

Greg Ashton

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

52,461
citations

19608

61
h-index

24179

110
g-index

113
all docs

113
docs citations

113
times ranked

16393
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for continuous gravitational waves from 20 accreting millisecond x-ray pulsars in O3 LIGO data. <i>Physical Review D</i> , 2022, 105, .	1.6	31
2	An updated glitch rate law inferred from radio pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 3304-3319.	1.6	8
3	Low-efficiency long gamma-ray bursts: a case study with AT2020blt. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 1391-1399.	1.6	3
4	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.	1.6	15
5	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
6	Nested sampling for physical scientists. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	11.8	40
7	All-sky, all-frequency directional search for persistent gravitational waves from Advanced LIGO’s and Advanced Virgo’s first three observing runs. <i>Physical Review D</i> , 2022, 105, .	1.6	18
8	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
9	The use of hypermodels to understand binary neutron star collisions. <i>Nature Astronomy</i> , 2022, 6, 961-967.	4.2	5
10	Parameterised population models of transient non-Gaussian noise in the LIGO gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , 2022, 39, 175004.	1.5	14
11	Standard-siren Cosmology Using Gravitational Waves from Binary Black Holes. <i>Astrophysical Journal</i> , 2021, 908, 215.	1.6	28
12	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
13	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, .	1.6	43
14	PyFstat: a Python package for continuous gravitational-wave data analysis. <i>Journal of Open Source Software</i> , 2021, 6, 3000.	2.0	16
15	Population Properties of Compact Objects from the Second LIGO–Virgo Gravitational-Wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2021, 913, L7.	3.0	514
16	Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021, 915, L5.	3.0	453
17	Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog. <i>Physical Review D</i> , 2021, 103, .	1.6	338
18	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO–Virgo Observing Run. <i>Physical Review Letters</i> , 2021, 126, 241102.	2.9	87

#	ARTICLE	IF	CITATIONS
19	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, .	2.8	1,097
20	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
21	<scp>Bilby</scp>-MCMC: an MCMC sampler for gravitational-wave inference. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2037-2051.	1.6	25
22	Identification of a Local Sample of Gamma-Ray Bursts Consistent with a Magnetar Giant Flare Origin. <i>Astrophysical Journal Letters</i> , 2021, 907, L28.	3.0	33
23	Optimized localization for gravitational waves from merging binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3957-3965.	1.6	2
24	Prospects of Gravitational Wave Detections from Common Envelope Evolution with LISA. <i>Astrophysical Journal</i> , 2021, 919, 128.	1.6	12
25	All-sky search for continuous gravitational waves from isolated neutron stars in the early O3 LIGO data. <i>Physical Review D</i> , 2021, 104, .	1.6	42
26	Current observations are insufficient to confidently associate the binary black hole merger GW190521 with AGN J124942.3 + 344929. <i>Classical and Quantum Gravity</i> , 2021, 38, 235004.	1.5	36
27	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.	1.6	39
28	Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGOâ€“Virgoâ€™s Third Observing Run. <i>Astrophysical Journal</i> , 2021, 923, 14.	1.6	59
29	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
30	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
31	The astrophysical odds of GW151216. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1905-1910.	1.6	10
32	GW190521: A Binary Black Hole Merger with a Total Mass of $150 M_{\odot}$. <i>Physical Review Letters</i> , 2020, 125, 101102.	1.6	836
33	GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. <i>Physical Review D</i> , 2020, 102, .	1.6	394
34	Massively parallel Bayesian inference for transient gravitational-wave astronomy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4492-4502.	1.6	105
35	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, .	1.3	114
36	Bayesian inference for compact binary coalescences with <scp>bilby</scp>: validation and application to the first LIGOâ€“Virgo gravitational-wave transient catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 3295-3319.	1.6	213

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37	Multiwaveform inference of gravitational waves. <i>Physical Review D</i> , 2020, 101, .	1.6	22
38	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.	3.0	1,090
39	GW190425: Observation of a Compact Binary Coalescence with Total Mass $\hat{A}^{\sim} 3.4 M_{\text{sun}}$. <i>Astrophysical Journal Letters</i> , 2020, 892, L3.	3.0	1,049
40	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, .	1.6	32
41	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.	1.5	109
42	A guide to LIGOâ€“Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 2020, 37, 055002.	1.5	188
43	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.	1.6	14
44	Properties and Astrophysical Implications of the $150 M_{\text{sun}}$ Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020, 900, L13.	3.0	406
45	Characterizing Astrophysical Binary Neutron Stars with Gravitational Waves. <i>Astrophysical Journal Letters</i> , 2020, 902, L12.	3.0	9
46	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015â€“2017 LIGO Data. <i>Astrophysical Journal</i> , 2019, 879, 10.	1.6	88
47	All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. <i>Physical Review D</i> , 2019, 100, .	1.6	102
48	Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , 2019, 123, 011102.	2.9	370
49	Search for Substellar Mass Ultracompact Binaries in Advanced LIGOâ€™s Second Observing Run. <i>Physical Review Letters</i> , 2019, 123, 161102.	2.9	119
50	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.	3.0	566
51	Neutron star merger remnants: Braking indices, gravitational waves, and the equation of state. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	3
52	Rotational evolution of the Vela pulsar during the 2016 glitch. <i>Nature Astronomy</i> , 2019, 3, 1143-1148.	4.2	58
53	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, .	2.8	2,022
54	X-Ray Afterglows of Short Gamma-Ray Bursts: Magnetar or Fireball?. <i>Astrophysical Journal</i> , 2019, 872, 114.	1.6	19

