dust inflation in Born-Infeld gravity. Journal of Cosmology and Astroparticle Physics, 2015, 046-046.	5.4	20
74	Brane-world and loop cosmology from a gravity-matter coupling perspective. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 73-79.	4.1	47
75	Geometric aspects of charged black holes in Palatini theories. Journal of Physics: Conference Series, 2015, 600, 012042.	0.4	4
76	Astrophysical constraints and insights on extended relativistic gravity. Astrophysics and Space Science, 2015, 357, 1.	1.4	7
77	The quantum, the geon and the crystal. International Journal of Modern Physics D, 2015, 24, 1542013.	2.1	16
78	Dynamical generation of wormholes with charged fluids in quadratic Palatini gravity. Physical Review D, 2014, 90, .	4.7	27
79	Black holes in five-dimensional Palatini gravity. Physical Review D, 2014, 90, .	4.7	40
80	Born-Infeld gravity and its functional extensions. Physical Review D, 2014, 90, .	4.7	64
81	Born-Infeld gravity and its functional extensions. Physical Review D, 2014, 90, .	4.7	40
82	The Cauchy problem in hybrid metric-Palatini f(X)-gravity. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1450042.	2.0	49
83	Geonic black holes and remnants in Eddington-inspired Born-Infeld gravity. European Physical Journal C, 2014, 74, 2804.	3.9	110
84	Microscopic wormholes and the geometry of entanglement. European Physical Journal C, 2014, 74, 1.	3.9	29
85	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
86	Little Rip, Λ CDM and singular dark energy cosmology from Born-Infeld gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 734, 36-40.	4.1	27
87	Infrared lessons for ultraviolet gravity: the case of massive gravity and Born-Infeld. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 004-004.	5.4	37
88	Semiclassical geons at particle accelerators. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 010-010.	5.4	23
89	The Palatini Approach Beyond Einstein's Gravity. Springer Proceedings in Physics, 2014, , 141-150.	0.2	0
90	HYBRID MODIFIED GRAVITY UNIFYING LOCAL TESTS, GALACTIC DYNAMICS AND LATE-TIME COSMIC ACCELERATION. International Journal of Modern Physics D, 2013, 22, 1342006.	2.1	90

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91	Nonsingular electrovacuum solutions with dynamically generated cosmological constant. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 870-875.	4.1	14
92	Galactic rotation curves in hybrid metric-Palatini gravity. <i>Astroparticle Physics</i> , 2013, 50-52, 65-75.	4.3	77
93	Cosmology of hybrid metric-Palatini gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 011-011.	5.4	89
94	The virial theorem and the dark matter problem in hybrid metric-Palatini gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 024-024.	5.4	81
95	Importance of torsion and invariant volumes in Palatini theories of gravity. <i>Physical Review D</i> , 2013, 88, .	4.7	46
96	Semiclassical geons as solitonic black hole remnants. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 011-011.	5.4	38
97	Cosmology in Palatini theories of gravity. , 2012, , .		6
98	Black holes with electric charge in Palatini theories of gravity. , 2012, , .		2
99	Black hole formation from a null fluid in extended Palatini gravity. <i>Physical Review D</i> , 2012, 86, .	4.7	9
100	Reissner-Nordström black holes in extended Palatini theories. <i>Physical Review D</i> , 2012, 86, .	4.7	86
101	Stellar structure equations in extended Palatini gravity. <i>Physical Review D</i> , 2012, 86, .	4.7	13
102	Wormholes supported by hybrid metric-Palatini gravity. <i>Physical Review D</i> , 2012, 86, .	4.7	155
103	NONSINGULAR CHARGED BLACK HOLES IN PALATINI. <i>International Journal of Modern Physics D</i> , 2012, 21, 1250067.	2.1	36
104	Palatini approach to bouncing cosmologies and DSR-like effects. <i>Journal of Physics: Conference Series</i> , 2012, 360, 012034.	0.4	1
105	HAWKING RADIATION IN THE PRESENCE OF AN INVARIANT PLANCK-SCALE CUTOFF. , 2012, , .		0
106	Metric-Palatini gravity unifying local constraints and late-time cosmic acceleration. <i>Physical Review D</i> , 2012, 85, .	4.7	172
107	Nonsingular black holes in quadratic Palatini gravity. <i>European Physical Journal C</i> , 2012, 72, 1.	3.9	51
108	Birkhoff's theorem and perturbations in $f(R)$ theories. <i>Annalen Der Physik</i> , 2012, 524, 87-88.	2.4	1

