

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	The Unruh effect and its applications. <i>Reviews of Modern Physics</i> , 2008, 80, 787-838.	45.6	634
2	Light rings as observational evidence for event horizons: Long-lived modes, ergoregions and nonlinear instabilities of ultracompact objects. <i>Physical Review D</i> , 2014, 90, .	4.7	198
3	Slowly rotating black holes in alternative theories of gravity. <i>Physical Review D</i> , 2011, 84, .	4.7	152
4	INTO THE LAIR: GRAVITATIONAL-WAVE SIGNATURES OF DARK MATTER. <i>Astrophysical Journal</i> , 2013, 774, 48.	4.5	135
5	Kerr-Newman scalar clouds. <i>Physical Review D</i> , 2014, 90, .	4.7	128
6	Slowly rotating anisotropic neutron stars in general relativity and scalar-tensor theory. <i>Classical and Quantum Gravity</i> , 2015, 32, 145008.	4.0	121
7	Astrophysical signatures of boson stars: Quasinormal modes and inspiral resonances. <i>Physical Review D</i> , 2013, 88, .	4.7	106
8	Scattering of massless scalar waves by Reissner-Nordström black holes. <i>Physical Review D</i> , 2009, 79, .	4.7	81
9	Can different black holes cast the same shadow?. <i>Physical Review D</i> , 2021, 103, .	4.7	72
10	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
11	Electromagnetic Wave Scattering by Schwarzschild Black Holes. <i>Physical Review Letters</i> , 2009, 102, 231103.	7.8	53
12	Non-relativistic spacetimes with cosmological constant. <i>Classical and Quantum Gravity</i> , 1999, 16, 495-506.	4.0	49
13	Absorption of a massive scalar field by a charged black hole. <i>Physical Review D</i> , 2014, 89, .	4.7	49
14	Absorption of planar massless scalar waves by Bardeen regular black holes. <i>Physical Review D</i> , 2014, 90, .	4.7	47
15	Scattering of sound waves by a canonical acoustic hole. <i>Physical Review D</i> , 2009, 79, .	4.7	46
16	Absorption of planar waves in a draining bathtub. <i>Physical Review D</i> , 2010, 81, .	4.7	46
17	Greybody factors for nonminimally coupled scalar fields in Schwarzschild-de Sitter spacetime. <i>Physical Review D</i> , 2013, 87, .	4.7	44
18	Absorption cross section of electromagnetic waves for Schwarzschild black holes. <i>Physical Review D</i> , 2007, 75, .	4.7	43

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19	Superradiance in static black hole spacetimes. <i>Physical Review D</i> , 2016, 93, .	4.7	43
20	Scalar radiation emitted from a source rotating around a black hole. <i>Classical and Quantum Gravity</i> , 2000, 17, 19-32.	4.0	39
21	Scattering by regular black holes: Planar massless scalar waves impinging upon a Bardeen black hole. <i>Physical Review D</i> , 2015, 92, .	4.7	39
22	Shadows and lensing of black holes immersed in strong magnetic fields. <i>Physical Review D</i> , 2021, 104, .	4.7	39
23	Resonances of a rotating black hole analogue. <i>Physical Review D</i> , 2012, 85, .	4.7	38
24	Aharonovâ€™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
25	Shadows of charged rotating black holes: Kerrâ€™Newman versus Kerrâ€™Sen. <i>International Journal of Modern Physics D</i> , 2020, 29, 2041005.	2.1	36
26	Absorption of planar massless scalar waves by Kerr black holes. <i>Physical Review D</i> , 2013, 88, .	4.7	35
27	Scattering from charged black holes and supergravity. <i>Physical Review D</i> , 2015, 92, .	4.7	34
28	Absorption cross section of canonical acoustic holes. <i>Physical Review D</i> , 2007, 76, .	4.7	33
29	Electromagnetic absorption cross section of Reissner-Nordstr�m black holes revisited. <i>Physical Review D</i> , 2009, 80, .	4.7	33
30	Inferring black hole charge from backscattered electromagnetic radiation. <i>Physical Review D</i> , 2014, 90, .	4.7	33
31	Absorption of electromagnetic and gravitational waves by Kerr black holes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 774, 130-134.	4.1	32
32	Tidal forces in Reissnerâ€™Nordstr�m spacetimes. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	31
33	Ergoregion instability: The hydrodynamic vortex. <i>Physical Review D</i> , 2014, 89, .	4.7	29
34	A hundred years of the first experimental test of general relativity. <i>Nature Physics</i> , 2019, 15, 416-419.	16.7	29
35	Electromagnetic absorption cross section of Reissner-Nordstr�m black holes. <i>Physical Review D</i> , 2008, 78, .	4.7	28
36	Equality between gravitational and electromagnetic absorption cross sections of extreme Reissner-Nordstr�m black holes. <i>Physical Review D</i> , 2011, 84, .	4.7	27

