JosÃ© Ps Lemos

List of Publications by Year
in descending order

153 papers	**6,766** citations	57758 **44** h-index
157 all docs	**157** docs citations	**157** times ranked

64796 **79** g-index

2181 citing authors

#	Article	IF	Citations
1	Extraction of energy from an extremal rotating electrovacuum black hole: Particle collisions in the equatorial plane. Physical Review D, 2022, 105, .	4.7	5
2	Quasinormal modes of Proca fields in a Schwarzschild-AdS spacetime. Physical Review D, 2022, 105, .	4.7	7
3	Bubble universes and traversable wormholes. Physical Review D, 2022, 105, .	4.7	3
4	Thermodynamics of d -dimensional Schwarzschild black holes in the canonical ensemble. Physical Review D, 2021, 103, .	4.7	12
5	All fundamental electrically charged thin shells in general relativity: From star shells to tension shell black holes, regular black holes, and beyond. Physical Review D, 2021, 103, .	4.7	6
6	Self-collision of a portal wormhole. Physical Review D, 2021, 103, .	4.7	5
7	Maximal extension of the Schwarzschild metric: From Painlevé–Gullstrand to Kruskal–Szekeres. Annals of Physics, 2021, 430, 168497.	2.8	6
8	Junction conditions for generalized hybrid metric-Palatini gravity with applications. Physical Review D, 2021, 104, .	4.7	14
9	Compact objects in general relativity: From Buchdahl stars to quasiblack holes. International Journal of Modern Physics D, 2020, 29, 2041019.	2.1	8
10	Gravitational field of a pit and maximal mass defects. Physical Review D, 2020, 102, .	4.7	1
11	Cosmological phase space of generalized hybrid metric-Palatini theories of gravity. Physical Review D, 2020, 101, .	4.7	22
12	Lensing and shadow of a black hole surrounded by a heavy accretion disk. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 035-035.	5.4	64
13	Stability of Kerr black holes in generalized hybrid metric-Palatini gravity. Physical Review D, 2020, 101, .	4.7	24
14	Thermodynamics of five-dimensional Schwarzschild black holes in the canonical ensemble. Physical Review D, 2020, 102, .	4.7	18
15	Thermodynamics and entropy of self-gravitating matter shells and black holes in d dimensions. Physical Review D, 2019, 99, .	4.7	8
16	Black holes, gravitational waves and fundamental physics: a roadmap. Classical and Quantum Gravity, 2019, 36, 143001.	4.0	451
17	Spontaneously broken symmetry restoration of quantum fields in the vicinity of neutral and electrically charged black holes. Journal of High Energy Physics, 2019, 2019, 1.	4.7	1
18	Cosmology of $f(R, R, ...)$ 2019, 99, .	4.7	12

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19	Covariant action for bouncing cosmologies in modified Gauss–Bonnet gravity. Annals of Physics, 2019, 404, 39-46.	2.8	11
20	Shadow of the Moon and general relativity: Einstein, Dyson, Eddington and the 1919 light deflection. Revista Brasileira De Ensino De Fisica, 2019, 41, .	0.2	2
21	Quantum vacuum polarization around a Reissner-Nordström black hole in five dimensions. Physical Review D, 2018, 97, .	4.7	0
22	Black hole mass formula in the membrane paradigm. Physical Review D, 2018, 97, .	4.7	3
23	Wormholes in generalized hybrid metric-Palatini gravity obeying the matter null energy condition everywhere. Physical Review D, 2018, 98, .	4.7	65
24	Black hole thermodynamics with the cosmological constant as independent variable: Bridge between the enthalpy and the Euclidean path integral approaches. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 296-299.	4.1	12
25	Stratified scalar field theories of gravitation with self-energy term and effective particle Lagrangian. European Physical Journal C, 2018, 78, 1.	3.9	2
26	Unified approach to the entropy of an extremal rotating BTZ black hole: Thin shells and horizon limits. Physical Review D, 2017, 96, .	4.7	11
27	Thermodynamics of extremal rotating thin shells in an extremal BTZ spacetime and the extremal black hole entropy. Physical Review D, 2017, 95, .	4.7	9
28	Plethora of relativistic charged spheres: The full spectrum of Guifoyle's static, electrically charged spherical solutions. Physical Review D, 2017, 95, .	4.7	7
29	Cosmological solutions in generalized hybrid metric-Palatini gravity. Physical Review D, 2017, 95, .	4.7	62
30	Magnetic black holes and monopoles in a nonminimal Einstein-Yang-Mills theory with a cosmological constant: Exact solutions. Physical Review D, 2016, 93, .	4.7	20
31	Entropy of extremal black holes: Horizon limits through charged thin shells in a unified approach. Physical Review D, 2016, 93, .	4.7	13
32	Regular black holes: Guilfoyle's electrically charged solutions with a perfect fluid phantom core. Physical Review D, 2016, 93, .	4.7	13
33	Vacuum polarization in asymptotically Lifshitz black holes. Physical Review D, 2016, 93, .	4.7	5
34	Regular nonminimal magnetic black holes in spacetimes with a cosmological constant. Physical Review D, 2016, 93, .	4.7	38
35	Black hole quantum vacuum polarization in higher dimensions. Physical Review D, 2016, 94, .	4.7	3
36	Rotating thin shells in (2 + 1)-dimensional asymptotically AdS spacetimes: Mechanical properties, machian effects, and energy conditions. International Journal of Modern Physics D, 2015, 24, 1542022.	2.1	5

