# Eric Thrane

List of Publications by Year
in descending order



| 157 | 33,458 | 16451<br>64 | 6471<br>157 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 157 | 157 | 157 | 15211 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Probing Extremal Gravitational-wave Events with Coarse-grained Likelihoods. Astrophysical Journal, 2022, 926, 34. | 4.5 | 15 |
| 2 | Flexible and Accurate Evaluation of Gravitational-wave Malmquist Bias with Machine Learning. Astrophysical Journal, 2022, 927, 76. | 4.5 | 13 |
| 3 | Linking the rates of neutron star binaries and short gamma-ray bursts. Physical Review D, 2022, 105, . | 4.7 | 21 |
| 4 | The Imprint of Superradiance on Hierarchical Black Hole Mergers. Astrophysical Journal, 2022, 931, 79. | 4.5 | 3 |
| 5 | Measuring the Properties of Active Galactic Nuclei Disks with Gravitational Waves. Astrophysical Journal, 2022, 931, 82. | 4.5 | 14 |
| 6 | Consistency of the Parkes Pulsar Timing Array Signal with a Nanohertz Gravitational-wave Background. Astrophysical Journal Letters, 2022, 932, L22. | 8.3 | 21 |
| 7 | When models fail: An introduction to posterior predictive checks and model misspecification in gravitational-wave astronomy. Publications of the Astronomical Society of Australia, 2022, 39, . | 3.4 | 12 |
| 8 | Orbital Dynamics and Extreme Scattering Event Properties from Long-term Scintillation Observations of PSR J1603â˘7202. Astrophysical Journal, 2022, 933, 16. | 4.5 | 3 |
| 9 | Identifying and mitigating noise sources in precision pulsar timing data sets. Monthly Notices of the Royal Astronomical Society, 2021, 502, 478-493. | 4.4 | 47 |
| 10 | Constraining temperature distribution inside LIGO test masses from frequencies of their vibrational modes. Physical Review D, 2021, 103, . | 4.7 | 2 |
| 11 | Standard-siren Cosmology Using Gravitational Waves from Binary Black Holes. Astrophysical Journal, 2021, 908, 215. | 4.5 | 28 |
| 12 | Heavy Double Neutron Stars: Birth, Midlife, and Death. Astrophysical Journal Letters, 2021, 909, L19. | 8.3 | 24 |
| 13 | Evidence for an intermediate-mass black hole from a gravitationally lensed gamma-ray burst. Nature Astronomy, 2021, 5, 560-568. | 10.1 | 46 |
| 14 | Memory remains undetected: Updates from the second LIGO/Virgo gravitational-wave transient catalog. Physical Review D, 2021, 104, . | 4.7 | 19 |
| 15 | Gravitational waves as a probe of globular cluster formation and evolution. Monthly Notices of the Royal Astronomical Society, 2021, 506, 2362-2372. | 4.4 | 11 |
| 16 | Evidence for Hierarchical Black Hole Mergers in the Second LIGOâ€"Virgo Gravitational Wave Catalog. Astrophysical Journal Letters, 2021, 915, L35. | 8.3 | 86 |
| 17 | On the Evidence for a Common-spectrum Process in the Search for the Nanohertz Gravitational-wave Background with the Parkes Pulsar Timing Array. Astrophysical Journal Letters, 2021, 917, L19. | 8.3 | 217 |
| 18 | Bayesian Inference for Gravitational Waves from Binary Neutron Star Mergers in Third Generation Observatories. Physical Review Letters, 2021, 127, 081102. | 7.8 | 21 |