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37	Quasinormal modes and Regge poles of the canonical acoustic hole. <i>Physical Review D</i> , 2010, 82, .	4.7	26
38	Acoustic clouds: Standing sound waves around a black hole analogue. <i>Physical Review D</i> , 2015, 91, .	4.7	25
39	Semiclassical approach to black hole absorption of electromagnetic radiation emitted by a rotating charge. <i>Physical Review D</i> , 2005, 71, .	4.7	23
40	Massive and charged scalar field in Kerr-Newman spacetime: Absorption and superradiance. <i>Physical Review D</i> , 2019, 99, .	4.7	22
41	Quasinormal modes of relativistic stars and interacting fields. <i>Physical Review D</i> , 2016, 93, .	4.7	21
42	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
43	Scalar absorption: Black holes versus wormholes. <i>Physical Review D</i> , 2020, 101, .	4.7	20
44	Source coupled to the massive scalar field orbiting a stellar object. <i>Physical Review D</i> , 2007, 75, .	4.7	19
45	Low-frequency absorption cross section of the electromagnetic waves for extreme Reissner-Nordström black holes in higher dimensions. <i>Physical Review D</i> , 2010, 82, .	4.7	19
46	Spinning black holes with a separable Hamiltonian-Jacobi equation from a modified Newman-Janis algorithm. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	19
47	Interaction of Hawking radiation and a static electric charge. <i>Physical Review D</i> , 1998, 58, .	4.7	18
48	Absorption by dirty black holes: Null geodesics and scalar waves. <i>Physical Review D</i> , 2016, 93, .	4.7	18
49	Absorption of electromagnetic plane waves by rotating black holes. <i>Physical Review D</i> , 2018, 98, .	4.7	18
50	Absorption by black hole remnants in metric-affine gravity. <i>Physical Review D</i> , 2019, 100, .	4.7	18
51	Electrically charged black holes in linear and nonlinear electrodynamics: Geodesic analysis and scalar absorption. <i>Physical Review D</i> , 2020, 102, .	4.7	18
52	On-axis tidal forces in Kerr spacetime. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	18
53	Synchrotron scalar radiation from a source in ultrarelativistic circular orbits around a Schwarzschild black hole. <i>Physical Review D</i> , 2008, 77, .	4.7	16
54	Latent solitons, black strings, black branes, and equations of state in Kaluza-Klein models. <i>Physical Review D</i> , 2011, 84, .	4.7	16

