

Carlos Lousto

List of Publications by Year in descending order

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131
papers

7,659
citations

47006

47
h-index

53230

85
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134
all docs

134
docs citations

134
times ranked

2506
citing authors

#	ARTICLE	IF	CITATIONS
1	Eccentricity estimate for black hole mergers with numerical relativity simulations. <i>Nature Astronomy</i> , 2022, 6, 344-349.	10.1	89
2	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	6.6	20
3	Fourth RIT binary black hole simulations catalog: Extension to eccentric orbits. <i>Physical Review D</i> , 2022, 105, .	4.7	24
4	Numerical-relativity validation of effective-one-body waveforms in the intermediate-mass-ratio regime. <i>Physical Review D</i> , 2022, 105, .	4.7	11
5	Measuring the Hubble Constant with GW190521 as an Eccentric black hole Merger and Its Potential Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2021, 908, L34.	8.3	16
6	PSR J0437-4715: The Argentine Institute of Radioastronomy 2019â€“2020 Observational Campaign. <i>Astrophysical Journal</i> , 2021, 908, 158.	4.5	5
7	Adapted gauge to small mass ratio binary black hole evolutions. <i>Physical Review D</i> , 2021, 103, .	4.7	8
8	Local and approximate classification of spacetimes in the transverse frames. <i>Physical Review D</i> , 2021, 104, .	4.7	0
9	Vela pulsar: single pulses analysis with machine learning techniques. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 5790-5808.	4.4	1
10	Adapted gauge to a quasilocal measure of the black holes recoil. <i>Physical Review D</i> , 2020, 102, .	4.7	5
11	Exploring the Small Mass Ratio Binary Black Hole Merger via Zenoâ€™s Dichotomy Approach. <i>Physical Review Letters</i> , 2020, 125, 191102.	7.8	25
12	Upgraded antennas for pulsar observations in the Argentine Institute of Radio astronomy. <i>Astronomy and Astrophysics</i> , 2020, 633, A84.	5.1	10
13	Third RIT binary black hole simulations catalog. <i>Physical Review D</i> , 2020, 102, .	4.7	32
14	Application of the third RIT binary black hole simulations catalog to parameter estimation of gravitational-wave signals from the LIGO-Virgo O1 and O2 observational runs. <i>Physical Review D</i> , 2020, 102, .	4.7	7
15	Second RIT binary black hole simulations catalog and its application to gravitational waves parameter estimation. <i>Physical Review D</i> , 2019, 100, .	4.7	50
16	Gravitational wave beacons. <i>Physical Review D</i> , 2019, 99, .	4.7	12
17	Kicking gravitational wave detectors with recoiling black holes. <i>Physical Review D</i> , 2019, 100, .	4.7	19
18	On the properties of the massive binary black hole merger GW170729. <i>Physical Review D</i> , 2019, 100, .	4.7	82

