

Greg Ashton

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104 papers	34,091 citations	54 h-index	113 g-index
113 ext. papers	43,768 ext. citations	6.3 avg, IF	5.21 L-index

#	Paper	IF	Citations
104	Search for continuous gravitational waves from 20 accreting millisecond x-ray pulsars in O3 LIGO data. <i>Physical Review D</i> , 2022 , 105,	4.9	9
103	Low-efficiency long gamma-ray bursts: a case study with AT2020blt. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 512, 1391-1399	4.3	0
102	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO-Virgo Run O3b. <i>Astrophysical Journal</i> , 2022 , 928, 186	4.7	1
101	Searches for Continuous Gravitational Waves from Young Supernova Remnants in the Early Third Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021 , 921, 80	4.7	10
100	Prospects of Gravitational Wave Detections from Common Envelope Evolution with LISA. <i>Astrophysical Journal</i> , 2021 , 919, 128	4.7	0
99	All-sky search for continuous gravitational waves from isolated neutron stars in the early O3 LIGO data. <i>Physical Review D</i> , 2021 , 104,	4.9	15
98	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	4.7	46
97	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,	4.9	15
96	PyFstat: a Python package for continuous gravitational-wave data analysis. <i>Journal of Open Source Software</i> , 2021 , 6, 3000	5.2	6
95	Population Properties of Compact Objects from the Second LIGO-Virgo Gravitational-Wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2021 , 913, L7	7.9	194
94	Observation of Gravitational Waves from Two Neutron Star-Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021 , 915, L5	7.9	142
93	Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog. <i>Physical Review D</i> , 2021 , 103,	4.9	81
92	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO-Virgo Observing Run. <i>Physical Review Letters</i> , 2021 , 126, 241102	7.4	21
91	GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo during the First Half of the Third Observing Run. <i>Physical Review X</i> , 2021 , 11,	9.1	311
90	Standard-siren Cosmology Using Gravitational Waves from Binary Black Holes. <i>Astrophysical Journal</i> , 2021 , 908, 215	4.7	8
89	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO-Virgo Run O3a. <i>Astrophysical Journal</i> , 2021 , 915, 86	4.7	6
88	Identification of a Local Sample of Gamma-Ray Bursts Consistent with a Magnetar Giant Flare Origin. <i>Astrophysical Journal Letters</i> , 2021 , 907, L28	7.9	12

87	Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGO/Virgo's Third Observing Run. <i>Astrophysical Journal</i> , 2021 , 923, 14	4.7	4
86	Neutron Star Extreme Matter Observatory: A kilohertz-band gravitational-wave detector in the global network. <i>Publications of the Astronomical Society of Australia</i> , 2020 , 37,	5.5	47
85	Bayesian inference for compact binary coalescences with bilby: validation and application to the first LIGO/Virgo gravitational-wave transient catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 499, 3295-3319	4.3	62
84	Multiwaveform inference of gravitational waves. <i>Physical Review D</i> , 2020 , 101,	4.9	13
83	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	7.9	57 ¹
82	GW190425: Observation of a Compact Binary Coalescence with Total Mass $\sim 3.4 M_{\odot}$. <i>Astrophysical Journal Letters</i> , 2020 , 892, L3	7.9	59 ¹
81	Gravitational waves or deconfined quarks: What causes the premature collapse of neutron stars born in short gamma-ray bursts?. <i>Physical Review D</i> , 2020 , 101,	4.9	24
80	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	3.3	69
79	A guide to LIGO/Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 2020 , 37, 055002	3.3	78
78	Properties and Astrophysical Implications of the $150 M_{\odot}$ Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020 , 900, L13	7.9	207
77	Characterizing Astrophysical Binary Neutron Stars with Gravitational Waves. <i>Astrophysical Journal Letters</i> , 2020 , 902, L12	7.9	5
76	Interpreting the X-ray afterglows of gamma-ray bursts with radiative losses and millisecond magnetars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 499, 5986-5992	4.3	6
75	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020 , 23, 3	32.5	144
74	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	4.7	9
73	The astrophysical odds of GW151216. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 498, 1905-1910	4.9	5
72	GW190521: A Binary Black Hole Merger with a Total Mass of $150 M_{\odot}$. <i>Physical Review Letters</i> , 2020 , 125, 101102	7.4	42 ⁰
71	GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. <i>Physical Review D</i> , 2020 , 102,	4.9	212
70	Massively parallel Bayesian inference for transient gravitational-wave astronomy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 498, 4492-4502	4.3	39