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37	Entropy of a self-gravitating electrically charged thin shell and the black hole limit. Physical Review D, 2015, 91, .	4.7	18
38	Thermodynamics of rotating thin shells in the BTZ spacetime. Physical Review D, 2015, 92, .	4.7	22
39	Compact stars with a small electric charge: the limiting radius to mass relation and the maximum mass for incompressible matter. European Physical Journal C, 2015, 75, 1.	3.9	20
40	Sharp bounds on the radius of relativistic charged spheres: Guilfoyle's stars saturate the Buchdahl–Andréasson bound. Classical and Quantum Gravity, 2015, 32, 135009.	4.0	11
41	Newtonian wormholes with spherical symmetry and tidal forces on test particles. International Journal of Modern Physics D, 2015, 24, 1542020.	2.1	1
42	Entropy of an extremal electrically charged thin shell and the extremal black hole. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 306-311.	4.1	16
43	QUASIBLACK HOLES: PROPERTIES AND CARTER-PENROSE DIAGRAMS. , 2015, , .		1
44	Newtonian wormholes. General Relativity and Gravitation, 2014, 46, 1.	2.0	2
45	Entropy of thin shells in a (2+1)-dimensional asymptotically AdS spacetime and the BTZ black hole limit. Physical Review D, 2014, 89, .	4.7	17
46	Einstein-aether theory with a Maxwell field: General formalism. Annals of Physics, 2014, 350, 454-484.	2.8	29
47	EXTREMAL MYERS–PERRY BLACK HOLES COUPLED TO BORN–INFELD ELECTRODYNAMICS IN ODD DIMENSIONS. International Journal of Modern Physics D, 2014, 23, 1450032.	2.1	11
48	Incompressible relativistic spheres: Electrically charged stars, compactness bounds, and quasiblack hole configurations. Physical Review D, 2014, 89, .	4.7	22
49	Thermodynamics, entropy, and stability of thin shells in 2+1 flat spacetimes. Physical Review D, 2013, 88, .	4.7	6
50	Rotating cylindrical wormholes. Physical Review D, 2013, 87, .	4.7	53
51	Polytropic spheres with electric charge: Compact stars, the Oppenheimer-Volkoff and Buchdahl limits, and quasiblack holes. Physical Review D, 2013, 88, .	4.7	58
52	Quasinormal modes of regular black holes. Physical Review D, 2013, 87, .	4.7	126
53	Extremal Myers-Perry black holes coupled to Born-Infeld electrodynamics in five dimensions. Physical Review D, 2013, 87, .	4.7	11
54	Light propagation with nonminimal couplings in a two-component cosmic dark fluid with an Archimedean-type force, and unlighted cosmological epochs. Physical Review D, 2012, 85, .	4.7	8