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19	Hangup effect in unequal mass binary black hole mergers and further studies of their gravitational radiation and remnant properties. <i>Physical Review D</i> , 2018, 97, .	4.7	35
20	Evolutions of unequal mass, highly spinning black hole binaries. <i>Physical Review D</i> , 2018, 97, .	4.7	8
21	Puncture initial data for black-hole binaries with high spins and high boosts. <i>Physical Review D</i> , 2017, 95, .	4.7	26
22	Modeling the Black Hole Merger of QSO 3C 186. <i>Astrophysical Journal Letters</i> , 2017, 841, L28.	8.3	11
23	Remnant of binary black-hole mergers: New simulations and peak luminosity studies. <i>Physical Review D</i> , 2017, 95, .	4.7	71
24	Nonspinning binary black hole merger scenario revisited. <i>Physical Review D</i> , 2017, 96, .	4.7	21
25	Evolutions of nearly maximally spinning black hole binaries using the moving puncture approach. <i>Physical Review D</i> , 2017, 96, .	4.7	15
26	The RIT binary black hole simulations catalog. <i>Classical and Quantum Gravity</i> , 2017, 34, 224001.	4.0	67
27	Post-Newtonian quasicircular initial orbits for numerical relativity. <i>Classical and Quantum Gravity</i> , 2017, 34, 145011.	4.0	22
28	Spin flips in generic black hole binaries. <i>Physical Review D</i> , 2016, 93, .	4.7	42
29	Unstable flip-flopping spinning binary black holes. <i>Physical Review D</i> , 2016, 93, .	4.7	27
30	Modeling the source of GW150914 with targeted numerical-relativity simulations. <i>Classical and Quantum Gravity</i> , 2016, 33, 244002.	4.0	67
31	High energy collisions of black holes numerically revisited. <i>Physical Review D</i> , 2016, 94, .	4.7	23
32	Perturbative extraction of gravitational waveforms generated with numerical relativity. <i>Physical Review D</i> , 2015, 91, .	4.7	44
33	Modeling the remnant mass, spin, and recoil from unequal-mass, precessing black-hole binaries: The intermediate mass ratio regime. <i>Physical Review D</i> , 2015, 92, .	4.7	43
34	Flip-Flopping Binary Black Holes. <i>Physical Review Letters</i> , 2015, 114, 141101.	7.8	36
35	Where angular momentum goes in a precessing black-hole binary. <i>Physical Review D</i> , 2014, 89, .	4.7	15
36	Black hole binary remnant mass and spin: A new phenomenological formula. <i>Physical Review D</i> , 2014, 89, .	4.7	40

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37	Remnant mass, spin, and recoil from spin aligned black-hole binaries. <i>Physical Review D</i> , 2014, 90, .	4.7	119
38	Addendum to "The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binaries"™. <i>Classical and Quantum Gravity</i> , 2013, 30, 199401.	4.0	28
39	Error-analysis and comparison to analytical models of numerical waveforms produced by the NRAR Collaboration. <i>Classical and Quantum Gravity</i> , 2013, 31, 025012.	4.0	123
40	Exploring the outer limits of numerical relativity. <i>Physical Review D</i> , 2013, 88, .	4.7	22
41	Nonlinear gravitational recoil from the mergers of precessing black-hole binaries. <i>Physical Review D</i> , 2013, 87, .	4.7	61
42	The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binaries. <i>Classical and Quantum Gravity</i> , 2012, 29, 124001.	4.0	106
43	Accuracy issues for numerical waveforms. <i>Physical Review D</i> , 2012, 86, .	4.7	29
44	Gravitational recoil from accretion-aligned black-hole binaries. <i>Physical Review D</i> , 2012, 85, .	4.7	126
45	NR/HEP: roadmap for the future. <i>Classical and Quantum Gravity</i> , 2012, 29, 244001.	4.0	50
46	Study of conformally flat initial data for highly spinning black holes and their early evolutions. <i>Physical Review D</i> , 2012, 85, .	4.7	15
47	Orbital Evolution of Extreme-Mass-Ratio Black-Hole Binaries with Numerical Relativity. <i>Physical Review Letters</i> , 2011, 106, 041101.	7.8	89
48	Perturbative effects of spinning black holes in the extreme mass-ratio limit. <i>Classical and Quantum Gravity</i> , 2011, 28, 134005.	4.0	5
49	Seeking for toroidal event horizons from initially stationary BH configurations. <i>Classical and Quantum Gravity</i> , 2011, 28, 145027.	4.0	10
50	Modeling gravitational recoil from black-hole binaries using numerical relativity. <i>Classical and Quantum Gravity</i> , 2011, 28, 114015.	4.0	21
51	Study of multi-black-hole and ring-singularity apparent horizons. <i>Physical Review D</i> , 2011, 84, .	4.7	4
52	Intermediate-mass-ratio black hole binaries. II. Modeling trajectories and gravitational waveforms. <i>Physical Review D</i> , 2011, 84, .	4.7	35
53	Hangup Kicks: Still Larger Recoils by Partial Spin-Orbit Alignment of Black-Hole Binaries. <i>Physical Review Letters</i> , 2011, 107, 231102.	7.8	161
54	Modeling maximum astrophysical gravitational recoil velocities. <i>Physical Review D</i> , 2011, 83, .	4.7	33