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55	Bilby: A User-friendly Bayesian Inference Library for Gravitational-wave Astronomy. <i>Astrophysical Journal, Supplement Series</i> , 2019, 241, 27.	3.0	526
56	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	30
57	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO [*] . <i>Astrophysical Journal</i> , 2019, 875, 122.	1.6	61
58	Constraining the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Mode $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Mode Tidal Instability with GW170817. <i>Physical Review Letters</i> , 2019, 122, 061104.	2.9	36
59	Gravitational wave detection without boot straps: A Bayesian approach. <i>Physical Review D</i> , 2019, 100, .	1.6	16
60	Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. <i>Physical Review D</i> , 2019, 100, .	1.6	470
61	Properties of the Binary Neutron Star Merger GW170817. <i>Physical Review X</i> , 2019, 9, .	2.8	728
62	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.	1.5	94
63	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018, 120, 091101.	2.9	166
64	First Search for Nontensorial Gravitational Waves from Known Pulsars. <i>Physical Review Letters</i> , 2018, 120, 031104.	2.9	68
65	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
66	Faster search for long gravitational-wave transients: GPU implementation of the transient $\int \mathcal{F} \text{oldsymbol} \{ F \} \text{-statistic}$. <i>Classical and Quantum Gravity</i> , 2018, 35, 205003.	1.5	14
67	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018, 121, 231103.	2.9	77
68	Hierarchical multistage MCMC follow-up of continuous gravitational wave candidates. <i>Physical Review D</i> , 2018, 97, .	1.6	31
69	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018, 121, 161101.	2.9	1,473
70	A semicoherent glitch-robust continuous-gravitational-wave search method. <i>Physical Review D</i> , 2018, 98, .	1.6	14
71	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102.	2.9	85
72	Coincident Detection Significance in Multimessenger Astronomy. <i>Astrophysical Journal</i> , 2018, 860, 6.	1.6	27

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73	X-ray guided gravitational-wave search for binary neutron star merger remnants. <i>Physical Review D</i> , 2018, 98, .	1.6	28
74	Exploring the sensitivity of next generation gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2017, 34, 044001.	1.5	735
75	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017, 34, 104002.	1.5	98
76	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017, 839, 12.	1.6	131
77	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
78	Statistical characterization of pulsar glitches and their potential impact on searches for continuous gravitational waves. <i>Physical Review D</i> , 2017, 96, .	1.6	41
79	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
80	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017, 119, 161101.	2.9	6,413
81	Multi-messenger Observations of a Binary Neutron Star Merger [*] . <i>Astrophysical Journal Letters</i> , 2017, 848, L12.	3.0	2,805
82	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
83	All-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2017, 96, .	1.6	64
84	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
85	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	3.0	156
86	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
87	Implications of the Occurrence of Glitches in Pulsar Free Precession Candidates. <i>Physical Review Letters</i> , 2017, 118, 261101.	2.9	12
88	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, .	1.6	59
89	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , 2017, 96, .	1.6	47
90	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. <i>Physical Review D</i> , 2017, 96, .	1.6	60

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91	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L40.	3.0	73
92	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017, 851, L35.	3.0	968
93	Advances in our understanding of the free precession candidate PSR B1828-11. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 307-308.	0.0	0
94	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016, 33, 134001.	1.5	225
95	SUPPLEMENT: "THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914" (2016, <i>ApJL</i> , 833, L1). <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 14.	3.0	63
96	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. <i>Physical Review X</i> , 2016, 6, .	2.8	106
97	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, .	1.6	31
98	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016, 833, L1.	3.0	230
99	Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. <i>Physical Review D</i> , 2016, 94, .	1.6	102
100	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016, 93, .	1.6	315
101	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016, 116, 131102.	2.9	269
102	Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , 2016, 93, .	1.6	119
103	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016, 116, 221101.	2.9	1,224
104	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016, 116, 241102.	2.9	673
105	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2016, 116, 241103.	2.9	2,701
106	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. <i>Physical Review X</i> , 2016, 6, .	2.8	898
107	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016, 818, L22.	3.0	633
108	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016, 116, 061102.	2.9	8,753

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109	Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. <i>Physical Review D</i> , 2015, 91, .	1.6	37
110	Effect of timing noise on targeted and narrow-band coherent searches for continuous gravitational waves from pulsars. <i>Physical Review D</i> , 2015, 91, .	1.6	20
111	Advanced LIGO. <i>Classical and Quantum Gravity</i> , 2015, 32, 074001.	1.5	1,929
112	On the free-precession candidate PSR B1828-11: Evidence for increasing deformation. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stx060.	1.6	10