69	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	7.9	381
68	Neutron star merger remnants: Braking indices, gravitational waves, and the equation of state 2019 ,		3
67	Rotational evolution of the Vela pulsar during the 2016 glitch. <i>Nature Astronomy</i> , 2019 , 3, 1143-1148	12.1	33
66	GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo during the First and Second Observing Runs. <i>Physical Review X</i> , 2019 , 9,	9.1	1169
65	X-Ray Afterglows of Short Gamma-Ray Bursts: Magnetar or Fireball?. <i>Astrophysical Journal</i> , 2019 , 872, 114	4.7	14
64	Bilby: A User-friendly Bayesian Inference Library for Gravitational-wave Astronomy. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 241, 27	8	217
63	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	4.7	22
62	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. <i>Astrophysical Journal</i> , 2019 , 875, 122	4.7	45
61	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. <i>Astrophysical Journal</i> , 2019 , 879, 10	4.7	63
60	All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. <i>Physical Review D</i> , 2019 , 100,	4.9	81
59	Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , 2019 , 123, 011102	7.4	204
58	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019 , 123, 161102	7.4	68
57	Constraining the p-Mode-g-Mode Tidal Instability with GW170817. <i>Physical Review Letters</i> , 2019 , 122, 061104	7.4	22
56	Gravitational wave detection without boot straps: A Bayesian approach. <i>Physical Review D</i> , 2019 , 100,	4.9	8
55	Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. <i>Physical Review D</i> , 2019 , 100,	4.9	258
54	Properties of the Binary Neutron Star Merger GW170817. <i>Physical Review X</i> , 2019 , 9,	9.1	423
53	Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run. <i>Classical and Quantum Gravity</i> , 2018 , 35, 065010	3.3	62
52	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018 , 120, 091101	7.4	120

51	First Search for Nontensorial Gravitational Waves from Known Pulsars. <i>Physical Review Letters</i> , 2018 , 120, 031104	7.4	50
50	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018 , 21, 3	32.5	543
49	Coincident Detection Significance in Multimessenger Astronomy. <i>Astrophysical Journal</i> , 2018 , 860, 6	4.7	17
48	X-ray guided gravitational-wave search for binary neutron star merger remnants. <i>Physical Review D</i> , 2018 , 98,	4.9	22
47	Faster search for long gravitational-wave transients: GPU implementation of the transient \$newcommand{\mathcal{F}}{\boldsymbol{F}}\$-statistic. <i>Classical and Quantum Gravity</i> , 2018 , 35, 205003	3.3	8
46	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018 , 121, 231103	7.4	49
45	Hierarchical multistage MCMC follow-up of continuous gravitational wave candidates. <i>Physical Review D</i> , 2018 , 97,	4.9	19
44	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018 , 121, 161101	7.4	867
43	A semicoherent glitch-robust continuous-gravitational-wave search method. <i>Physical Review D</i> , 2018 , 98,	4.9	10
42	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102	7.4	60
41	Exploring the sensitivity of next generation gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2017 , 34, 044001	3.3	454
40	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002	3.3	74
39	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017 , 839, 12	4.7	107
38	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017 , 119, 141101	7.4	1270
37	Statistical characterization of pulsar glitches and their potential impact on searches for continuous gravitational waves. <i>Physical Review D</i> , 2017 , 96,	4.9	29
36	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	4.7	35
35	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017 , 119, 161101	7.4	4272
34	Multi-messenger Observations of a Binary Neutron Star Merger. <i>Astrophysical Journal Letters</i> , 2017 , 848, L12	7.9	1935

33	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017 , 848, L13	7.9	1614
32	On the free-precession candidate PSR B1828-11: Evidence for increasing deformation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , stx060	4.3	6
31	Advances in our understanding of the free precession candidate PSR B1828-11. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 307-308	0.1	
30	All-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2017 , 96,	4.9	54
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	7.9	133
28	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L39	7.9	127
27	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017 , 118, 221101	7.4	1609
26	Implications of the Occurrence of Glitches in Pulsar Free Precession Candidates. <i>Physical Review Letters</i> , 2017 , 118, 261101	7.4	7
25	Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. <i>Physical Review D</i> , 2017 , 95,	4.9	47
24	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , 2017 , 96,	4.9	39
23	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. <i>Physical Review D</i> , 2017 , 96,	4.9	54
22	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L40	7.9	50
21	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017 , 851, L35	7.9	809
20	Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. <i>Physical Review D</i> , 2016 , 94,	4.9	76
19	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016 , 93,	4.9	253
18	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102	7.4	188
17	Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , 2016 , 93,	4.9	94
16	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016 , 116, 221101	7.4	837

15	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102	7.4	515
14	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2016 , 116, 241103	7.4	2136
13	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. <i>Physical Review X</i> , 2016 , 6,	9.1	723
12	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
11	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016 , 116, 061102	7.4	6108
10	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3.3	155
9	SUPPLEMENT: THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914 (2016, ApJL, 833, L1). <i>Astrophysical Journal, Supplement Series</i> , 2016 , 227, 14	8	52
8	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. <i>Physical Review X</i> , 2016 , 6,	9.1	89
7	Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project. <i>Physical Review D</i> , 2016 , 94,	4.9	29
6	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 833, L1	7.9	209
5	Effect of timing noise on targeted and narrow-band coherent searches for continuous gravitational waves from pulsars. <i>Physical Review D</i> , 2015 , 91,	4.9	18
4	Advanced LIGO. <i>Classical and Quantum Gravity</i> , 2015 , 32, 074001	3.3	1098
3	Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. <i>Physical Review D</i> , 2015 , 91,	4.9	32
2	Current observations are insufficient to confidently associate the binary black hole merger GW190521 with AGN J124942.3+344929. <i>Classical and Quantum Gravity</i> ,	3.3	7
1	Bilby-MCMC: an MCMC sampler for gravitational-wave inference. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	3