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|---|---|---|---|
| 19 | Black-hole spectroscopy, the no-hair theorem, and GW150914: Kerr versus Occam. Physical Review D, 2021, 103, . | 4.7 | 39 |
| 20 | Inference with finite time series: Observing the gravitational Universe through windows. Physical Review Research, 2021, 3, . | 3.6 | 14 |
| 21 | Optimized localization for gravitational waves from merging binaries. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3957-3965. | 4.4 | 2 |
| 22 | Building Better Spin Models for Merging Binary Black Holes: Evidence for Nonspinning and Rapidly Spinning Nearly Aligned Subpopulations. Astrophysical Journal Letters, 2021, 921, L15. | 8.3 | 52 |
| 23 | Constraints on Weak Supernova Kicks from Observed Pulsar Velocities. Astrophysical Journal Letters, 2021, 920, L37. | 8.3 | 18 |
| 24 | Signs of Eccentricity in Two Gravitational-wave Signals May Indicate a Subpopulation of Dynamically Assembled Binary Black Holes. Astrophysical Journal Letters, 2021, 921, L31. | 8.3 | 35 |
| 25 | Implications of Eccentric Observations on Binary Black Hole Formation Channels. Astrophysical Journal Letters, 2021, 921, L43. | 8.3 | 36 |
| 26 | Did Goryachev <i>et al.</i> detect megahertz gravitational waves?. Physical Review D, 2021, 104, . | 4.7 | 4 |
| 27 | Is there a spectral turnover in the spin noise of millisecond pulsars?. Monthly Notices of the Royal Astronomical Society, 2020, 497, 3264-3272. | 4.4 | 11 |
| 28 | The astrophysical odds of GW151216. Monthly Notices of the Royal Astronomical Society, 2020, 498, 1905-1910. | 4.4 | 10 |
| 29 | Searching for anisotropy in the distribution of binary black hole mergers. Physical Review D, 2020, 102, . | 4.7 | 22 |
| 30 | Measuring the Primordial Gravitational-Wave Background in the Presence of Astrophysical Foregrounds. Physical Review Letters, 2020, 125, 241101. | 7.8 | 38 |
| 31 | Gravitational-wave inference in the catalog era: Evolving priors and marginal events. Physical Review D, 2020, 102, . | 4.7 | 21 |
| 32 | An introduction to Bayesian inference in gravitational-wave astronomy: parameter estimation, model selection, and hierarchical modelsâ€"Corrigendum. Publications of the Astronomical Society of Australia, 2020, 37, . | 3.4 | 25 |
| 33 | Bayesian inference for compact binary coalescences with <scp>bilby</scp>: validation and application to the first LIGOâ€"Virgo gravitational-wave transient catalogue. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3295-3319. | 4.4 | 213 |
| 34 | On the origin of GW190425. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 496, L64-L69. | 3.3 | 46 |
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| 36 | Memory effect or cosmic string? Classifying gravitational-wave bursts with Bayesian inference. Physical Review D, 2020, 102, . | 4.7 | 8 |

