Miguel Zilhao

List of Publications by Year in descending order

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218677 155660 3,096 61 26 55 h-index citations g-index papers 62 62 62 2589 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Testing general relativity with present and future astrophysical observations. Classical and Quantum Gravity, 2015, 32, 243001.	4.0	943
2	Black holes, gravitational waves and fundamental physics: a roadmap. Classical and Quantum Gravity, 2019, 36, 143001.	4.0	451
3	Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1.	2.0	198
4	Nonlinear Dynamics of Spinning Bosonic Stars: Formation and Stability. Physical Review Letters, 2019, 123, 221101.	7.8	82
5	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	26.7	82
6	Lensing and dynamics of ultracompact bosonic stars. Physical Review D, 2017, 96, .	4.7	73
7	Nonlinear interactions between black holes and Proca fields. Classical and Quantum Gravity, 2015, 32, 234003.	4.0	68
8	Quasi-periodic Behavior of Mini-disks in Binary Black Holes Approaching Merger. Astrophysical Journal Letters, 2018, 853, L17.	8.3	65
9	Thermodynamics, transport and relaxation in non-conformal theories. Journal of High Energy Physics, 2016, 2016, 1.	4.7	56
10	AN INTRODUCTION TO THE EINSTEIN TOOLKIT. International Journal of Modern Physics A, 2013, 28, 1340014.	1.5	55
11	Holographic Collisions across a Phase Transition. Physical Review Letters, 2018, 121, 261601.	7.8	53
12	Mathisson's helical motions for a spinning particle: Are they unphysical?. Physical Review D, 2012, 85, .	4.7	52
13	Numerical relativity forDdimensional space-times: Head-on collisions of black holes and gravitational wave extraction. Physical Review D, 2010, 82, .	4.7	51
14	Numerical relativity for <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>D</mml:mi></mml:math> dimensional axially symmetric space-times: Formalism and code tests. Physical Review D, 2010, 81, .	4.7	51
15	NR/HEP: roadmap for the future. Classical and Quantum Gravity, 2012, 29, 244001.	4.0	50
16	Collisions of charged black holes. Physical Review D, 2012, 85, .	4.7	49
17	Phase transitions, inhomogeneous horizons and second-order hydrodynamics. Journal of High Energy Physics, 2017, 2017, 1.	4.7	41
18	Paths to equilibrium in non-conformal collisions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	40

#	Article	IF	CITATIONS
19	Strong cosmic censorship: The nonlinear story. Physical Review D, 2019, 99, .	4.7	38
20	Collisions of oppositely charged black holes. Physical Review D, 2014, 89, .	4.7	36
21	Holographic collisions in non-conformal theories. Journal of High Energy Physics, 2017, 2017, 1.	4.7	36
22	Black holes in a box: Toward the numerical evolution of black holes in AdS space-times. Physical Review D, 2010, 82, .	4.7	35
23	Dynamical bar-mode instability in spinning bosonic stars. Physical Review D, 2020, 102, .	4.7	35
24	Head-on collisions of unequal mass black holes inD=5dimensions. Physical Review D, 2011, 83, .	4.7	32
25	Testing the nonlinear stability of Kerr-Newman black holes. Physical Review D, 2014, 90, .	4.7	27
26	Bubble wall velocity from holography. Physical Review D, 2021, 104, .	4.7	27
27	Synchronized gravitational atoms from mergers of bosonic stars. Physical Review D, 2020, 102, .	4.7	26
28	Spacetime dynamics of spinning particles: Exact electromagnetic analogies. Physical Review D, 2016, 93,	4.7	25
29	Dynamics of phase separation from holography. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23
30	Black hole binaries: Ergoregions, photon surfaces, wave scattering, and quasinormal modes. Physical Review D, 2018, 98, .	4.7	21
31	Resolving the relative influence of strong field spacetime dynamics and MHD on circumbinary disk physics. Physical Review D, 2015, 91, .	4.7	20
32	Towards spacetime entanglement entropy for interacting theories. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
33	Dynamics of black holes in de Sitter spacetimes. Physical Review D, 2012, 85, .	4.7	19
34	Black hole binaries and light fields: Gravitational molecules. Physical Review D, 2021, 103, .	4.7	19
35	Mass-ratio and Magnetic Flux Dependence of Modulated Accretion from Circumbinary Disks. Astrophysical Journal, 2021, 922, 175.	4.5	19
36	Dynamic fisheye grids for binary black hole simulations. Classical and Quantum Gravity, 2014, 31, 065013.	4.0	18

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37	Crossing a large-N phase transition at finite volume. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
38	Physics of black hole binaries: Geodesics, relaxation modes, and energy extraction. Physical Review D, 2019, 100, .	4.7	17
39	Higher-dimensional puncture initial data. Physical Review D, 2011, 84, .	4.7	15
40	Black hole fusion in the extreme mass ratio limit. Physical Review D, 2018, 97, .	4.7	15
41	A double Myers-Perry black hole in five dimensions. Journal of High Energy Physics, 2008, 2008, 009-009.	4.7	12
42	Dynamical friction in slab geometries and accretion discs. Monthly Notices of the Royal Astronomical Society, 2019, 489, 5424-5435.	4.4	11
43	Hyperbolicity of general relativity in Bondi-like gauges. Physical Review D, 2020, 102, .	4.7	11
44	Mass inflation in a < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" > < mml:mi > D < /mml:mi > < /mml:math > -dimensional Reissner-Nordstr $ ilde{A}$ $ ilde{q}$ m black hole: A hierarchy of particle accelerators?. Physical Review D, 2011, 84, .	4.7	10
45	Higher dimensional numerical relativity: Code comparison. Physical Review D, 2014, 90, .	4.7	10
46	Collective Scalarization or Tachyonization: When Averaging Fails. Physical Review Letters, 2020, 124, 221104.	7.8	8
47	Domain collisions. Journal of High Energy Physics, 2022, 2022, .	4.7	6
48	Black holes in a box. Journal of Physics: Conference Series, 2010, 229, 012072.	0.4	5
49	Mathisson's helical motions demystified. , 2012, , .		4
50	Gauge structure of the Einstein field equations in Bondi-like coordinates. Physical Review D, 2022, 105,	4.7	4
51	Instabilities of Scalar Fields around Oscillating Stars. Physical Review Letters, 2021, 127, 191101.	7.8	3
52	Numerical relativity in higher dimensions. Journal of Physics: Conference Series, 2010, 229, 012074.	0.4	2
53	Simulations of black holes in compactified spacetimes. Journal of Physics: Conference Series, 2011, 314, 012103.	0.4	2
54	Numerical Relativity in <i>D</i> dimensional space-times: Collisions of unequal mass black holes. Journal of Physics: Conference Series, 2011, 314, 012104.	0.4	2

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55	Inspiraling black-hole binary spacetimes: Challenges in transitioning from analytical to numerical techniques. Physical Review D, 2016, 93, .	4.7	2
56	A Double Myers-Perry Black Hole: an Inverse Scattering Construction. , 2009, , .		1
57	DYNAMICS OF CHARGED BLACK HOLES. , 2015, , .		1
58	Binary superradiance: A numerical study. Physical Review D, 2022, 105, .	4.7	1
59	BLACK HOLES IN A BOX., 2012,,.		0
60	Paths to equilibrium in non-conformal collisions. EPJ Web of Conferences, 2018, 175, 07030.	0.3	0
61	Black Hole Collisions in Asymptotically de Sitter Spacetimes. Springer Proceedings in Physics, 2014, , 247-254.	0.2	0