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109	STATIC SPHERICALLY SYMMETRIC SOLUTIONS IN EXTENDED PALATINI GRAVITY. , 2012, , .		0
110	INFLATION, QUANTUM FIELD RENORMALIZATION, AND CMB ANISOTROPIES. , 2012, , .		0
111	AVOIDING THE BIG BANG SINGULARITY WITH PALATINI $f(R)$ THEORIES. , 2012, , .		0
112	ENRICHED PHENOMENOLOGY IN EXTENDED PALATINI THEORIES. , 2012, , .		0
113	Palatini $f(R)$ theories and quantum gravity phenomenology. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 018-018.		0
114	Non-singular Universes \tilde{A} la Palatini. Journal of Physics: Conference Series, 2011, 314, 012054.	0.4	1
115	Palatini actions and quantum gravity phenomenology. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 018-018.	5.4	30
116	Hamiltonian formulation of Palatini $f(R)$ theories. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 018-018.	4.7	71
117	Remarks on the renormalization of primordial cosmological perturbations. Physical Review D, 2011, 84, .	4.7	18
118	PALATINI APPROACH TO MODIFIED GRAVITY: $f(R)$ THEORIES AND BEYOND. International Journal of Modern Physics D, 2011, 20, 413-462.	2.1	592
119	Inflation, renormalization, and CMB anisotropies. Journal of Physics: Conference Series, 2010, 229, 012058.	0.4	5
120	Hawking Radiation by Kerr Black Holes and Conformal Symmetry. Physical Review Letters, 2010, 105, 211305.	7.8	22
121	New Phenomenology for Palatini $f(R)$ Theories: Non-singular Universes. , 2010, , .		4
122	Acceleration radiation, transition probabilities and trans-Planckian physics. New Journal of Physics, 2010, 12, 095017.	2.9	7
123	Revising the observable consequences of slow-roll inflation. Physical Review D, 2010, 81, .	4.7	35
124	Isotropic and anisotropic bouncing cosmologies in Palatini gravity. Physical Review D, 2010, 82, .	4.7	73
125	Reply to "Comment on 'Insensitivity of Hawking radiation to an invariant Planck-scale cutoff'" Physical Review D, 2010, 81, .	4.7	1
126	INFLATION, QUANTUM FIELDS, AND CMB ANISOTROPIES. International Journal of Modern Physics D, 2009, 18, 2329-2335.	2.1	4

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127	Covariant effective action for loop quantum cosmology \tilde{A} la Palatini. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 030-030.	5.4	97
128	Inflation, quantum fields, and CMB anisotropies. General Relativity and Gravitation, 2009, 41, 2301-2306.	2.0	15
129	Dynamical aspects of generalized Palatini theories of gravity. Physical Review D, 2009, 80, .	4.7	66
130	Insensitivity of Hawking radiation to an invariant Planck-scale cutoff. Physical Review D, 2009, 80, .	4.7	11
131	Revising the Predictions of Inflation for the Cosmic Microwave Background Anisotropies. Physical Review Letters, 2009, 103, 061301.	7.8	47
132	Bouncing cosmologies in Palatini $f(R)$ theories of gravity. Physical Review D, 2009, 80, .	4.7	110
133	Reexamination of the Power Spectrum in De Sitter Inflation. Physical Review Letters, 2008, 101, 171301.	7.8	30
134	Acceleration radiation and the Planck scale. Physical Review D, 2008, 77, .	4.7	9
135	Hydrogen atom in Palatini theories of gravity. Physical Review D, 2008, 77, .	4.7	81
136	Two-point functions with an invariant Planck scale and thermal effects. Physical Review D, 2008, 77, .	4.7	17
137	Reexamination of polytropic spheres in Palatini $f(R)$ theories of gravity. Physical Review D, 2008, 77, .	4.7	63
138	THE ROLE OF THE PLANCK SCALE IN BLACK HOLE RADIANCE. International Journal of Modern Physics D, 2008, 17, 489-494.	2.1	1
139	SHORT DISTANCES, BLACK HOLES, AND TeV GRAVITY. , 2008, , .		0
140	Violation of the Equivalence Principle in Modified Theories of Gravity. Physical Review Letters, 2007, 98, 061101.	7.8	108
141	Short-distance contribution to the spectrum of Hawking radiation. Physical Review D, 2007, 76, .	4.7	23
142	Limit to general relativity $f(R)$ theories of gravity. Physical Review D, 2007, 75, .	4.7	223
143	Static quantum corrections to the Schwarzschild spacetime. Journal of Physics: Conference Series, 2006, 33, 457-462.	0.4	14
144	Black Hole Radiance, Short Distances, and TeV Gravity. Physical Review Letters, 2006, 97, 041302.	7.8	14

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145	The Gravity Lagrangian According to Solar System Experiments. Physical Review Letters, 2005, 95, 261102.	7.8	290
146	Post-Newtonian constraints on $f(R)$ cosmologies in metric and Palatini formalism. Physical Review D, 2005, 72, .	4.7	337
147	Particles and energy fluxes from a conformal field theory perspective. Physical Review D, 2004, 70, .	4.7	6
148	Late-time correlators in semiclassical particle-black-hole scattering. Physical Review D, 2003, 68, .	4.7	1
149	Introduction to Palatini Theories of Gravity and Nonsingular Cosmologies. , 0, , .		4
150	Introduction to Modified Gravity: From the Cosmic Speedup Problem to Quantum Gravity Phenomenology. , 0, , .		0