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55	Intermediate-Mass-Ratio Black-Hole Binaries: Numerical Relativity Meets Perturbation Theory. <i>Physical Review Letters</i> , 2010, 104, 211101.	7.8	50
56	Remnant masses, spins and recoils from the merger of generic black hole binaries. <i>Classical and Quantum Gravity</i> , 2010, 27, 114006.	4.0	132
57	Advances in simulations of generic black-hole binaries. <i>Classical and Quantum Gravity</i> , 2010, 27, 084034.	4.0	13
58	Intermediate-mass-ratio black hole binaries: Intertwining numerical and perturbative techniques. <i>Physical Review D</i> , 2010, 82, .	4.7	67
59	Statistical studies of spinning black-hole binaries. <i>Physical Review D</i> , 2010, 81, .	4.7	45
60	Regular second-order perturbations of binary black holes in the extreme mass ratio regime. <i>Classical and Quantum Gravity</i> , 2009, 26, 015007.	4.0	10
61	Testing gravitational-wave searches with numerical relativity waveforms: results from the first Numerical INjection Analysis (NINJA) project. <i>Classical and Quantum Gravity</i> , 2009, 26, 165008.	4.0	110
62	Status of NINJA: the Numerical INjection Analysis project. <i>Classical and Quantum Gravity</i> , 2009, 26, 114008.	4.0	39
63	Comparison of numerical and post-Newtonian waveforms for generic precessing black-hole binaries. <i>Physical Review D</i> , 2009, 79, .	4.7	96
64	Algebraic classification of numerical spacetimes and black-hole-binary remnants. <i>Physical Review D</i> , 2009, 79, .	4.7	24
65	Modeling gravitational recoil from precessing highly spinning unequal-mass black-hole binaries. <i>Physical Review D</i> , 2009, 79, .	4.7	76
66	Extra-large remnant recoil velocities and spins from near-extremal-Bowen-York-spin black-hole binaries. <i>Physical Review D</i> , 2008, 78, .	4.7	76
67	Close encounters of three black holes. <i>Physical Review D</i> , 2008, 77, .	4.7	36
68	Further insight into gravitational recoil. <i>Physical Review D</i> , 2008, 77, .	4.7	101
69	Three-body equations of motion in successive post-Newtonian approximations. <i>Classical and Quantum Gravity</i> , 2008, 25, 195019.	4.0	38
70	A new method to integrate (2+1)-wave equations with Dirac's delta functions as sources. <i>Classical and Quantum Gravity</i> , 2008, 25, 145018.	4.0	11
71	Foundations of multiple-black-hole evolutions. <i>Physical Review D</i> , 2008, 77, .	4.7	79
72	Large Merger Recoils and Spin Flips from Generic Black Hole Binaries. <i>Astrophysical Journal</i> , 2007, 659, L5-L8.	4.5	416

