Nicolas Sanchis-Gual

List of Publications by Year in descending order

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#	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 [*] . 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 MassÂâ^1⁄4Â3.4 M _⊙ . 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 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow> <mml:mn>150 </mml:mn> <mml:mtext>  </mml:mtext> <mml:mtext>  stretchy="false"> ⊙ </mml:mtext></mml:mrow> . Physical Review</mml:math 	ml m text>	< næætimsub>
12	Properties of the Binary Neutron Star Merger GW170817. Physical Review X, 2019, 9, .	8.9	728
13	A gravitational-wave standard siren measurement of the Hubble constant. Nature, 2017, 551, 85-88.	27.8	674
14	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
15	Population Properties of Compact Objects from the Second LIGO–Virgo Gravitational-Wave Transient Catalog. Astrophysical Journal Letters, 2021, 913, L7.	8.3	514
16	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
17	Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. Astrophysical Journal Letters, 2021, 915, L5	8.3	453
18	Black holes, gravitational waves and fundamental physics: a roadmap. Classical and Quantum Gravity, 2019, 36, 143001.	4.0	451

NICOLAS SANCHIS-GUAL

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19	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
20	Properties and Astrophysical Implications of the 150 M _⊙ Binary Black Hole Merger GW190521. Astrophysical Journal Letters, 2020, 900, L13.	8.3	406
21	GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. Physical Review D, 2020, 102, .	4.7	394
22	Tests of General Relativity with GW170817. Physical Review Letters, 2019, 123, 011102.	7.8	370
23	Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog. Physical Review D, 2021, 103, .	4.7	338
24	Open data from the first and second observing runs of Advanced LIGO and Advanced Virgo. SoftwareX, 2021, 13, 100658.	2.6	275
25	Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. Physical Review Letters, 2019, 123, 231108.	7.8	254
26	Spontaneous Scalarization of Charged Black Holes. Physical Review Letters, 2018, 121, 101102.	7.8	213
27	Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. Physical Review D, 2019, 100, .	4.7	200
28	Upper limits on the isotropic gravitational-wave background from Advanced LIGO and Advanced Virgo's third observing run. Physical Review D, 2021, 104, .	4.7	192
29	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 851, L16.	8.3	189
30	A guide to LIGO–Virgo detector noise and extraction of transient gravitational-wave signals. Classical and Quantum Gravity, 2020, 37, 055002.	4.0	188
31	First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary–Black-hole Merger GW170814. Astrophysical Journal Letters, 2019, 876, L7.	8.3	179
32	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. Physical Review Letters, 2018, 120, 091101.	7.8	166
33	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated withÂGW170817. Astrophysical Journal Letters, 2017, 850, L39.	8.3	156
34	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. Astrophysical Journal Letters, 2019, 871, L13.	8.3	145
35	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218.	4.5	144
36	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 850, L35.	8.3	135

#	Article	IF	CITATIONS
37	Explosion and Final State of an Unstable Reissner-Nordström Black Hole. Physical Review Letters, 2016, 116, 141101.	7.8	133
38	GW190521 as a Merger of Proca Stars: A Potential New Vector Boson of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>8.7</mml:mn><mml:mo>×</mml:mo><mml:msup><mml:mrow><mr Physical Review Letters, 2021, 126, 081101.</mr </mml:mrow></mml:msup></mml:mrow></mml:math 	ıl:mn>10<	/mmi:mn> </td
39	Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. Physical Review Letters, 2019, 123, 161102.	7.8	119
40	Spontaneous scalarisation of charged black holes: coupling dependence and dynamical features. Classical and Quantum Gravity, 2019, 36, 134002.	4.0	114
41	Model comparison from LIGO–Virgo data on GW170817's binary components and consequences for the merger remnant. Classical and Quantum Gravity, 2020, 37, 045006.	4.0	109
42	All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. Physical Review D, 2019, 100, .	4.7	102
43	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal, 2019, 875, 160.	4.5	97
44	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. Astrophysical Journal, 2019, 879, 10.	4.5	88
45	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO–Virgo Observing Run. Physical Review Letters, 2021, 126, 241102.	7.8	87
46	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. Physical Review Letters, 2018, 120, 201102.	7.8	85
47	The imitation game: Proca stars that can mimic the Schwarzschild shadow. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 051.	5.4	83
48	Nonlinear Dynamics of Spinning Bosonic Stars: Formation and Stability. Physical Review Letters, 2019, 123, 221101.	7.8	82
49	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. Physical Review Letters, 2018, 121, 231103.	7.8	77
50	Lensing and dynamics of ultracompact bosonic stars. Physical Review D, 2017, 96, .	4.7	73
51	On the Progenitor of Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 850, L40.	8.3	73
52	Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. Astrophysical Journal, 2019, 883, 149.	4.5	72
53	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. Astrophysical Journal, 2019, 875, 161.	4.5	71
54	Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. Physical Review D, 2020, 101, .	4.7	69

