

# Thomas A Callister

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

27,686  
citations

46918

47  
h-index

95083

68  
g-index

69  
all docs

69  
docs citations

69  
times ranked

12632  
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo. <i>Astronomy and Astrophysics</i> , 2022, 659, A84.	2.1	32
2	Gravitational-wave geodesy: Defining false alarm probabilities with respect to correlated noise. <i>Physical Review D</i> , 2022, 105, .	1.6	2
3	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGOâ€“Virgo Run O3b. <i>Astrophysical Journal</i> , 2022, 928, 186.	1.6	15
4	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	1.8	20
5	The Binary Black Hole Spin Distribution Likely Broadens with Redshift. <i>Astrophysical Journal Letters</i> , 2022, 932, L19.	3.0	24
6	Narrowband Searches for Continuous and Long-duration Transient Gravitational Waves from Known Pulsars in the LIGO-Virgo Third Observing Run. <i>Astrophysical Journal</i> , 2022, 932, 133.	1.6	33
7	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.	1.6	144
8	Implications for First-Order Cosmological Phase Transitions from the Third LIGO-Virgo Observing Run. <i>Physical Review Letters</i> , 2021, 126, 151301.	2.9	40
9	Joint constraints on the field-cluster mixing fraction, common envelope efficiency, and globular cluster radii from a population of binary hole mergers via deep learning. <i>Physical Review D</i> , 2021, 103, .	1.6	72
10	LIGO detector characterization in the second and third observing runs. <i>Classical and Quantum Gravity</i> , 2021, 38, 135014.	1.5	128
11	When Are LIGO/Virgoâ€™s Big Black Hole Mergers?. <i>Astrophysical Journal</i> , 2021, 912, 98.	1.6	48
12	Population Properties of Compact Objects from the Second LIGOâ€“Virgo Gravitational-Wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2021, 913, L7.	3.0	514
13	Observation of Gravitational Waves from Two Neutron Starâ€“Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021, 915, L5.	3.0	453
14	Constraints on Cosmic Strings Using Data from the Third Advanced LIGOâ€“Virgo Observing Run. <i>Physical Review Letters</i> , 2021, 126, 241102.	2.9	87
15	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGOâ€“Virgo Run O3a. <i>Astrophysical Journal</i> , 2021, 915, 86.	1.6	20
16	State of the Field: Binary Black Hole Natal Kicks and Prospects for Isolated Field Formation after GWTC-2. <i>Astrophysical Journal</i> , 2021, 920, 157.	1.6	24
17	Who Ordered That? Unequal-mass Binary Black Hole Mergers Have Larger Effective Spins. <i>Astrophysical Journal Letters</i> , 2021, 922, L5.	3.0	62
18	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3.	8.2	447

#	ARTICLE	IF	CITATIONS
19	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.	1.6	12
20	GW190521: A Binary Black Hole Merger with a Total Mass of $150 M_{\odot}$ . <i>Physical Review Letters</i> , 2020, 125, 101102.	3.0	1,090
21	GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. <i>Astrophysical Journal Letters</i> , 2020, 896, L44.	1.6	68
22	The Low Effective Spin of Binary Black Holes and Implications for Individual Gravitational-wave Events. <i>Astrophysical Journal</i> , 2020, 895, 128.	3.0	1,049
23	GW190425: Observation of a Compact Binary Coalescence with Total Mass $3.4 M_{\odot}$ . <i>Astrophysical Journal Letters</i> , 2020, 892, L3.	1.5	109
24	Model comparison from LIGO/Virgo data on GW170817's binary components and consequences for the merger remnant. <i>Classical and Quantum Gravity</i> , 2020, 37, 045006.	1.5	188
25	A guide to LIGO/Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 2020, 37, 055002.	3.0	406
26	Properties and Astrophysical Implications of the $150 M_{\odot}$ Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020, 900, L13.	3.0	65
27	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , 2020, 902, L21.	1.6	56
28	First search for a stochastic gravitational-wave background from ultralight bosons. <i>Physical Review D</i> , 2019, 99, .	1.6	88
29	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. <i>Astrophysical Journal</i> , 2019, 879, 10.	2.9	370
30	Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , 2019, 123, 011102.	2.9	119
31	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019, 123, 161102.	3.0	22
32	A First Search for Prompt Radio Emission from a Gravitational-wave Event. <i>Astrophysical Journal Letters</i> , 2019, 877, L39.	3.0	566
33	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal Letters</i> , 2019, 882, L24.	1.6	30
34	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.	1.6	61
35	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. <i>Astrophysical Journal</i> , 2019, 875, 122.	1.6	97
36	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019, 875, 160.		

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37	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.	3.0	179
38	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. <i>Astrophysical Journal</i> , 2019, 875, 161.	1.6	71
39	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO’s Second Observing Run. <i>Astrophysical Journal</i> , 2019, 874, 163.	1.6	26
40	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 “ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Mode Tidal Instability with GW170817. <i>Physical Review Letters</i> , 2019, 122, 061104.	2.9	36
41	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.	1.6	29
42	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018, 120, 091101.	2.9	166
43	All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. <i>Classical and Quantum Gravity</i> , 2018, 35, 065009.	1.5	18
44	First Search for Nontensorial Gravitational Waves from Known Pulsars. <i>Physical Review Letters</i> , 2018, 120, 031104.	2.9	68
45	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018, 21, 3.	8.2	808
46	Gravitational-wave Geodesy: A New Tool for Validating Detection of the Stochastic Gravitational-wave Background. <i>Astrophysical Journal Letters</i> , 2018, 869, L28.	3.0	8
47	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO’s First Observing Run. <i>Physical Review Letters</i> , 2018, 121, 231103.	2.9	77
48	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018, 121, 161101.	2.9	1,473
49	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102.	2.9	85
50	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
51	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017, 34, 104002.	1.5	98
52	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO’s First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121101.	2.9	194
53	Directional Limits on Persistent Gravitational Waves from Advanced LIGO’s First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121102.	2.9	84
54	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017, 839, 12.	1.6	131

#	ARTICLE	IF	CITATIONS
55	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017, 119, 141101.	2.9	1,600
56	Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-based Cross-correlation Search in Advanced LIGO Data. <i>Astrophysical Journal</i> , 2017, 847, 47.	1.6	46
57	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017, 119, 161101.	2.9	6,413
58	Multi-messenger Observations of a Binary Neutron Star Merger <sup>*</sup> . <i>Astrophysical Journal Letters</i> , 2017, 848, L12.	3.0	2,805
59	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017, 848, L13.	3.0	2,314
60	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. <i>Astrophysical Journal</i> , 2017, 841, 89.	1.6	52
61	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L16.	3.0	189
62	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	3.0	156
63	Polarization-Based Tests of Gravity with the Stochastic Gravitational-Wave Background. <i>Physical Review X</i> , 2017, 7, .	2.8	65
64	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017, 118, 221101.	2.9	1,987
65	Observing gravitational waves with a single detector. <i>Classical and Quantum Gravity</i> , 2017, 34, 155007.	1.5	19
66	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L40.	3.0	73
67	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017, 851, L35.	3.0	968
68	GRAVITATIONAL-WAVE CONSTRAINTS ON THE PROGENITORS OF FAST RADIO BURSTS. <i>Astrophysical Journal Letters</i> , 2016, 825, L12.	3.0	20
69	Limits of Astrophysics with Gravitational-Wave Backgrounds. <i>Physical Review X</i> , 2016, 6, .	2.8	29