

# Lu?s Carlos Bassalo Crispino

## List of Publications by Year in descending order

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118  
papers

3,402  
citations

147801

31  
h-index

149698

56  
g-index

121  
all docs

121  
docs citations

121  
times ranked

1569  
citing authors

#	ARTICLE	IF	CITATIONS
1	Einstein-Maxwell-dilaton neutral black holes in strong magnetic fields: Topological charge, shadows, and lensing. <i>Physical Review D</i> , 2022, 105, .	4.7	21
2	Compact objects in quadratic Palatini gravity generated by a free scalar field. <i>Physical Review D</i> , 2022, 105, .	4.7	2
3	Tidal forces in dirty black hole spacetimes. <i>European Physical Journal C</i> , 2022, 82, .	3.9	5
4	Scattering properties of charged black holes in nonlinear and Maxwell's electrostatics. <i>European Physical Journal Plus</i> , 2022, 137, .	2.6	4
5	Can different black holes cast the same shadow?. <i>Physical Review D</i> , 2021, 103, .	4.7	72
6	Shadows and lensing of black holes immersed in strong magnetic fields. <i>Physical Review D</i> , 2021, 104, .	4.7	39
7	Scattering by deformed black holes. <i>Physical Review D</i> , 2021, 104, .	4.7	2
8	Absorption by stringy black holes. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	4
9	Radiation emitted by a source orbiting a Schwarzschild-anti-de Sitter black hole. <i>Physical Review D</i> , 2021, 104, .	4.7	2
10	Spinning black holes with a separable Hamilton-Jacobi equation from a modified Newman-Janis algorithm. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	19
11	Preface: Amazonia in the route of General Relativity. <i>International Journal of Modern Physics D</i> , 2020, 29, 2002005.	2.1	0
12	Analytical investigation of wave absorption by a rotating black hole analogue. <i>International Journal of Modern Physics D</i> , 2020, 29, 2041018.	2.1	3
13	Series reduction method for scattering of planar waves by Kerr black holes. <i>Physical Review D</i> , 2020, 102, .	4.7	6
14	Comment on "The equivalence principle in the Schwarzschild geometry" [Am. J. Phys. 62, 1037 (1994)]. <i>American Journal of Physics</i> , 2020, 88, 874-875.	0.7	1
15	The October 10, 1912 solar eclipse expeditions and the first attempt to measure light bending by the Sun. <i>International Journal of Modern Physics D</i> , 2020, 29, 2041001.	2.1	1
16	Shadows of charged rotating black holes: Kerr-Newman versus Kerr-Sen. <i>International Journal of Modern Physics D</i> , 2020, 29, 2041005.	2.1	36
17	Schwarzschild-like black holes: Light-like trajectories and massless scalar absorption. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	12
18	Electrically charged black holes in linear and nonlinear electrodynamics: Geodesic analysis and scalar absorption. <i>Physical Review D</i> , 2020, 102, .	4.7	18

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19	Synchrotron geodesic radiation in Schwarzschild-de Sitter spacetime. <i>Physical Review D</i> , 2020, 101, .	4.7	5
20	Scalar absorption: Black holes versus wormholes. <i>Physical Review D</i> , 2020, 101, .	4.7	20
21	The first attempts to measure light deflection by the Sun. <i>Nature Astronomy</i> , 2020, 4, 6-9.	10.1	8
22	On-axis tidal forces in Kerr spacetime. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	18
23	Tidal forces in the charged Hayward black hole spacetime. <i>International Journal of Modern Physics D</i> , 2020, 29, 2041014.	2.1	12
24	Scalar radiation from a source rotating around a regular black hole. <i>Physical Review D</i> , 2019, 100, .	4.7	8
25	Absorption by black hole remnants in metric-affine gravity. <i>Physical Review D</i> , 2019, 100, .	4.7	18
26	On-axis scattering of scalar fields by charged rotating black holes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 795, 496-501.	4.1	11
27	Scattering of massless bosonic fields by Kerr black holes: On-axis incidence. <i>Physical Review D</i> , 2019, 100, .	4.7	5
28	A hundred years of the first experimental test of general relativity. <i>Nature Physics</i> , 2019, 15, 416-419.	16.7	29
29	Black holes with surrounding matter and rainbow scattering. <i>Physical Review D</i> , 2019, 99, .	4.7	6
30	Massive and charged scalar field in Kerr-Newman spacetime: Absorption and superradiance. <i>Physical Review D</i> , 2019, 99, .	4.7	22
31	Expedição do Observatório Real de Greenwich para Sobral em 1919 - Anotações Tomadas pela Comissão Britânica. <i>Revista Brasileira De Ensino De Fisica</i> , 2019, 41, .	0.2	0
32	Scalar radiation from a radially infalling source into a Schwarzschild black hole in the framework of quantum field theory. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	4
33	Circular geodesic radiation in Schwarzschild spacetime: A semiclassical approach. <i>International Journal of Modern Physics D</i> , 2018, 27, 1843002.	2.1	2
34	Gibbons-Hawking radiation of gravitons in the Poincaré and static patches of de Sitter spacetime. <i>Physical Review D</i> , 2018, 97, .	4.7	6
35	Isothermal perfect fluid as a hydrodynamic vortex: Quasinormal mode investigation. <i>International Journal of Modern Physics D</i> , 2018, 27, 1843013.	2.1	1
36	On-axis scalar absorption cross section of Kerr-Newman black holes: Geodesic analysis, sinc and low-frequency approximations. <i>International Journal of Modern Physics D</i> , 2018, 27, 1843012.	2.1	13