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| 38 | Measuring gravitational-wave memory in the first LIGO/Virgo gravitational-wave transient catalog. Physical Review D, 2020, 101, . | 4.7 | 43 |
| 39 | Constraining the gravitational-wave afterglow from a binary neutron star coalescence. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4945-4951. | 4.4 | 15 |
| 40 | A scalable random forest regressor for combining neutron-star equation of state measurements: a case study with GW170817 and GW190425. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5972-5977. | 4.4 | 27 |
| 41 | Gravitational-wave astronomy with a physical calibration model. Physical Review D, 2020, 102, . | 4.7 | 28 |
| 42 | Gravitational-wave astronomy with an uncertain noise power spectral density. Physical Review Research, 2020, 2, . | 3.6 | 21 |
| 43 | Constraining Short Gamma-Ray Burst Jet Properties with Gravitational Waves and Gamma-Rays. Astrophysical Journal, 2020, 893, 38. | 4.5 | 21 |
| 44 | Black Hole Genealogy: Identifying Hierarchical Mergers with Gravitational Waves. Astrophysical Journal, 2020, 900, 177. | 4.5 | 94 |
| 45 | Toward the Unambiguous Identification of Supermassive Binary Black Holes through Bayesian Inference. Astrophysical Journal, 2020, 900, 117. | 4.5 | 17 |
| 46 | GW190521: Orbital Eccentricity and Signatures of Dynamical Formation in a Binary Black Hole Merger Signal. Astrophysical Journal Letters, 2020, 903, L5. | 8.3 | 154 |
| 47 | Measuring the neutron star equation of state with gravitational waves: The first forty binary neutron star merger observations. Physical Review D, 2019, 100, . | 4.7 | 44 |
| 48 | Exploring the sensitivity of gravitational wave detectors to neutron star physics. Physical Review D, 2019, 99, . | 4.7 | 78 |
| 49 | The Mass Distribution of Galactic Double Neutron Stars. Astrophysical Journal, 2019, 876, 18. | 4.5 | 115 |
| 50 | Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. Astrophysical Journal, 2019, 870, 134. | 4.5 | 32 |
| 51 | Bilby: A User-friendly Bayesian Inference Library for Gravitational-wave Astronomy. Astrophysical Journal, Supplement Series, 2019, 241, 27. | 7.7 | 526 |
| 52 | An introduction to Bayesian inference in gravitational-wave astronomy: Parameter estimation, model selection, and hierarchical models. Publications of the Astronomical Society of Australia, 2019, 36, . | 3.4 | 227 |
| 53 | Searching for eccentricity: signatures of dynamical formation in the first gravitational-wave transient catalogue of LIGO and Virgo. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5210-5216. | 4.4 | 88 |
| 54 | Parallelized inference for gravitational-wave astronomy. Physical Review D, 2019, 100, . | 4.7 | 62 |

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| 55 | Higher order gravitational-wave modes with likelihood reweighting. Physical Review D, 2019, 100, . | 4.7 | 52 |
| 56 | Gravitational wave detection without boot straps: A Bayesian approach. Physical Review D, 2019, 100, . | 4.7 | 16 |
| 57 | Accelerated detection of the binary neutron star gravitational-wave background. Physical Review D, 2019, 100, . | 4.7 | 7 |
| 58 | The minimum and maximum gravitational-wave background from supermassive binary black holes. Monthly Notices of the Royal Astronomical Society, 2019, 482, 2588-2596. | 4.4 | 18 |
| 59 | Optimal Search for an Astrophysical Gravitational-Wave Background. Physical Review X, 2018, 8, . | 8.9 | 65 |
| 60 | Measuring the Binary Black Hole Mass Spectrum with an Astrophysically Motivated Parameterization. Astrophysical Journal, 2018, 856, 173. | 4.5 | 154 |
| 61 | Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2018, 121, 231103. | 7.8 | 77 |
| 62 | All-sky radiometer for narrowband gravitational waves using folded data. Physical Review D, 2018, 98, . | 4.7 | 15 |
| 63 | Measuring eccentricity in binary black hole inspirals with gravitational waves. Physical Review D, 2018, 98, . | 4.7 | 85 |
| 64 | GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101. | 7.8 | 1,473 |
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| 66 | Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. Physical Review Letters, 2018, 120, 201102. | 7.8 | 85 |
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| 69 | Effects of waveform model systematics on the interpretation of GW150914. Classical and Quantum Gravity, 2017, 34, 104002. | 4.0 | 98 |
| 70 | Suspending test masses in terrestrial millihertz gravitational-wave detectors: a case study with a magnetic assisted torsion pendulum. Classical and Quantum Gravity, 2017, 34, 105002. | 4.0 | 1 |
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| 72 | Directional Limits on Persistent Gravitational Waves from Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2017, 118, 121102. | 7.8 | 84 |