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73	Maximum Gravitational Recoil. <i>Physical Review Letters</i> , 2007, 98, 231102.	7.8	371
74	Quasilocal linear momentum in black-hole binaries. <i>Physical Review D</i> , 2007, 76, .	4.7	34
75	Practical formula for the radiated angular momentum. <i>Physical Review D</i> , 2007, 76, .	4.7	54
76	Spin flips and precession in black-hole-binary mergers. <i>Physical Review D</i> , 2007, 75, .	4.7	159
77	Spin-orbit interactions in black-hole binaries. <i>Physical Review D</i> , 2006, 74, .	4.7	105
78	Relativistic three-body effects in black hole coalescence. <i>Physical Review D</i> , 2006, 74, .	4.7	16
79	Last orbit of binary black holes. <i>Physical Review D</i> , 2006, 73, .	4.7	132
80	Spinning-black-hole binaries: The orbital hang-up. <i>Physical Review D</i> , 2006, 74, .	4.7	274
81	Accurate Evolutions of Orbiting Black-Hole Binaries without Excision. <i>Physical Review Letters</i> , 2006, 96, 111101.	7.8	1,068
82	The Lazarus project. II. Spacelike extraction with the quasi-Kinnersley tetrad. <i>Physical Review D</i> , 2006, 73, .	4.7	45
83	Gravitational Radiation from Binary Black Holes: Advances in the Perturbative Approach. <i>Classical and Quantum Gravity</i> , 2005, 22, .	4.0	3
84	Gravitational waves from binary black holes in the extreme mass ratio regime: self-force calculations. <i>Classical and Quantum Gravity</i> , 2005, 22, S369-S374.	4.0	9
85	A time-domain fourth-order-convergent numerical algorithm to integrate black hole perturbations in the extreme-mass-ratio limit. <i>Classical and Quantum Gravity</i> , 2005, 22, S543-S568.	4.0	36
86	Reconstruction of black hole metric perturbations from Weyl curvature: II. The Regge-Wheeler gauge. <i>Classical and Quantum Gravity</i> , 2005, 22, S569-S587.	4.0	19
87	Accurate black hole evolutions by fourth-order numerical relativity. <i>Physical Review D</i> , 2005, 72, .	4.7	148
88	Numerical integration of the Teukolsky equation in the time domain. <i>Physical Review D</i> , 2005, 72, .	4.7	32
89	Perturbations of Schwarzschild black holes in the Lorenz gauge: Formulation and numerical implementation. <i>Physical Review D</i> , 2005, 72, .	4.7	80
90	Radiation content of conformally flat initial data. <i>Physical Review D</i> , 2004, 69, .	4.7	13

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91	Coalescence remnant of spinning binary black holes. <i>Physical Review D</i> , 2004, 69, .	4.7	43
92	Reconstruction of black hole metric perturbations from the Weyl curvature. <i>Physical Review D</i> , 2002, 66, .	4.7	53
93	Modeling gravitational radiation from coalescing binary black holes. <i>Physical Review D</i> , 2002, 65, .	4.7	134
94	New conformally flat initial data for spinning black holes. <i>Physical Review D</i> , 2002, 65, .	4.7	60
95	The Lazarus project: A pragmatic approach to binary black hole evolutions. <i>Physical Review D</i> , 2002, 65, .	4.7	129
96	Computing the gravitational self-force on a compact object plunging into a Schwarzschild black hole. <i>Physical Review D</i> , 2002, 66, .	4.7	71
97	Towards the solution of the relativistic gravitational radiation reaction problem for binary black holes. <i>Classical and Quantum Gravity</i> , 2001, 18, 3989-3994.	4.0	9
98	Perturbative evolution of nonlinear initial data for binary black holes: Zerilli versus Teukolsky equation. <i>Physical Review D</i> , 2001, 63, .	4.7	9
99	Plunge Waveforms from Inspiralling Binary Black Holes. <i>Physical Review Letters</i> , 2001, 87, 121103.	7.8	84
100	Gravitational waves from black hole collisions via an eclectic approach. <i>Classical and Quantum Gravity</i> , 2000, 17, L149-L156.	4.0	60
101	Nonlinear and perturbative evolution of distorted black holes: Odd-parity modes. <i>Physical Review D</i> , 2000, 62, .	4.7	27
102	Pragmatic Approach to Gravitational Radiation Reaction in Binary Black Holes. <i>Physical Review Letters</i> , 2000, 84, 5251-5254.	7.8	68
103	Second order gauge invariant gravitational perturbations of a Kerr black hole. <i>Physical Review D</i> , 1999, 59, .	4.7	148
104	Imposition of Cauchy data to the Teukolsky equation. III. The rotating case. <i>Physical Review D</i> , 1998, 58, .	4.7	19
105	Imposition of Cauchy data to the Teukolsky equation. II. Numerical comparison with the Zerilli-Moncrief approach to black hole perturbations. <i>Physical Review D</i> , 1998, 58, .	4.7	14
106	Improved initial data for black hole collisions. <i>Physical Review D</i> , 1998, 57, 1073-1083.	4.7	22
107	Imposition of Cauchy data to the Teukolsky equation. I. The nonrotating case. <i>Physical Review D</i> , 1998, 58, .	4.7	19
108	Head-on collisions of black holes: The particle limit. <i>Physical Review D</i> , 1997, 55, 2124-2138.	4.7	70