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55	Regular black holes: Electrically charged solutions, Reissner-NordstrÃ¶m outside a deÂSitter core. Physical Review D, 2011, 83, .	4.7	122
56	Membrane paradigm and entropy of black holes in the Euclidean action approach. Physical Review D, 2011, 84, .	4.7	5
57	Holographic charge transport in Lifshitz black hole backgrounds. Journal of High Energy Physics, 2011, 2011, 1.	4.7	10
58	Entropy of extremal black holes from entropy of quasiblack holes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 37-40.	4.1	22
59	New regular black hole solutions. , 2011, , .		2
60	Quasiblack holes with pressure: Relativistic charged spheres as the frozen stars. Physical Review D, 2010, 81, .	4.7	28
61	Thin-shell wormholes ind-dimensional general relativity: Solutions, properties, and stability. Physical Review D, 2010, 82, .	4.7	119
62	Quasiblack holes with pressure: General exact results. Physical Review D, 2010, 82, .	4.7	14
63	Entropy of quasiblack holes. Physical Review D, 2010, 81, .	4.7	27
64	Nonminimal coupling for the gravitational and electromagnetic fields: Traversable electric wormholes. Physical Review D, 2010, 81, .	4.7	37
65	Publisherâ€™s Note: Nonminimal coupling for the gravitational and electromagnetic fields: Traversable electric wormholes [Phys. Rev. D81, 084015 (2010)]. Physical Review D, 2010, 81, .	4.7	0
66	Angular momentum and mass formulas for rotating stationary quasiblack holes. Physical Review D, 2009, 79, .	4.7	12
67	DeWitt-Schwinger renormalization and vacuum polarization in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>dimensions. Physical Review D, 2009, 80, .	4.7	15
68	Electrically charged fluids with pressure in Newtonian gravitation and general relativity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>spacetime dimensions: Theorems and results for Weyl type systems. Physical Review D, 2009, 80, .	4.7	19
69	Cylindrical wormholes. Physical Review D, 2009, 79, .	4.7	81
70	Hamiltonian thermodynamics of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>-dimensional (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 152 Td (xmlns:mml Reissner-NordstrÃ¶m-anti-de Sitter black holes with spherical, planar, and hyperbolic topology. Physical Review D, 2009, 79, .	4.7	16
71	Binary collisions and the slingshot effect. Celestial Mechanics and Dynamical Astronomy, 2008, 100, 191-208.	1.4	3
72	Hamiltonian thermodynamics of charged three-dimensional dilatonic black holes. Physical Review D, 2008, 78, .	4.7	7

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73	Plane symmetric thin-shell wormholes: Solutions and stability. Physical Review D, 2008, 78, .	4.7	124
74	Black hole mimickers: Regular versus singular behavior. Physical Review D, 2008, 78, .	4.7	60
75	Mass formula for quasi-black holes. Physical Review D, 2008, 78, .	4.7	11
76	Bonnor stars in d spacetime dimensions. Physical Review D, 2008, 77, .	4.7	25
77	COLLAPSING AND STATIC THIN MASSIVE CHARGED DUST SHELLS IN A REISSNER–NORDSTRÖM BLACK HOLE BACKGROUND IN HIGHER DIMENSIONS. International Journal of Modern Physics A, 2008, 23, 2943-2960.	1.5	33
78	Nonminimal coupling for the gravitational and electromagnetic fields: Black hole solutions and solitons. Physical Review D, 2008, 77, .	4.7	50
79	Hamiltonian thermodynamics of three-dimensional dilatonic black holes. Physical Review D, 2008, 78, .	4.7	2
80	Charged shells in Lovelock gravity: Hamiltonian treatment and physical implications. Physical Review D, 2007, 75, .	4.7	14
81	Quasi-black holes: Definition and general properties. Physical Review D, 2007, 76, .	4.7	48
82	Geometric parametrization of binary elastic collisions. American Journal of Physics, 2006, 74, 584-590.	0.7	4
83	Conformal entropy from horizon states: Solodukhin's method for spherical, toroidal, and hyperbolic black holes in D-dimensional anti-de Sitter spacetimes. Physical Review D, 2006, 74, .	4.7	11
84	Gravitational magnetic monopoles and Majumdar-Papapetrou stars. Journal of Mathematical Physics, 2006, 47, 042504.	1.1	25
85	New instability for rotating black branes and strings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 621, 219-223.	4.1	48
86	Non-minimal coupling for the gravitational and electromagnetic fields: a general system of equations. Classical and Quantum Gravity, 2005, 22, 1867-1880.	4.0	89
87	Class of exact solutions of Einstein's field equations in higher dimensional spacetimes, $d \geq 4$: Majumdar-Papapetrou solutions. Physical Review D, 2005, 71, .	4.7	19
88	Local conditions for the generalized covariant entropy bound. Physical Review D, 2005, 71, .	4.7	4
89	Tolman-Bondi-Vaidya spacetime: Matching timelike dust to null dust. Physical Review D, 2005, 71, .	4.7	7
90	Quasinormal modes and stability of the rotating acoustic black hole: Numerical analysis. Physical Review D, 2004, 70, .	4.7	58

