

# Nicolas Sanchis-Gual

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/179622/publications.pdf>

Version: 2024-02-01

111  
papers

33,267  
citations

22153

59  
h-index

22166

113  
g-index

115  
all docs

115  
docs citations

115  
times ranked

13163  
citing authors



#	ARTICLE	IF	CITATIONS
19	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3.	26.7	447
20	Properties and Astrophysical Implications of the 150 $M_{\odot}$ Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020, 900, L13.	8.3	406
21	GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. <i>Physical Review D</i> , 2020, 102, .	4.7	394
22	Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , 2019, 123, 011102.	7.8	370
23	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
24	Open data from the first and second observing runs of Advanced LIGO and Advanced Virgo. <i>SoftwareX</i> , 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. <i>Physical Review Letters</i> , 2019, 123, 231108.	7.8	254
26	Spontaneous Scalarization of Charged Black Holes. <i>Physical Review Letters</i> , 2018, 121, 101102.	7.8	213
27	Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. <i>Physical Review D</i> , 2019, 100, .	4.7	200
28	Upper limits on the isotropic gravitational-wave background from Advanced LIGO and Advanced Virgo's third observing run. <i>Physical Review D</i> , 2021, 104, .	4.7	192
29	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
30	A guide to LIGO's Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 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. <i>Astrophysical Journal Letters</i> , 2019, 876, L7.	8.3	179
32	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018, 120, 091101.	7.8	166
33	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	8.3	156
34	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
35	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
36	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017, 850, L35.	8.3	135



#	ARTICLE	IF	CITATIONS
55	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , 2020, 902, L21.	8.3	65
56	Search for anisotropic gravitational-wave backgrounds using data from Advanced LIGO and Advanced Virgo's first three observing runs. <i>Physical Review D</i> , 2021, 104, .	4.7	62
57	Numerical evolutions of spherical Proca stars. <i>Physical Review D</i> , 2017, 95, .	4.7	61
58	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
59	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
60	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
61	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
62	Directional limits on persistent gravitational waves using data from Advanced LIGO's first two observing runs. <i>Physical Review D</i> , 2019, 100, .	4.7	52
63	Head-on collisions and orbital mergers of Proca stars. <i>Physical Review D</i> , 2019, 99, .	4.7	51
64	Charged black holes with axionic-type couplings: Classes of solutions and dynamical scalarization. <i>Physical Review D</i> , 2019, 100, .	4.7	50
65	Dynamical formation of a Reissner-Nordström black hole with scalar hair in a cavity. <i>Physical Review D</i> , 2016, 94, .	4.7	48
66	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
67	Full band all-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2018, 97, .	4.7	46
68	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
69	Confusing Head-On Collisions with Precessing Intermediate-Mass Binary Black Hole Mergers. <i>Physical Review Letters</i> , 2021, 126, 201101.	7.8	46
70	Dynamical formation of Proca stars and quasistationary solitonic objects. <i>Physical Review D</i> , 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. <i>Physical Review D</i> , 2021, 103, .	4.7	43
72	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ ( $h(t)$ ) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	4.0	41

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73	Constraining the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Mode Tidal Instability with GW170817. <i>Physical Review Letters</i> , 2019, 122, 061104.	7.8	36
74	Quantum Backaction on Kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. <i>Physical Review Letters</i> , 2020, 125, 131101.	7.8	35
75	Dynamical bar-mode instability in spinning bosonic stars. <i>Physical Review D</i> , 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. <i>Astrophysical Journal</i> , 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. <i>Astrophysical Journal Letters</i> , 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. <i>Astrophysical Journal</i> , 2019, 871, 90.	4.5	30
79	Quasistationary solutions of self-gravitating scalar fields around black holes. <i>Physical Review D</i> , 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. <i>Astrophysical Journal</i> , 2019, 886, 75.	4.5	29
81	Dynamical formation and stability of fermion-boson stars. <i>Physical Review D</i> , 2020, 102, .	4.7	29
82	Neutron star collapse and gravitational waves with a non-convex equation of state. <i>Monthly Notices of the Royal Astronomical Society</i> , 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. <i>Astrophysical Journal</i> , 2019, 874, 163.	4.5	26
84	Synchronized gravitational atoms from mergers of bosonic stars. <i>Physical Review D</i> , 2020, 102, .	4.7	26
85	Quasistationary solutions of self-gravitating scalar fields around collapsing stars. <i>Physical Review D</i> , 2015, 92, .	4.7	23
86	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
87	Ultralight bosons for strong gravity applications from simple Standard Model extensions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 047.	5.4	22
88	Multifield, Multifrequency Bosonic Stars and a Stabilization Mechanism. <i>Physical Review Letters</i> , 2021, 126, 241105.	7.8	21
89	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
90	Fully covariant and conformal formulation of the Z4 system in a reference-metric approach: Comparison with the BSSN formulation in spherical symmetry. <i>Physical Review D</i> , 2014, 89, .	4.7	19

