Greg Ashton

List of Publications by Year in descending order

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| | | 19608 | 24179 |
|----------|----------------|--------------|----------------|
| 112 | 52,461 | 61 | 110 |
| papers | citations | h-index | g-index |
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| 113 | 113 | 113 | 16393 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|--|--------------------|-------------------------------|
| 1 | Observation of Gravitational Waves from a Binary Black Hole Merger. Physical Review Letters, 2016, 116, 061102. | 2.9 | 8,753 |
| 2 | GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. Physical Review Letters, 2017, 119, 161101. | 2.9 | 6,413 |
| 3 | Multi-messenger Observations of a Binary Neutron Star Merger [*] . Astrophysical Journal Letters, 2017, 848, L12. | 3.0 | 2,805 |
| 4 | GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103. | 2.9 | 2,701 |
| 5 | Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. Astrophysical Journal Letters, 2017, 848, L13. | 3.0 | 2,314 |
| 6 | 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, . | 2.8 | 2,022 |
| 7 | GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. Physical Review Letters, 2017, 118, 221101. | 2.9 | 1,987 |
| 8 | Advanced LIGO. Classical and Quantum Gravity, 2015, 32, 074001. | 1.5 | 1,929 |
| 9 | GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101. | 2.9 | 1,600 |
| 10 | GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101. | 2.9 | 1,473 |
| 11 | Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101. | 2.9 | 1,224 |
| 12 | GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo during the First Half of the Third Observing Run. Physical Review X, 2021, 11, . | 2.8 | 1,097 |
| 13 | 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. | 3.0 | 1,090 |
| 14 | GW190425: Observation of a Compact Binary Coalescence with Total MassÂâ^1⁄4Â3.4 M _⊙ . Astrophysical Journal Letters, 2020, 892, L3. | 3.0 | 1,049 |
| 15 | GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35. | 3.0 | 968 |
| 16 | Binary Black Hole Mergers in the First Advanced LIGO Observing Run. Physical Review X, 2016, 6, . | 2.8 | 898 |
| 17 | GW190521: A Binary Black Hole Werger 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> a€‰ stretchy="false"> ⊙ </mml:mtext></mml:mrow> . Physical Review</mml:math | nml ææ ext> | <naatmsub< td=""></naatmsub<> |
| 18 | Letters, 2020, 125, 101102. Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced | 8.2 | 808 |

Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.

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| 19 | Exploring the sensitivity of next generation gravitational wave detectors. Classical and Quantum Gravity, 2017, 34, 044001. | 1.5 | 735 |
| 20 | Properties of the Binary Neutron Star Merger GW170817. Physical Review X, 2019, 9, . | 2.8 | 728 |
| 21 | Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102. | 2.9 | 673 |
| 22 | ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. Astrophysical Journal Letters, 2016, 818, L22. | 3.0 | 633 |
| 23 | 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. | 3.0 | 566 |
| 24 | Bilby: A User-friendly Bayesian Inference Library for Gravitational-wave Astronomy. Astrophysical Journal, Supplement Series, 2019, 241, 27. | 3.0 | 526 |
| 25 | Population Properties of Compact Objects from the Second LIGO–Virgo Gravitational-Wave Transient Catalog. Astrophysical Journal Letters, 2021, 913, L7. | 3.0 | 514 |
| 26 | Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. Physical Review D, 2019, 100, . | 1.6 | 470 |
| 27 | Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. Astrophysical Journal Letters, 2021, 915, L5. | 3.0 | 453 |
| 28 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3. | 8.2 | 447 |
| 29 | Properties and Astrophysical Implications of the 150 M _⊙ Binary Black Hole Merger GW190521. Astrophysical Journal Letters, 2020, 900, L13. | 3.0 | 406 |
| 30 | GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. Physical Review D, 2020, 102, . | 1.6 | 394 |
| 31 | Tests of General Relativity with GW170817. Physical Review Letters, 2019, 123, 011102. | 2.9 | 370 |
| 32 | Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog. Physical Review D, 2021, 103, . | 1.6 | 338 |
| 33 | GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. Physical Review D, 2016, 93, . | 1.6 | 315 |
| 34 | GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. Physical Review Letters, 2016, 116, 131102. | 2.9 | 269 |
| 35 | THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. Astrophysical Journal Letters, 2016, 833, L1. | 3.0 | 230 |
| 36 | Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001. | 1.5 | 225 |

