

Miguel Zilhao

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,096
citations

218677

26
h-index

155660

55
g-index

62
all docs

62
docs citations

62
times ranked

2589
citing authors

#	ARTICLE	IF	CITATIONS
1	Binary superradiance: A numerical study. <i>Physical Review D</i> , 2022, 105, .	4.7	1
2	Gauge structure of the Einstein field equations in Bondi-like coordinates. <i>Physical Review D</i> , 2022, 105, .	4.7	4
3	Domain collisions. <i>Journal of High Energy Physics</i> , 2022, 2022, .	4.7	6
4	New horizons for fundamental physics with LISA. <i>Living Reviews in Relativity</i> , 2022, 25, .	26.7	82
5	Crossing a large-N phase transition at finite volume. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	18
6	Black hole binaries and light fields: Gravitational molecules. <i>Physical Review D</i> , 2021, 103, .	4.7	19
7	Instabilities of Scalar Fields around Oscillating Stars. <i>Physical Review Letters</i> , 2021, 127, 191101.	7.8	3
8	Mass-ratio and Magnetic Flux Dependence of Modulated Accretion from Circumbinary Disks. <i>Astrophysical Journal</i> , 2021, 922, 175.	4.5	19
9	Bubble wall velocity from holography. <i>Physical Review D</i> , 2021, 104, .	4.7	27
10	Hyperbolicity of general relativity in Bondi-like gauges. <i>Physical Review D</i> , 2020, 102, .	4.7	11
11	Prospects for fundamental physics with LISA. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	2.0	198
12	Dynamical bar-mode instability in spinning bosonic stars. <i>Physical Review D</i> , 2020, 102, .	4.7	35
13	Synchronized gravitational atoms from mergers of bosonic stars. <i>Physical Review D</i> , 2020, 102, .	4.7	26
14	Collective Scalarization or Tachyonization: When Averaging Fails. <i>Physical Review Letters</i> , 2020, 124, 221104.	7.8	8
15	Dynamics of phase separation from holography. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	23
16	Towards spacetime entanglement entropy for interacting theories. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	20
17	Physics of black hole binaries: Geodesics, relaxation modes, and energy extraction. <i>Physical Review D</i> , 2019, 100, .	4.7	17
18	Dynamical friction in slab geometries and accretion discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 5424-5435.	4.4	11

#	ARTICLE	IF	CITATIONS
19	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	4.0	451
20	Strong cosmic censorship: The nonlinear story. <i>Physical Review D</i> , 2019, 99, .	4.7	38
21	Nonlinear Dynamics of Spinning Bosonic Stars: Formation and Stability. <i>Physical Review Letters</i> , 2019, 123, 221101.	7.8	82
22	Black hole fusion in the extreme mass ratio limit. <i>Physical Review D</i> , 2018, 97, .	4.7	15
23	Quasi-periodic Behavior of Mini-disks in Binary Black Holes Approaching Merger. <i>Astrophysical Journal Letters</i> , 2018, 853, L17.	8.3	65
24	Paths to equilibrium in non-conformal collisions. <i>EPJ Web of Conferences</i> , 2018, 175, 07030.	0.3	0
25	Holographic Collisions across a Phase Transition. <i>Physical Review Letters</i> , 2018, 121, 261601.	7.8	53
26	Black hole binaries: Ergoregions, photon surfaces, wave scattering, and quasinormal modes. <i>Physical Review D</i> , 2018, 98, .	4.7	21
27	Holographic collisions in non-conformal theories. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	36
28	Lensing and dynamics of ultracompact bosonic stars. <i>Physical Review D</i> , 2017, 96, .	4.7	73
29	Paths to equilibrium in non-conformal collisions. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	40
30	Phase transitions, inhomogeneous horizons and second-order hydrodynamics. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	41
31	Spacetime dynamics of spinning particles: Exact electromagnetic analogies. <i>Physical Review D</i> , 2016, 93, .	4.7	25
32	Inspiraling black-hole binary spacetimes: Challenges in transitioning from analytical to numerical techniques. <i>Physical Review D</i> , 2016, 93, .	4.7	2
33	Thermodynamics, transport and relaxation in non-conformal theories. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	56
34	DYNAMICS OF CHARGED BLACK HOLES. , 2015, , .		1
35	Nonlinear interactions between black holes and Proca fields. <i>Classical and Quantum Gravity</i> , 2015, 32, 234003.	4.0	68
36	Testing general relativity with present and future astrophysical observations. <i>Classical and Quantum Gravity</i> , 2015, 32, 243001.	4.0	943

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37	Resolving the relative influence of strong field spacetime dynamics and MHD on circumbinary disk physics. Physical Review D, 2015, 91, .	4.7	20
38	Testing the nonlinear stability of Kerr-Newman black holes. Physical Review D, 2014, 90, .	4.7	27
39	Higher dimensional numerical relativity: Code comparison. Physical Review D, 2014, 90, .	4.7	10
40	Collisions of oppositely charged black holes. Physical Review D, 2014, 89, .	4.7	36
41	Dynamic fisheye grids for binary black hole simulations. Classical and Quantum Gravity, 2014, 31, 065013.	4.0	18
42	Black Hole Collisions in Asymptotically de Sitter Spacetimes. Springer Proceedings in Physics, 2014, , 247-254.	0.2	0
43	AN INTRODUCTION TO THE EINSTEIN TOOLKIT. International Journal of Modern Physics A, 2013, 28, 1340014.	1.5	55
44	Mathisson's helical motions demystified. , 2012, , .		4
45	Dynamics of black holes in de Sitter spacetimes. Physical Review D, 2012, 85, .	4.7	19
46	NR/HEP: roadmap for the future. Classical and Quantum Gravity, 2012, 29, 244001.	4.0	50
47	BLACK HOLES IN A BOX. , 2012, , .		0
48	Collisions of charged black holes. Physical Review D, 2012, 85, .	4.7	49
49	Mathisson's helical motions for a spinning particle: Are they unphysical?. Physical Review D, 2012, 85, .	4.7	52
50	Higher-dimensional puncture initial data. Physical Review D, 2011, 84, .	4.7	15
51	Simulations of black holes in compactified spacetimes. Journal of Physics: Conference Series, 2011, 314, 012103.	0.4	2
52	Numerical Relativity in D -dimensional space-times: Collisions of unequal mass black holes. Journal of Physics: Conference Series, 2011, 314, 012104.	0.4	2
53	Mass inflation in a D -dimensional Reissner-Nordström black hole: A hierarchy of particle accelerators?. Physical Review D, 2011, 84, .	4.7	10
54	Head-on collisions of unequal mass black holes in $D=5$ dimensions. Physical Review D, 2011, 83, .	4.7	32

#	ARTICLE	IF	CITATIONS
55	Numerical relativity in higher dimensions. Journal of Physics: Conference Series, 2010, 229, 012074.	0.4	2
56	Black holes in a box. Journal of Physics: Conference Series, 2010, 229, 012072.	0.4	5
57	Black holes in a box: Toward the numerical evolution of black holes in AdS space-times. Physical Review D, 2010, 82, .	4.7	35
58	Numerical relativity for D dimensional space-times: Head-on collisions of black holes and gravitational wave extraction. Physical Review D, 2010, 82, .	4.7	51
59	Numerical relativity for D dimensional axially symmetric space-times: Formalism and code tests. Physical Review D, 2010, 81, .	4.7	51
60	A Double Myers-Perry Black Hole: an Inverse Scattering Construction. , 2009, , .		1
61	A double Myers-Perry black hole in five dimensions. Journal of High Energy Physics, 2008, 2008, 009-009.	4.7	12