

# Isabel Cordero-Carriñán

## List of Publications by Year in descending order

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85  
papers

29,037  
citations

50276

46  
h-index

66911

78  
g-index

85  
all docs

85  
docs citations

85  
times ranked

12773  
citing authors

#	ARTICLE	IF	CITATIONS
1	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. Physical Review Letters, 2017, 119, 161101.	7.8	6,413
2	Multi-messenger Observations of a Binary Neutron Star Merger <sup>*</sup> . Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
3	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. Astrophysical Journal Letters, 2017, 848, L13.	8.3	2,314
4	GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo during the First and Second Observing Runs. Physical Review X, 2019, 9, .	8.9	2,022
5	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101.	7.8	1,600
6	GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101.	7.8	1,473
7	GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo during the First Half of the Third Observing Run. Physical Review X, 2021, 11, .	8.9	1,097
8	GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. Astrophysical Journal Letters, 2020, 896, L44.	8.3	1,090
9	GW190425: Observation of a Compact Binary Coalescence with Total Mass $\hat{A}^{\sim} 3.4 M_{\odot}$ . Astrophysical Journal Letters, 2020, 892, L3.	8.3	1,049
10	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35.	8.3	968
11	GW190521: A Binary Black Hole Merger with a Total Mass of $150 M_{\odot}$ . Physical Review Letters, 2020, 125, 101102.	7.8	856
12	Properties of the Binary Neutron Star Merger GW170817. Physical Review X, 2019, 9, .	8.9	728
13	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. Astrophysical Journal Letters, 2019, 882, L24.	8.3	566
14	Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. Physical Review D, 2019, 100, .	4.7	470
15	Black holes, gravitational waves and fundamental physics: a roadmap. Classical and Quantum Gravity, 2019, 36, 143001.	4.0	451
16	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	26.7	447
17	Properties and Astrophysical Implications of the $150 M_{\odot}$ Binary Black Hole Merger GW190521. Astrophysical Journal Letters, 2020, 900, L13.	8.3	406
18	GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. Physical Review D, 2020, 102, .	4.7	394

#	ARTICLE	IF	CITATIONS
19	Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , 2019, 123, 011102.	7.8	370
20	Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog. <i>Physical Review D</i> , 2021, 103, .	4.7	338
21	Search for the isotropic stochastic background using data from Advanced LIGOâ€™s second observing run. <i>Physical Review D</i> , 2019, 100, .	4.7	200
22	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L16.	8.3	189
23	A guide to LIGOâ€™Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 2020, 37, 055002.	4.0	188
24	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018, 120, 091101.	7.8	166
25	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	8.3	156
26	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019, 871, L13.	8.3	145
27	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 909, 218.	4.5	144
28	Search for Substellar Mass Ultracompact Binaries in Advanced LIGOâ€™s Second Observing Run. <i>Physical Review Letters</i> , 2019, 123, 161102.	7.8	119
29	Improved constrained scheme for the Einstein equations: An approach to the uniqueness issue. <i>Physical Review D</i> , 2009, 79, .	4.7	112
30	Model comparison from LIGOâ€™Virgo data on GW170817â€™s binary components and consequences for the merger remnant. <i>Classical and Quantum Gravity</i> , 2020, 37, 045006.	4.0	109
31	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019, 875, 160.	4.5	97
32	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015â€“2017 LIGO Data. <i>Astrophysical Journal</i> , 2019, 879, 10.	4.5	88
33	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102.	7.8	85
34	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGOâ€™s First Observing Run. <i>Physical Review Letters</i> , 2018, 121, 231103.	7.8	77
35	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L40.	8.3	73
36	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. <i>Astrophysical Journal</i> , 2019, 875, 161.	4.5	71

#	ARTICLE	IF	CITATIONS
37	Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. <i>Physical Review D</i> , 2020, 101, .	4.7	69
38	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , 2020, 902, L21.	8.3	65
39	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. <i>Astrophysical Journal</i> , 2019, 875, 122.	4.5	61
40	Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. <i>Physical Review D</i> , 2019, 99, .	4.7	60
41	Numerical relativity in spherical polar coordinates: Evolution calculations with the BSSN formulation. <i>Physical Review D</i> , 2013, 87, .	4.7	57
42	BSSN equations in spherical coordinates without regularization: Vacuum and nonvacuum spherically symmetric spacetimes. <i>Physical Review D</i> , 2012, 85, .	4.7	54
43	All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2019, 100, .	4.7	54
44	Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network. <i>Physical Review D</i> , 2019, 100, .	4.7	52
45	Mathematical issues in a fully constrained formulation of the Einstein equations. <i>Physical Review D</i> , 2008, 77, .	4.7	51
46	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , 2017, 96, .	4.7	47
47	Full band all-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2018, 97, .	4.7	46
48	Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model. <i>Physical Review D</i> , 2019, 100, .	4.7	46
49	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ ( $t$ ) $T_j$ $ETQq1$ $1$ $0.784314$ $rgBT$ / $Over$	4.0	41
50	Constraining the $p$ -Mode Tidal Instability with GW170817. <i>Physical Review Letters</i> , 2019, 122, 061104.	7.8	36
51	General parametrization of Majorana neutrino mass models. <i>Physical Review D</i> , 2020, 101, .	4.7	36
52	Scheduled Relaxation Jacobi method: Improvements and applications. <i>Journal of Computational Physics</i> , 2016, 321, 369-413.	3.8	33
53	On the convexity of relativistic hydrodynamics. <i>Classical and Quantum Gravity</i> , 2013, 30, 057002.	4.0	32
54	A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. <i>Astrophysical Journal</i> , 2019, 871, 90.	4.5	30