| # | Article | IF | CITATIONS |
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| 37 | Bayesian inference for compact binary coalescences with <scp>bilby</scp> : validation and application to the first LIGO–Virgo gravitational-wave transient catalogue. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3295-3319. | 1.6 | 213 |
| 38 | Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 851, L16. | 3.0 | 189 |
| 39 | A guide to LIGO–Virgo detector noise and extraction of transient gravitational-wave signals. Classical and Quantum Gravity, 2020, 37, 055002. | 1.5 | 188 |
| 40 | GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. Physical Review Letters, 2018, 120, 091101. | 2.9 | 166 |
| 41 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated withÂGW170817. Astrophysical Journal Letters, 2017, 850, L39. | 3.0 | 156 |
| 42 | A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218. | 1.6 | 144 |
| 43 | First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. Astrophysical Journal, 2017, 839, 12. | 1.6 | 131 |
| 44 | Observing gravitational-wave transient GW150914 with minimal assumptions. Physical Review D, 2016, 93, . | 1.6 | 119 |
| 45 | Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. Physical Review Letters, 2019, 123, 161102. | 2.9 | 119 |
| 46 | Neutron Star Extreme Matter Observatory: A kilohertz-band gravitational-wave detector in the global network. Publications of the Astronomical Society of Australia, 2020, 37, . | 1.3 | 114 |
| 47 | Model comparison from LIGO–Virgo data on GW170817's binary components and consequences for the merger remnant. Classical and Quantum Gravity, 2020, 37, 045006. | 1.5 | 109 |
| 48 | Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. Physical Review X, 2016, 6, . | 2.8 | 106 |
| 49 | Massively parallel Bayesian inference for transient gravitational-wave astronomy. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4492-4502. | 1.6 | 105 |
| 50 | Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. Physical Review D, 2016, 94, . | 1.6 | 102 |
| 51 | All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. Physical Review D, 2019, 100, . | 1.6 | 102 |
| 52 | Effects of waveform model systematics on the interpretation of GW150914. Classical and Quantum Gravity, 2017, 34, 104002. | 1.5 | 98 |
| 53 | Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run. Classical and Quantum Gravity, 2018, 35, 065010. | 1.5 | 94 |
| 54 | Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. Astrophysical Journal, 2019, 879, 10. | 1.6 | 88 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Constraints on Cosmic Strings Using Data from the Third Advanced LIGO–Virgo Observing Run. Physical Review Letters, 2021, 126, 241102. | 2.9 | 87 |
| 56 | Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. Physical Review Letters, 2018, 120, 201102. | 2.9 | 85 |
| 57 | Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. Physical Review Letters, 2018, 121, 231103. | 2.9 | 77 |
| 58 | On the Progenitor of Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 850, L40. | 3.0 | 73 |
| 59 | First Search for Nontensorial Gravitational Waves from Known Pulsars. Physical Review Letters, 2018, 120, 031104. | 2.9 | 68 |
| 60 | All-sky search for periodic gravitational waves in the O1 LIGO data. Physical Review D, 2017, 96, . | 1.6 | 64 |
| 61 | SUPPLEMENT: "THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914―(2016, ApJL, 833, L1). Astrophysical Journal, Supplement Series, 2016, 227, 14. | 3.0 | 63 |
| 62 | Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO [*] . Astrophysical Journal, 2019, 875, 122. | 1.6 | 61 |
| 63 | First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. Physical Review D, 2017, 96, . | 1.6 | 60 |
| 64 | Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. Physical Review D, 2017, 95, . | 1.6 | 59 |
| 65 | Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGO–Virgo's Third Observing Run. Astrophysical Journal, 2021, 923, 14. | 1.6 | 59 |
| 66 | Rotational evolution of the Vela pulsar during the 2016 glitch. Nature Astronomy, 2019, 3, 1143-1148. | 4.2 | 58 |
| 67 | First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. Physical Review D, 2017, 96, . | 1.6 | 47 |
| 68 | Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-based Cross-correlation Search in Advanced LIGO Data. Astrophysical Journal, 2017, 847, 47. | 1.6 | 46 |
| 69 | 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, . | 1.6 | 43 |
| 70 | All-sky search for continuous gravitational waves from isolated neutron stars in the early O3 LIGO data. Physical Review D, 2021, 104, . | 1.6 | 42 |
| 71 | Statistical characterization of pulsar glitches and their potential impact on searches for continuous gravitational waves. Physical Review D, 2017, 96, . | 1.6 | 41 |
| 72 | Nested sampling for physical scientists. Nature Reviews Methods Primers, 2022, 2, . | 11.8 | 40 |