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37	Cãñese do Laboratã³rio de Fã³sica da Universidade Federal do Parã³. Revista Brasileira De Ensino De Fisica, 2018, 40, .	0.2	0
38	Spectral lines of extreme compact objects. Physical Review D, 2018, 98, .	4.7	9
39	Expeditions for the observation in Sobral, Brazil, of the May 29, 1919 total solar eclipse. International Journal of Modern Physics D, 2018, 27, 1843004.	2.1	5
40	Synchronized stationary clouds in a static fluid. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 442-447.	4.1	6
41	Absorption of zero-mass planar waves by dirty black holes. International Journal of Modern Physics D, 2018, 27, 1843017.	2.1	2
42	Ergoregion instability of a rotating quantum system. Physical Review D, 2018, 97, .	4.7	5
43	Absorption of electromagnetic plane waves by rotating black holes. Physical Review D, 2018, 98, .	4.7	18
44	Gravitational waves emitted by a particle rotating around a Schwarzschild black hole: A semiclassical approach. Physical Review D, 2017, 95, .	4.7	10
45	Absorption of electromagnetic and gravitational waves by Kerr black holes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 130-134.	4.1	32
46	Scalar absorption by charged rotating black holes. Physical Review D, 2017, 96, .	4.7	15
47	Addendum to "Absorption of a massive scalar field by a charged black hole", Physical Review D, 2017, 95, .	4.7	10
48	Divulgaã³o cientã³fica na Amazã³nia: O Laboratã³rio de Demonstraã³es da UFPA. Revista Brasileira De Ensino De Fisica, 2017, 39, .	0.2	0
49	Explorando Histã³ria da Ciã³ncia na Amazã³nia: O Museu Interativo da Fã³sica. Revista Brasileira De Ensino De Fisica, 2016, 38, .	0.2	0
50	Preface by the Editors. International Journal of Modern Physics D, 2016, 25, 1602002.	2.1	1
51	Numerical relativity and high energy physics: Recent developments. International Journal of Modern Physics D, 2016, 25, 1641022.	2.1	8
52	Graviton two-point function in 3 + 1 static de Sitter spacetime. International Journal of Modern Physics D, 2016, 25, 1641016.	2.1	4
53	Crommelinã™s and Davidsonã™s visit to Amazonia and the 1919 total solar eclipse. International Journal of Modern Physics D, 2016, 25, 1641002.	2.1	3
54	Absorption of massless scalar field by rotating black holes. International Journal of Modern Physics D, 2016, 25, 1641024.	2.1	4