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55	Scalar waves in regular Bardeen black holes: Scattering, absorption and quasinormal modes. International Journal of Modern Physics D, 2016, 25, 1641008.	2.1	16
56	Infrared-finite graviton two-point function in static de Sitter space. Physical Review D, 2014, 90, .	4.7	15
57	Scalar absorption by charged rotating black holes. Physical Review D, 2017, 96, .	4.7	15
58	Free massive particles with total energy $E < mc^2$ in curved spacetimes. Physical Review D, 2002, 65, .	4.7	14
59	Scalar radiation emitted from a rotating source around a Reissner-Nordström black hole. Physical Review D, 2009, 79, .	4.7	14
60	Comment on "Hawking Radiation, Unruh Radiation, and the Equivalence Principle". Physical Review Letters, 2012, 108, 049001; discussion 049002.	7.8	13
61	Semiclassical analysis of the scalar geodesic synchrotron radiation in Kerr spacetime. Physical Review D, 2012, 86, .	4.7	13
62	On-axis scalar absorption cross section of Kerr-Newman black holes: Geodesic analysis, sinc and low-frequency approximations. International Journal of Modern Physics D, 2018, 27, 1843012.	2.1	13
63	Response rate of a uniformly accelerated source in the presence of boundaries. Physical Review D, 2004, 70, .	4.7	12
64	Schwarzschild-like black holes: Light-like trajectories and massless scalar absorption. European Physical Journal C, 2020, 80, 1.	3.9	12
65	Tidal forces in the charged Hayward black hole spacetime. International Journal of Modern Physics D, 2020, 29, 2041014.	2.1	12
66	On-axis scattering of scalar fields by charged rotating black holes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 496-501.	4.1	11
67	Gravitational waves emitted by a particle rotating around a Schwarzschild black hole: A semiclassical approach. Physical Review D, 2017, 95, .	4.7	10
68	Addendum to "Absorption of a massive scalar field by a charged black hole". Physical Review D, 2017, 95, .	4.7	10
69	Spectral lines of extreme compact objects. Physical Review D, 2018, 98, .	4.7	9
70	Quasinormal modes of the polytropic hydrodynamic vortex. Physical Review D, 2015, 92, .	4.7	8
71	Numerical relativity and high energy physics: Recent developments. International Journal of Modern Physics D, 2016, 25, 1641022.	2.1	8
72	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

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73	Scalar radiation from a source rotating around a regular black hole. <i>Physical Review D</i> , 2019, 100, .	4.7	8
74	The first attempts to measure light deflection by the Sun. <i>Nature Astronomy</i> , 2020, 4, 6-9.	10.1	8
75	Stationary bound states of massless scalar fields around black holes and black hole analogues. <i>International Journal of Modern Physics D</i> , 2015, 24, 1542018.	2.1	7
76	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
77	Synchronized stationary clouds in a static fluid. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 786, 442-447.	4.1	6
78	Black holes with surrounding matter and rainbow scattering. <i>Physical Review D</i> , 2019, 99, .	4.7	6
79	Series reduction method for scattering of planar waves by Kerr black holes. <i>Physical Review D</i> , 2020, 102, .	4.7	6
80	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
81	Expeditions for the observation in Sobral, Brazil, of the May 29, 1919 total solar eclipse. <i>International Journal of Modern Physics D</i> , 2018, 27, 1843004.	2.1	5
82	Ergoregion instability of a rotating quantum system. <i>Physical Review D</i> , 2018, 97, .	4.7	5
83	Scattering of massless bosonic fields by Kerr black holes: On-axis incidence. <i>Physical Review D</i> , 2019, 100, .	4.7	5
84	Synchrotron geodesic radiation in Schwarzschild-de Sitter spacetime. <i>Physical Review D</i> , 2020, 101, .	4.7	5
85	Tidal forces in dirty black hole spacetimes. <i>European Physical Journal C</i> , 2022, 82, .	3.9	5
86	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
87	Graviton two-point function in 3 + 1 static de Sitter spacetime. <i>International Journal of Modern Physics D</i> , 2016, 25, 1641016.	2.1	4
88	Absorption of massless scalar field by rotating black holes. <i>International Journal of Modern Physics D</i> , 2016, 25, 1641024.	2.1	4
89	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
90	Absorption by stringy black holes. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	4