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109	Understanding initial data for black hole collisions. <i>Physical Review D</i> , 1997, 56, 6439-6457.	4.7	65
110	Regularization of the Teukolsky equation for rotating black holes. <i>Physical Review D</i> , 1997, 56, 6363-6369.	4.7	7
111	Exact gravitational shock wave solution of higher order theories. <i>Physical Review D</i> , 1996, 54, 3854-3860.	4.7	11
112	Effective two-dimensional description from critical phenomena in black holes. <i>General Relativity and Gravitation</i> , 1995, 27, 121-127.	2.0	10
113	Entanglement entropy in curved spacetimes with event horizons. <i>Physical Review D</i> , 1995, 52, 4512-4517.	4.7	48
114	Emergence of an effective two-dimensional quantum description from the study of critical phenomena in black holes. <i>Physical Review D</i> , 1995, 51, 1733-1740.	4.7	68
115	Perturbative metric of charged black holes in quadratic gravity. <i>Physical Review D</i> , 1995, 51, 6810-6815.	4.7	8
116	GUTs in curved spacetime: Running gravitational constants, Newtonian potential, and the quantum-corrected gravitational equations. <i>Physical Review D</i> , 1995, 52, 2202-2213.	4.7	25
117	Recovery of information from black hole radiation by considering stimulated emission. <i>Physical Review D</i> , 1994, 49, 1922-1928.	4.7	9
118	Charged black holes in quadratic theories. <i>Physical Review D</i> , 1994, 49, 5278-5285.	4.7	13
119	Perturbative method to solve fourth-order gravity field equations. <i>Physical Review D</i> , 1994, 49, 5188-5193.	4.7	27
120	Quantization of the Metric Created by Ultrarelativistic Particles. , 1994, , 193-199.		0
121	Critical Phenomena in Black Holes and the Emergence of a Two Dimensional Quantum Description. , 1994, , 183-192.		0
122	Topological defects in gravitational theories with nonlinear Lagrangians. <i>Physical Review D</i> , 1993, 47, 3303-3311.	4.7	11
123	On Brans-Dicke Black Holes. , 1993, , 123-130.		1
124	Curved-spacetime metric generated by Planckian energy string collisions. <i>Physical Review D</i> , 1992, 46, 4520-4525.	4.7	12
125	Classical and quantum scattering from global monopoles. <i>Classical and Quantum Gravity</i> , 1992, 9, 2417-2427.	4.0	2
126	Vacuum-polarization effects in global monopole space-times. <i>Physical Review D</i> , 1991, 43, 468-475.	4.7	49

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127	PARTICLE PRODUCTION BY THE FORMATION OF A GLOBAL MONOPOLE. International Journal of Modern Physics A, 1991, 06, 3613-3623.	1.5	8
128	Repulsive gravitational effects of global monopoles. Physical Review D, 1990, 42, 2626-2631.	4.7	142
129	Maximum mass of a Neutron star in metric theories of gravitation. General Relativity and Gravitation, 1987, 19, 637-642.	2.0	0
130	On neutron stars and gravitation. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1987, 99, 123-132.	0.2	1
131	A comment on spiral motions in projective relativity. General Relativity and Gravitation, 1985, 17, 875-878.	2.0	0