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| 73 | First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. Astrophysical Journal, 2017, 839, 12. | 4.5 | 131 |
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| 75 | GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101. | 7.8 | 1,600 |
| 76 | 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. | 4.5 | 46 |
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| 82 | First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. Physical Review Letters, 2017, 118, 151102. | 7.8 | 24 |
| 83 | Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 851, L16. | 8.3 | 189 |
| 84 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated withÂGW170817. Astrophysical Journal Letters, 2017, 850, L39. | 8.3 | 156 |
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| 95 | Detecting Gravitational-Wave Memory with LIGO: Implications of GW150914. Physical Review Letters, 2016, 117, 061102. | 7.8 | 126 |
| 96 | Limits of Astrophysics with Gravitational-Wave Backgrounds. Physical Review X, 2016, 6, . | 8.9 | 29 |
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| 100 | GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. Physical Review Letters, 2016, 116, 131103. | 7.8 | 466 |
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| 106 | ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. Astrophysical Journal Letters, 2016, 818, L22. | 8.3 | 633 |
| 107 | Detecting very long-lived gravitational-wave transients lasting hours to weeks. Physical Review D, 2015, 91, . | 4.7 | 24 |
| 108 | Prospects for searches for long-duration gravitational-waves without time slides. Physical Review D, 2015, 92, . | 4.7 | 8 |

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| 110 | Detecting Gravitation-Wave Transients at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>5</mml:mn><mml:mi>Ïƒ</mml:mi></mml:mrow></mml:math>: A Hierarchical Approach. Physical Review Letters, 2015, 115, 181102. | 7.8 | 24 |
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| 114 | Method for estimation of gravitational-wave transient model parameters in frequencyâ€“time maps. Classical and Quantum Gravity, 2014, 31, 165012. | 4.0 | 10 |
| 115 | FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. Astrophysical Journal, Supplement Series, 2014, 211, 7. | 7.7 | 57 |
| 116 | Seedless clustering in all-sky searches for gravitational-wave transients. Physical Review D, 2014, 89, . | 4.7 | 24 |
| 117 | Search for Nucleon Decay via<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi><mml:mo stretchy="false">â†'</mml:mo><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo stretchy="false">Â¯</mml:mo></mml:mover><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math>and xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mo stretchy="false">â†'</mml:mo><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo stretchy="false"> | 7.8 | 48 |
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| 119 | Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009â€“2010 LIGO and Virgo Data. Physical Review Letters, 2014, 113, 231101. | 7.8 | 86 |
| 120 | Statistical properties of astrophysical gravitational-wave backgrounds. Physical Review D, 2014, 89, . | 4.7 | 19 |
| 121 | Estimates of maximum energy density of cosmological gravitational-wave backgrounds. Physical Review D, 2014, 90, . | 4.7 | 32 |
| 122 | Search for Dinucleon Decay into Kaons in Super-Kamiokande. Physical Review Letters, 2014, 112, 131803. | 7.8 | 24 |
| 123 | Implementation of an $mathcal{F}$-statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. Classical and Quantum Gravity, 2014, 31, 165014. | 4.0 | 34 |
| 124 | GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. Astrophysical Journal, 2014, 785, 119. | 4.5 | 125 |
| 125 | The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. Classical and Quantum Gravity, 2014, 31, 115004. | 4.0 | 42 |
| 126 | Measuring neutron-star ellipticity with measurements of the stochastic gravitational-wave background. Physical Review D, 2014, 89, . | 4.7 | 31 |

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| 128 | Evidence for the Appearance of Atmospheric Tau Neutrinos in Super-Kamiokande. Physical Review Letters, 2013, 110, 181802. | 7.8 | 78 |
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| 133 | SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. Astrophysical Journal, Supplement Series, 2012, 203, 28. | 7.7 | 62 |
| 134 | The characterization of Virgo data and its impact on gravitational-wave searches. Classical and Quantum Gravity, 2012, 29, 155002. | 4.0 | 73 |
| 135 | Identification of noise artifacts in searches for long-duration gravitational-wave transients. Classical and Quantum Gravity, 2012, 29, 095018. | 4.0 | 15 |
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| 144 | Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data. Physical Review Letters, 2011, 107, 271102. | 7.8 | 94 |

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