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55	Superresonant instability of a compressible hydrodynamic vortex. International Journal of Modern Physics D, 2016, 25, 1641019.	2.1	1
56	Scalar waves in regular Bardeen black holes: Scattering, absorption and quasinormal modes. International Journal of Modern Physics D, 2016, 25, 1641008.	2.1	16
57	Absorption by dirty black holes: Null geodesics and scalar waves. Physical Review D, 2016, 93, .	4.7	18
58	Superradiance in static black hole spacetimes. Physical Review D, 2016, 93, .	4.7	43
59	Quasinormal modes of relativistic stars and interacting fields. Physical Review D, 2016, 93, .	4.7	21
60	Amazonia Introduced to General Relativity: The May 29, 1919, Solar Eclipse from a North-Brazilian Point of View. Physics in Perspective, 2016, 18, 379-394.	0.7	8
61	Tidal forces in Reissner-Nordström spacetimes. European Physical Journal C, 2016, 76, 1.	3.9	31
62	Acoustic clouds: Standing sound waves around a black hole analogue. Physical Review D, 2015, 91, .	4.7	25
63	Scattering by regular black holes: Planar massless scalar waves impinging upon a Bardeen black hole. Physical Review D, 2015, 92, .	4.7	39
64	Quasinormal modes of the polytropic hydrodynamic vortex. Physical Review D, 2015, 92, .	4.7	8
65	Scattering from charged black holes and supergravity. Physical Review D, 2015, 92, .	4.7	34
66	Slowly rotating anisotropic neutron stars in general relativity and scalar-tensor theory. Classical and Quantum Gravity, 2015, 32, 145008.	4.0	121
67	Evidence for event horizons: Long-lived modes in ultracompact objects. International Journal of Modern Physics D, 2015, 24, 1542023.	2.1	1
68	Stationary bound states of massless scalar fields around black holes and black hole analogues. International Journal of Modern Physics D, 2015, 24, 1542018.	2.1	7
69	QUASINORMAL MODES OF THE DRAINING BATHTUB. , 2015, , .		0
70	Absorption of planar massless scalar waves by Bardeen regular black holes. Physical Review D, 2014, 90, .	4.7	47
71	Light rings as observational evidence for event horizons: Long-lived modes, ergoregions and nonlinear instabilities of ultracompact objects. Physical Review D, 2014, 90, .	4.7	198
72	Kerr-Newman scalar clouds. Physical Review D, 2014, 90, .	4.7	128

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73	Infrared-finite graviton two-point function in static de Sitter space. <i>Physical Review D</i> , 2014, 90, .	4.7	15
74	Ergoregion instability: The hydrodynamic vortex. <i>Physical Review D</i> , 2014, 89, .	4.7	29
75	Inferring black hole charge from backscattered electromagnetic radiation. <i>Physical Review D</i> , 2014, 90, .	4.7	33
76	Absorption of a massive scalar field by a charged black hole. <i>Physical Review D</i> , 2014, 89, .	4.7	49
77	INTO THE LAIR: GRAVITATIONAL-WAVE SIGNATURES OF DARK MATTER. <i>Astrophysical Journal</i> , 2013, 774, 48.	4.5	135
78	Absorption of planar massless scalar waves by Kerr black holes. <i>Physical Review D</i> , 2013, 88, .	4.7	35
79	Astrophysical signatures of boson stars: Quasinormal modes and inspiral resonances. <i>Physical Review D</i> , 2013, 88, .	4.7	106
80	Greybody factors for nonminimally coupled scalar fields in Schwarzschild-de Sitter spacetime. <i>Physical Review D</i> , 2013, 87, .	4.7	44
81	Comment on "Hawking Radiation, Unruh Radiation, and the Equivalence Principle". <i>Physical Review Letters</i> , 2012, 108, 049001; discussion 049002.	7.8	13
82	Resonances of a rotating black hole analogue. <i>Physical Review D</i> , 2012, 85, .	4.7	38
83	Semiclassical analysis of the scalar geodesic synchrotron radiation in Kerr spacetime. <i>Physical Review D</i> , 2012, 86, .	4.7	13
84	Latent solitons, black strings, black branes, and equations of state in Kaluza-Klein models. <i>Physical Review D</i> , 2011, 84, .	4.7	16
85	Slowly rotating black holes in alternative theories of gravity. <i>Physical Review D</i> , 2011, 84, .	4.7	152
86	Pseudo-Newtonian potentials and the radiation emitted by a source swirling around a stellar object. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 697, 506-511.	4.1	5
87	Aharonov-Bohm effect in a draining bathtub vortex. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 701, 485-489.	4.1	37
88	Quantization of the Proca field in the Rindler wedge and the interaction of uniformly accelerated currents with massive vector bosons from the Unruh thermal bath. <i>Physical Review D</i> , 2011, 84, .	4.7	3
89	Equality between gravitational and electromagnetic absorption cross sections of extreme Reissner-Nordström black holes. <i>Physical Review D</i> , 2011, 84, .	4.7	27
90	Quasinormal modes and Regge poles of the canonical acoustic hole. <i>Physical Review D</i> , 2010, 82, .	4.7	26