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91	Quasistationary solutions of scalar fields around collapsing self-interacting boson stars. <i>Physical Review D</i> , 2017, 96, .	4.7	19
92	Dynamical $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mo} \rangle \hat{a}, \langle \text{mml:mo} \rangle \langle \text{mml:math} \rangle$ -boson stars: Generic stability and evidence for nonspherical solutions. <i>Physical Review D</i> , 2020, 101, .	4.7	17
93	Can fermion-boson stars reconcile multimessenger observations of compact stars?. <i>Physical Review D</i> , 2022, 105, .	4.7	17
94	Dynamical formation of a hairy black hole in a cavity from the decay of unstable solitons. <i>Classical and Quantum Gravity</i> , 2017, 34, 165001.	4.0	16
95	Dynamically and thermodynamically stable black holes in Einstein-Maxwell-dilaton gravity. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	16
96	A stabilization mechanism for excited fermion-boson stars. <i>Classical and Quantum Gravity</i> , 2021, 38, 194001.	4.0	16
97	Gravitational waves from binary black hole mergers surrounded by scalar field clouds: Numerical simulations and observational implications. <i>Physical Review D</i> , 2021, 103, .	4.7	15
98	Boson stars in Palatini $f(R)$ gravity. <i>Classical and Quantum Gravity</i> , 2021, 38, 194003.	4.0	14
99	Self-interactions can stabilize excited boson stars. <i>Classical and Quantum Gravity</i> , 2022, 39, 064001.	4.0	14
100	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
101	Head-on collisions of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mo} \rangle \hat{a}, \langle \text{mml:mo} \rangle \langle \text{mml:math} \rangle$ -boson stars. <i>Physical Review D</i> , 2022, 105, .	4.7	11
102	Completion of the universal $\langle i \rangle \langle i \rangle \hat{a} \langle i \rangle Q \langle i \rangle$ relations in compact stars including the mass. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 470, L54-L58.	3.3	9
103	Status of Advanced Virgo. <i>EPJ Web of Conferences</i> , 2018, 182, 02003.	0.3	9
104	The advanced Virgo longitudinal control system for the O2 observing run. <i>Astroparticle Physics</i> , 2020, 116, 102386.	4.3	9
105	Advanced Virgo Status. <i>Journal of Physics: Conference Series</i> , 2020, 1342, 012010.	0.4	9
106	Quasistationary solutions of scalar fields around accreting black holes. <i>Physical Review D</i> , 2016, 94, .	4.7	8
107	Spontaneous Creation of Circularly Polarized Photons in Chiral Astrophysical Systems. <i>Physical Review Letters</i> , 2020, 124, 211301.	7.8	7
108	Ultralight bosonic dark matter in white dwarfs and potential observational consequences. <i>Physical Review D</i> , 2022, 105, .	4.7	5

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109	Cosmological analogies in the search for new physics in high-energy collisions. Physical Review D, 2020, 102, .	4.7	2
110	Estimate of the gravitational-wave background from the observed cosmological distribution of quasars. Physical Review D, 2021, 104, .	4.7	2
111	Comparison between the fCCZ4 and BSSN formulations of Einstein equations in spherical polar coordinates. Journal of Physics: Conference Series, 2015, 600, 012058.	0.4	0