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91	Scattering properties of charged black holes in nonlinear and Maxwell's electrostatics. <i>European Physical Journal Plus</i> , 2022, 137, .	2.6	4
92	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
93	Crommelin's and Davidson's visit to Amazonia and the 1919 total solar eclipse. <i>International Journal of Modern Physics D</i> , 2016, 25, 1641002.	2.1	3
94	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
95	Electric charge rotating around a black hole. <i>Brazilian Journal of Physics</i> , 2005, 35, 1080-1083.	1.4	2
96	Influence of boundary conditions on the radiation emitted by an accelerated source. <i>Physical Review D</i> , 2010, 81, .	4.7	2
97	Circular geodesic radiation in Schwarzschild spacetime: A semiclassical approach. <i>International Journal of Modern Physics D</i> , 2018, 27, 1843002.	2.1	2
98	Absorption of zero-mass planar waves by dirty black holes. <i>International Journal of Modern Physics D</i> , 2018, 27, 1843017.	2.1	2
99	Scattering by deformed black holes. <i>Physical Review D</i> , 2021, 104, .	4.7	2
100	Compact objects in quadratic Palatini gravity generated by a free scalar field. <i>Physical Review D</i> , 2022, 105, .	4.7	2
101	Radiation emitted by a source orbiting a Schwarzschild-anti-de Sitter black hole. <i>Physical Review D</i> , 2021, 104, .	4.7	2
102	Scalar source in circular motion interacting with massive Klein-Gordon field in Minkowski spacetime. <i>Brazilian Journal of Physics</i> , 2005, 35, 1084.	1.4	1
103	Evidence for event horizons: Long-lived modes in ultracompact objects. <i>International Journal of Modern Physics D</i> , 2015, 24, 1542023.	2.1	1
104	Preface by the Editors. <i>International Journal of Modern Physics D</i> , 2016, 25, 1602002.	2.1	1
105	Superresonant instability of a compressible hydrodynamic vortex. <i>International Journal of Modern Physics D</i> , 2016, 25, 1641019.	2.1	1
106	Isothermal perfect fluid as a hydrodynamic vortex: Quasinormal mode investigation. <i>International Journal of Modern Physics D</i> , 2018, 27, 1843013.	2.1	1
107	Comment on "The equivalence principle in the Schwarzschild geometry" [<i>Am. J. Phys.</i> 62, 1037 (1994)]. <i>American Journal of Physics</i> , 2020, 88, 874-875.	0.7	1
108	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

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109	Explorando História da Ciência na Amazônia: O Museu Interativo da Física. Revista Brasileira De Ensino De Fisica, 2016, 38, .	0.2	0
110	Divulgação científica na Amazônia: O Laboratório de Demonstrações da UFPA. Revista Brasileira De Ensino De Fisica, 2017, 39, .	0.2	0
111	Cênese do Laboratório de Física da Universidade Federal do Pará. Revista Brasileira De Ensino De Fisica, 2018, 40, .	0.2	0
112	Preface: Amazonia in the route of General Relativity. International Journal of Modern Physics D, 2020, 29, 2002005.	2.1	0
113	Sombras de buracos negros: desvendando a física por detrás da imagem de M87. Revista Brasileira De Ensino De Fisica, 0, 43, .	0.2	0
114	ABSORPTION CROSS SECTIONS OF LOW ENERGY PHOTONS FOR THE SCHWARZSCHILD AND EXTREME REISSNER-NORDSTRÖM BLACK HOLES IN ARBITRARY DIMENSIONS HIGHER THAN THREE. , 2006, , .		0
115	QUASINORMAL MODES OF THE DRAINING BATHTUB. , 2015, , .		0
116	Expedição do Observatório Real de Greenwich para Sobral em 1919 - Anotações Tomadas pela Comissão Britânica. Revista Brasileira De Ensino De Fisica, 2019, 41, .	0.2	0
117	Movimento de partículas-teste no espaço-tempo de Reissner-Nordström. Revista Brasileira De Ensino De Fisica, 0, 42, .	0.2	0
118	Órbitas esféricas de fótons ao redor de um buraco negro de Kerr. Revista Brasileira De Ensino De Fisica, 0, 42, .	0.2	0