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91	Low-frequency absorption cross section of the electromagnetic waves for extreme Reissner-Nordström black holes in higher dimensions. Physical Review D, 2010, 82, .	4.7	19
92	Influence of boundary conditions on the radiation emitted by an accelerated source. Physical Review D, 2010, 81, .	4.7	2
93	Absorption of planar waves in a draining bathtub. Physical Review D, 2010, 81, .	4.7	46
94	Electromagnetic Wave Scattering by Schwarzschild Black Holes. Physical Review Letters, 2009, 102, 231103.	7.8	53
95	Scattering of massless scalar waves by Reissner-Nordström black holes. Physical Review D, 2009, 79, .	4.7	81
96	Scattering of sound waves by a canonical acoustic hole. Physical Review D, 2009, 79, .	4.7	46
97	Electromagnetic absorption cross section of Reissner-Nordström black holes revisited. Physical Review D, 2009, 80, .	4.7	33
98	Scalar radiation emitted from a rotating source around a Reissner-Nordström black hole. Physical Review D, 2009, 79, .	4.7	14
99	The Unruh effect and its applications. Reviews of Modern Physics, 2008, 80, 787-838.	45.6	634
100	Electromagnetic absorption cross section of Reissner-Nordström black holes. Physical Review D, 2008, 78, .	4.7	28
101	Synchrotron scalar radiation from a source in ultrarelativistic circular orbits around a Schwarzschild black hole. Physical Review D, 2008, 77, .	4.7	16
102	Absorption cross section of canonical acoustic holes. Physical Review D, 2007, 76, .	4.7	33
103	Absorption cross section of electromagnetic waves for Schwarzschild black holes. Physical Review D, 2007, 75, .	4.7	43
104	Source coupled to the massive scalar field orbiting a stellar object. Physical Review D, 2007, 75, .	4.7	19
105	ABSORPTION CROSS SECTIONS OF LOW ENERGY PHOTONS FOR THE SCHWARZSCHILD AND EXTREME REISSNER-NORDSTRÖM BLACK HOLES IN ARBITRARY DIMENSIONS HIGHER THAN THREE. , 2006, , .		0
106	Electric charge rotating around a black hole. Brazilian Journal of Physics, 2005, 35, 1080-1083.	1.4	2
107	Scalar source in circular motion interacting with massive klein-gordon field in Minkowski spacetime. Brazilian Journal of Physics, 2005, 35, 1084.	1.4	1
108	Semiclassical approach to black hole absorption of electromagnetic radiation emitted by a rotating charge. Physical Review D, 2005, 71, .	4.7	23

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109	Is the equivalence for the response of static scalar sources in the Schwarzschild and Rindler spacetimes valid only in four dimensions?. <i>Physical Review D</i> , 2004, 70, .	4.7	4
110	Response rate of a uniformly accelerated source in the presence of boundaries. <i>Physical Review D</i> , 2004, 70, .	4.7	12
111	Free massive particles with total energy $E < mc^2$ in curved spacetimes. <i>Physical Review D</i> , 2002, 65, .	4.7	14
112	Quantization of the electromagnetic field outside static black holes and its application to low-energy phenomena. <i>Physical Review D</i> , 2001, 63, .	4.7	68
113	Scalar radiation emitted from a source rotating around a black hole. <i>Classical and Quantum Gravity</i> , 2000, 17, 19-32.	4.0	39
114	Non-relativistic spacetimes with cosmological constant. <i>Classical and Quantum Gravity</i> , 1999, 16, 495-506.	4.0	49
115	Interaction of Hawking radiation and a static electric charge. <i>Physical Review D</i> , 1998, 58, .	4.7	18
116	Sombras de buracos negros: desvendando a física por detrás da imagem de M87. <i>Revista Brasileira De Ensino De Fisica</i> , 0, 43, .	0.2	0
117	Movimento de partículas-teste no espaço-tempo de Reissner-Nordström. <i>Revista Brasileira De Ensino De Fisica</i> , 0, 42, .	0.2	0
118	Órbitas esféricas de íons ao redor de um buraco negro de Kerr. <i>Revista Brasileira De Ensino De Fisica</i> , 0, 42, .	0.2	0