NICOLAS SANCHIS-GUAL

53Carvitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical8.36.554Search for anisotropic gravitational-wave background using data from Advanced LIGO and Advanced4.76257Numerical evolutions of spherical Processtars. Physical Review D, 2021, 104, .4.76158Search for anisotropic gravitational Waves from 15 Supernova Remnants and Fomalhaut b with4.66159Narrow-band search for gravitational Waves from 15 Supernova Remnants and Fomalhaut b with4.66150Narrow-band search for gravitational Waves from Narow pulsars using the second LIGO observing4.76060Num.Physical Review D, 2019, 190,636461Search for hort gravitational waves from known pulsars using the second LIGO observing4.76462Search for hort gravitational waves using data from Advanced LIGO act Marco4.76263Directional limits on persistent gravitational waves using data from Advanced LIGO 26 ^{Ems} first two4.76264Observing runs. Physical Review D, 2019, 100,63646465Directional limits on persistent gravitational waves using data from Advanced LIGO 26 ^{Ems} first two4.76266Observing runs. Physical Review D, 2017, 100,63646467Observing runs. Physical Review D, 2017, 100,646468Search for Internation of a Reisener. Nordstr Atm March Metal Review D, 2019, 100,646469Optical Review D, 2019, 100,646464	#	Article	IF	CITATIONS
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57Numerical evolutions of spherical Processtars. Physical Review D, 2017, 954.76158Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced UGO (supprolession). Astrophysical Journal, 2019, 875, 122.4.76059Numerical Review D, 2019, 99606160All-sky search for gravitational-waves from known pulsars using the second UGO observing m. Physical Review D, 2019, 1004.75461Search for intermediate mass black hole binaries in the free and second observing runs of the doserving runs. Physical Review D, 2019, 1004.75262Directional limits on persistent gravitational waves using data from Advanced UGO36CMs first two 	56	Search for anisotropic gravitational-wave backgrounds using data from Advanced LIGO and Advanced Virgo's first three observing runs. Physical Review D, 2021, 104, .	4.7	62
68Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with4.56469Narrow-band search for gravitational waves from known pulsars using the second LICO observing4.76060All-sky search for short gravitational-wave bursts in the second Advanced UGO and Advanced Virgo4.75461Search for ins bort gravitational-wave bursts in the second observing runs of the4.75262Directional limits on persistent gravitational waves using data from Advanced LICO det ^{Fee} first two4.75263Head-on collisions and orbital mergers of Proca stars. Physical Review D, 2019, 99.4.75164Charged black holes with axionic-type couplings: Classes of solutions and dynamical scalarization.4.75264Bynamical formation of a Reissner-NordstrAfm black hole with scalar hair in a cavity. Physical Review D, 2019, 100,4.74865Its t narrow-band search for continuous gravitational waves from known pulsars in advanced4.74666First narrow-band search for continuous gravitational waves from known pulsars in advanced4.74667Search for gravitational waves from Scorplus X-1 in the second Advanced LICO data. Physical Review D, 2017, 56,4668Search for gravitational waves from Scorplus X-1 in the second Advanced LICO data. Physical Review D, 2018, 46,4769Confusing Head-On Collisions with Processing Intermediate-Mass Binary Black Hole Mergers. Physical7.84669Confusing Head-On Collisions with Processing Intermediate-Mass Binary Black Hole Mergers. Physical4	57	Numerical evolutions of spherical Proca stars. Physical Review D, 2017, 95, .	4.7	61
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All-sky search in early O3 LIGO data for continuous gravitational-wave signals from unknown neutron stars in binary systems. Physical Review D, 2021, 103, .	70	Dynamical formation of Proca stars and quasistationary solitonic objects. Physical Review D, 2018, 98,	4.7	43
	71	All-sky search in early O3 LIGO data for continuous gravitational-wave signals from unknown neutron stars in binary systems. Physical Review D, 2021, 103, .	4.7	43

Calibration of advanced Virgo and reconstruction of the gravitational wave signal $\langle i \rangle h \langle i \rangle (\langle i \rangle t \langle i \rangle)$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf

#	Article	IF	CITATIONS
73	Constraining the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mi>p</mml:mi></mml:math> -Mode– <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi> -Mode Tidal Instability with GW170817. Physical Review Letters, 2019, 122, 061104.</mml:math 	7.8	36
74	Quantum Backaction on Kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. Physical Review Letters, 2020, 125, 131101.	7.8	35
75	Dynamical bar-mode instability in spinning bosonic stars. Physical Review D, 2020, 102, .	4.7	35
76	Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. Astrophysical Journal, 2019, 870, 134.	4.5	32
77	Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910. Astrophysical Journal Letters, 2021, 913, L27.	8.3	32
78	A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. Astrophysical Journal, 2019, 871, 90.	4.5	30
79	Quasistationary solutions of self-gravitating scalar fields around black holes. Physical Review D, 2015, 91, .	4.7	29
80	Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. Astrophysical Journal, 2019, 886, 75.	4.5	29
81	Dynamical formation and stability of fermion-boson stars. Physical Review D, 2020, 102, .	4.7	29
82	Neutron star collapse and gravitational waves with a non-convex equation of state. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4980-5008.	4.4	28
83	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. Astrophysical Journal, 2019, 874, 163.	4.5	26
84	Synchronized gravitational atoms from mergers of bosonic stars. Physical Review D, 2020, 102, .	4.7	26
85	Quasistationary solutions of self-gravitating scalar fields around collapsing stars. Physical Review D, 2015, 92, .	4.7	23
86	All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. Physical Review D, 2019, 99, .	4.7	22
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NICOLAS SANCHIS-GUAL

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