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91	Nariai, Bertotti-Robinson, and anti-Nariai solutions in higher dimensions. Physical Review D, 2004, 70, .	4.7	78
92	Quasinormal modes and classical wave propagation in analogue black holes. Physical Review D, 2004, 70, .	4.7	133
93	Global embedding ofD-dimensional black holes with a cosmological constant in Minkowskian spacetimes: Matching between Hawking temperature and Unruh temperature. Physical Review D, 2004, 70, .	4.7	32
94	Pair creation of de Sitter black holes on a cosmic string background. Physical Review D, 2004, 69, .	4.7	18
95	Plane symmetric traversable wormholes in an anti–de Sitter background. Physical Review D, 2004, 69, .	4.7	104
96	Publisher's Note: Black-hole bomb and superradiant instabilities [Phys. Rev. D70, 044039 (2004)]. Physical Review D, 2004, 70, .	4.7	126
97	Black-hole bomb and superradiant instabilities. Physical Review D, 2004, 70, .	4.7	242
98	Pair creation of higher dimensional black holes on a de Sitter background. Physical Review D, 2004, 70, .	4.7	10
99	Quasiblack holes from extremal charged dust. Physical Review D, 2004, 69, .	4.7	43
100	Supergravityp-branes reexamined: Extra parameters, uniqueness, and topological censorship. Physical Review D, 2004, 70, .	4.7	9
101	OF CHARGED STARS AND CHARGED BLACK HOLES. International Journal of Modern Physics D, 2004, 13, 1375-1379.	2.1	18
102	Quasinormal modes of Schwarzschild black holes in four and higher dimensions. Physical Review D, 2004, 69, .	4.7	116
103	Letter: The Radial Infall of a Highly Relativistic Point Particle into a Kerr Black Hole Along the Symmetry Axis. General Relativity and Gravitation, 2003, 35, 327-333.	2.0	11
104	Electrically charged compact stars and formation of charged black holes. Physical Review D, 2003, 68, .	4.7	206
105	Pair of accelerated black holes in a de Sitter background: The dSCmetric. Physical Review D, 2003, 67, .	4.7	49
106	Morris-Thorne wormholes with a cosmological constant. Physical Review D, 2003, 68, .	4.7	282
107	Gravitational radiation from the radial infall of highly relativistic point particles into Kerr black holes. Physical Review D, 2003, 67, .	4.7	25
108	Quasinormal frequencies of Schwarzschild black holes in anti–de Sitter spacetimes: A complete study of the overtone asymptotic behavior. Physical Review D, 2003, 68, .	4.7	175

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109	Extremal limits of theCmetric: Nariai, Bertotti-Robinson, and anti-NariaiCmetrics. Physical Review D, 2003, 68, .	4.7	35
110	Gravitational radiation inD-dimensional spacetimes. Physical Review D, 2003, 67, .	4.7	154
111	Late-time tails of wave propagation in higher dimensional spacetimes. Physical Review D, 2003, 68, .	4.7	48
112	Pair of accelerated black holes in an antiâ€"de Sitter background: The AdSCmetric. Physical Review D, 2003, 67, .	4.7	80
113	Quasinormal modes of the near extremal Schwarzschildâ€"de Sitter black hole. Physical Review D, 2003, 67, .	4.7	165
114	Electromagnetic radiation from collisions at almost the speed of light: An extremely relativistic charged particle falling into a Schwarzschild black hole. Physical Review D, 2003, 68, .	4.7	20
115	Scalar-gravitational perturbations and quasinormal modes in the five dimensional Schwarzschild black hole. Journal of High Energy Physics, 2003, 2003, 041-041.	4.7	33
116	Four-dimensional antiâ€"de Sitter toroidal black holes from a three-dimensional perspective: Full complexity. Physical Review D, 2002, 66, .	4.7	3
117	Scalar synchrotron radiation in the Schwarzschildâ€"antiâ€"de Sitter geometry. Physical Review D, 2002, 65, .	4.7	11
118	Black hole collision with a scalar particle in four-, five-, and seven-dimensional antiâ€"de Sitter spacetimes: Ringing and radiation. Physical Review D, 2002, 66, .	4.7	12
119	Magnetic point sources in three-dimensional Brans-Dicke gravity theories. Physical Review D, 2002, 66, .	4.7	20
120	Black-hole collision with a scalar particle in three-dimensional antiâ€"de Sitter spacetime. Physical Review D, 2002, 65, .	4.7	3
121	QUASI-NORMAL MODES OF SCHWARZSCHILDâ€"ANTI-DE SITTER BLACK HOLES: ELECTROMAGNETIC AND GRAVITATIONAL PERTURBATIONS. International Journal of Modern Physics A, 2002, 17, 2752-2752.	1.5	0
122	RADIATION GENERATED BY THE INFALL OF A SCALAR PARTICLE IN A SCHWARZSCHILDâ€"ANTI-DE SITTER BACKGROUND. International Journal of Modern Physics A, 2002, 17, 2767-2767.	1.5	0
123	Magnetic strings in anti-de Sitter general relativity. Classical and Quantum Gravity, 2002, 19, 2265-2276.	4.0	44
124	Rotating magnetic solution in three dimensional Einstein gravity. Journal of High Energy Physics, 2002, 2002, 006-006.	4.7	65
125	Gravitational radiation from collisions at the speed of light: a massless particle falling into a Schwarzschild black hole. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 538, 1-5.	4.1	44
126	Quasinormal modes of Schwarzschildâ€"anti-de Sitter black holes: Electromagnetic and gravitational perturbations. Physical Review D, 2001, 64, .	4.7	277