#	ARTICLE	IF	CITATIONS
55	Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal</i> , 2019, 886, 75.	4.5	29
56	Master Majorana neutrino mass parametrization. <i>Physical Review D</i> , 2019, 99, .	4.7	26
57	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. <i>Astrophysical Journal</i> , 2019, 874, 163.	4.5	26
58	A Spatial-Temporal Model for the Evolution of the COVID-19 Pandemic in Spain Including Mobility. <i>Mathematics</i> , 2020, 8, 1677.	2.2	26
59	On numerical relativistic hydrodynamics and barotropic equations of state. <i>Classical and Quantum Gravity</i> , 2012, 29, 157001.	4.0	22
60	All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. <i>Physical Review D</i> , 2019, 99, .	4.7	22
61	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO's Virgo Run O3a. <i>Astrophysical Journal</i> , 2021, 915, 86.	4.5	20
62	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
63	Gravitational waves in dynamical spacetimes with matter content in the fully constrained formulation. <i>Physical Review D</i> , 2012, 85, .	4.7	16
64	Trapping horizons as inner boundary conditions for black hole spacetimes. <i>Physical Review D</i> , 2008, 77, .	4.7	15
65	On the equivalence between the Scheduled Relaxation Jacobi method and Richardson's non-stationary method. <i>Journal of Computational Physics</i> , 2017, 332, 446-460.	3.8	13
66	Fully relativistic non-linear cosmological evolution in spherical symmetry using the BSSN formalism. <i>Physical Review D</i> , 2015, 91, .	4.7	12
67	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. <i>Astrophysical Journal</i> , 2020, 893, 100.	4.5	12
68	Status of Advanced Virgo. <i>EPJ Web of Conferences</i> , 2018, 182, 02003.	0.3	9
69	On the convexity of relativistic ideal magnetohydrodynamics. <i>Classical and Quantum Gravity</i> , 2015, 32, 095007.	4.0	8
70	Nonlinear cosmological spherical collapse of quintessence. <i>Physical Review D</i> , 2016, 93, .	4.7	8
71	Dynamical spacetimes and gravitational radiation in a Fully Constrained Formulation. <i>Journal of Physics: Conference Series</i> , 2010, 228, 012055.	0.4	6
72	Maximal slicings in spherical symmetry: Local existence and construction. <i>Journal of Mathematical Physics</i> , 2011, 52, .	1.1	6

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73	Excision scheme for black holes in constrained evolution formulations: Spherically symmetric case. Physical Review D, 2014, 90, .	4.7	3
74	Partially implicit high order Runge-Kutta methods for wave-like equations in spherical-type coordinates. , 2012, , 211-217.		3
75	Minimally implicit Runge-Kutta methods for Resistive Relativistic MHD. Journal of Physics: Conference Series, 2016, 719, 012015.	0.4	2
76	Partially Implicit Runge-Kutta Methods for Wave-Like Equations. SEMA SIMAI Springer Series, 2014, , 267-278.	0.7	2
77	Analysis of the Characteristics in the Meudon Constrained Evolution Scheme. Journal of Physics: Conference Series, 2007, 66, 012046.	0.4	1
78	Gravitational waves in Fully Constrained Formulation in a dynamical spacetime with matter content. Journal of Physics: Conference Series, 2011, 314, 012078.	0.4	1
79	Characteristic structure of the resistive relativistic magnetohydrodynamic equations. , 2012, , .		1
80	BSSN equations in spherical coordinates without regularization: spherically symmetric spacetimes. Journal of Physics: Conference Series, 2013, 454, 012002.	0.4	1
81	Spherically Symmetric solutions on a cosmological dynamical background with BSSN equations. Journal of Physics: Conference Series, 2015, 600, 012062.	0.4	1
82	On the local existence of maximal slicings in spherically symmetric spacetimes. Journal of Physics: Conference Series, 2010, 229, 012029.	0.4	0
83	Excision technique in constrained formulations of Einstein equations: collapse scenario. Journal of Physics: Conference Series, 2015, 600, 012059.	0.4	0
84	UNIQUENESS ISSUE IN A CONSTRAINED SCHEME FOR THE EINSTEIN EQUATIONS. , 2012, , .		0
85	BSSN Equations in Spherical Coordinates Without Regularization. Springer Proceedings in Mathematics and Statistics, 2014, , 205-209.	0.2	0