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| 73 | Searches for Continuous Gravitational Waves from Young Supernova Remnants in the Early Third Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 921, 80. | 1.6 | 39 |
| 74 | Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. Physical Review D, 2015, 91, . | 1.6 | 37 |
| 75 | 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 | 2.9 | 36 |
| 76 | Current observations are insufficient to confidently associate the binary black hole merger GW190521 with AGN J124942.3 + 344929. Classical and Quantum Gravity, 2021, 38, 235004. | 1.5 | 36 |
| 77 | Identification of a Local Sample of Gamma-Ray Bursts Consistent with a Magnetar Giant Flare Origin. Astrophysical Journal Letters, 2021, 907, L28. | 3.0 | 33 |
| 78 | Narrowband Searches for Continuous and Long-duration Transient Gravitational Waves from Known Pulsars in the LIGO-Virgo Third Observing Run. Astrophysical Journal, 2022, 932, 133. | 1.6 | 33 |
| 79 | Gravitational waves or deconfined quarks: What causes the premature collapse of neutron stars born in short gamma-ray bursts?. Physical Review D, 2020, 101, . | 1.6 | 32 |
| 80 | Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project. Physical Review D, 2016, 94, . | 1.6 | 31 |
| 81 | Hierarchical multistage MCMC follow-up of continuous gravitational wave candidates. Physical Review D, 2018, 97, . | 1.6 | 31 |
| 82 | Search for continuous gravitational waves from 20 accreting millisecond x-ray pulsars in O3 LIGO data. Physical Review D, 2022, 105, . | 1.6 | 31 |
| 83 | 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. | 1.6 | 30 |
| 84 | X-ray guided gravitational-wave search for binary neutron star merger remnants. Physical Review D, 2018, 98, . | 1.6 | 28 |
| 85 | Standard-siren Cosmology Using Gravitational Waves from Binary Black Holes. Astrophysical Journal, 2021, 908, 215. | 1.6 | 28 |
| 86 | Coincident Detection Significance in Multimessenger Astronomy. Astrophysical Journal, 2018, 860, 6. | 1.6 | 27 |
| 87 | <scp>Bilby</scp> -MCMC: an MCMC sampler for gravitational-wave inference. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2037-2051. | 1.6 | 25 |
| 88 | Multiwaveform inference of gravitational waves. Physical Review D, 2020, 101, . | 1.6 | 22 |
| 89 | Effect of timing noise on targeted and narrow-band coherent searches for continuous gravitational waves from pulsars. Physical Review D, 2015, 91, . | 1.6 | 20 |
| 90 | Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO–Virgo Run O3a. Astrophysical Journal, 2021, 915, 86. | 1.6 | 20 |

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| 91 | First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, . | 1.8 | 20 |
| 92 | X-Ray Afterglows of Short Gamma-Ray Bursts: Magnetar or Fireball?. Astrophysical Journal, 2019, 872, 114. | 1.6 | 19 |
| 93 | All-sky, all-frequency directional search for persistent gravitational waves from Advanced LIGO's and Advanced Virgo's first three observing runs. Physical Review D, 2022, 105, . | 1.6 | 18 |
| 94 | Gravitational wave detection without boot straps: A Bayesian approach. Physical Review D, 2019, 100, . | 1.6 | 16 |
| 95 | PyFstat: a Python package for continuous gravitational-wave data analysis. Journal of Open Source Software, 2021, 6, 3000. | 2.0 | 16 |
| 96 | Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO–Virgo Run O3b. Astrophysical Journal, 2022, 928, 186. | 1.6 | 15 |
| 97 | Faster search for long gravitational-wave transients: GPU implementation of the transient \$ ewcommand{F}{mathcal{F}}oldsymbol{ F}\$ -statistic. Classical and Quantum Gravity, 2018, 35, 205003. | 1.5 | 14 |
| 98 | A semicoherent glitch-robust continuous-gravitational-wave search method. Physical Review D, 2018, 98, . | 1.6 | 14 |
| 99 | Interpreting the X-ray afterglows of gamma-ray bursts with radiative losses and millisecond magnetars. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5986-5992. | 1.6 | 14 |
| 100 | Parameterised population models of transient non-Gaussian noise in the LIGO gravitational-wave detectors. Classical and Quantum Gravity, 2022, 39, 175004. | 1.5 | 14 |
| 101 | Implications of the Occurrence of Glitches in Pulsar Free Precession Candidates. Physical Review Letters, 2017, 118, 261101. | 2.9 | 12 |
| 102 | A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. Astrophysical Journal, 2020, 893, 100. | 1.6 | 12 |
| 103 | Prospects of Gravitational Wave Detections from Common Envelope Evolution with LISA. Astrophysical Journal, 2021, 919, 128. | 1.6 | 12 |
| 104 | On the free-precession candidate PSR B1828-11: Evidence for increasing deformation. Monthly Notices of the Royal Astronomical Society, 0, , stx060. | 1.6 | 10 |
| 105 | The astrophysical odds of GW151216. Monthly Notices of the Royal Astronomical Society, 2020, 498, 1905-1910. | 1.6 | 10 |
| 106 | Characterizing Astrophysical Binary Neutron Stars with Gravitational Waves. Astrophysical Journal Letters, 2020, 902, L12. | 3.0 | 9 |
| 107 | An updated glitch rate law inferred from radio pulsars. Monthly Notices of the Royal Astronomical Society, 2022, 511, 3304-3319. | 1.6 | 8 |
| 108 | The use of hypermodels to understand binary neutron star collisions. Nature Astronomy, 2022, 6, 961-967. | 4.2 | 5 |

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| 109 | Neutron star merger remnants: Braking indices, gravitational waves, and the equation of state. AIP Conference Proceedings, 2019, , . | 0.3 | 3 |
| 110 | Low-efficiency long gamma-ray bursts: a case study with AT2020blt. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1391-1399. | 1.6 | 3 |
| 111 | Optimized localization for gravitational waves from merging binaries. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3957-3965. | 1.6 | 2 |
| 112 | Advances in our understanding of the free precession candidate PSR B1828-11. Proceedings of the International Astronomical Union, 2017, 13, 307-308. | 0.0 | 0 |