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127	Supersymmetry of the extreme rotating toroidal black hole. Nuclear Physics B, 2001, 600, 272-284.	2.5	8
128	Static and rotating electrically charged black holes in three-dimensional Brans-Dicke gravity theories. Physical Review D, 2001, 64, .	4.7	17
129	Quasi-normal modes of toroidal, cylindrical and planar black holes in anti-de Sitter spacetimes: scalar, electromagnetic and gravitational perturbations. Classical and Quantum Gravity, 2001, 18, 5257-5267.	4.0	87
130	Cherenkov radiation in a gravitational-wave background. Classical and Quantum Gravity, 2001, 18, 2217-2232.	4.0	13
131	Singular behaviour of electric and magnetic fields in dielectric media in a nonlinear gravitational wave background. Classical and Quantum Gravity, 2001, 18, 941-953.	4.0	18
132	No-go theorem for false vacuum black holes. Classical and Quantum Gravity, 2001, 18, 1715-1726.	4.0	16
133	Scalar, electromagnetic, and Weyl perturbations of BTZ black holes: Quasinormal modes. Physical Review D, 2001, 63, .	4.7	297
134	False vacuum decay: Effective one-loop action for pair creation of domain walls. Journal of Mathematical Physics, 2001, 42, 3292-3298.	1.1	8
135	Interaction between gravitational waves and domain walls. Physical Review D, 2001, 64, .	4.7	1
136	Gravitational instabilities in helicity-1 waves propagating through matter in equilibrium. Classical and Quantum Gravity, 2000, 17, L117-L124.	4.0	2
137	Thermodynamics of toroidal black holes. Journal of Mathematical Physics, 2000, 41, 4783-4789.	1.1	42
138	Collapsing shells of radiation in anti–de Sitter spacetimes and the hoop and cosmic censorship conjectures. Physical Review D, 1999, 59, .	4.7	46
139	Thermodynamics of Reissner–Nordström–anti-de Sitter black holes in the grand canonical ensemble. Physical Review D, 1999, 59, .	4.7	128
140	Stationary black holes in a generalized three-dimensional theory of gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 423, 49-53.	4.1	19
141	Gravitational collapse to toroidal, cylindrical, and planar black holes. Physical Review D, 1998, 57, 4600-4605.	4.7	54
142	Three-dimensional BTZ black hole as a cylindrical system in four-dimensional general relativity. Physical Review D, 1996, 53, 4684-4686.	4.7	18
143	Rotating charged black strings and three-dimensional black holes. Physical Review D, 1996, 54, 3840-3853.	4.7	259
144	Thermodynamics of the two-dimensional black hole in the Teitelboim-Jackiw theory. Physical Review D, 1996, 54, 6206-6212.	4.7	31

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145	Black holes in three-dimensional dilaton gravity theories. Classical and Quantum Gravity, 1996, 13, 125-137.	4.0	38
146	Two-dimensional black holes and planar general relativity. Classical and Quantum Gravity, 1995, 12, 1081-1086.	4.0	167
147	NON-SINGULAR CONSTANT CURVATURE TWO-DIMENSIONAL BLACK HOLE. Modern Physics Letters A, 1994, 09, 771-774.	1.2	13
148	Exact general relativistic thin disks around black holes. Physical Review D, 1994, 49, 5135-5143.	4.7	86
149	Black holes of a general two-dimensional dilaton gravity theory. Physical Review D, 1994, 49, 2897-2908.	4.7	47
150	The two-dimensional analogue of general relativity. Classical and Quantum Gravity, 1994, 11, L11-L14.	4.0	16
151	Planar and axisymmetric walls in general relativity, a comparison. Journal of Mathematical Physics, 1994, 35, 3604-3611.	1.1	6
152	Naked singularities: Gravitationally collapsing configurations of dust or radiation in spherical symmetry, a unified treatment. Physical Review Letters, 1992, 68, 1447-1450.	7.8	69
153	A general class of spherical Newtonian self-similar solutions for a cold fluid â€" II. Solutions with gravity. Monthly Notices of the Royal Astronomical Society, 1989, 240, 317-327.	4.4	11