# Carl Blair

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9367729/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 65<br>papers | 40,971<br>citations | 57758<br>44<br>h-index | 114465<br>63<br>g-index |
| 65<br>all docs | 65<br>docs citations | 65<br>times ranked | 16358<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Observation of Gravitational Waves from a Binary Black Hole Merger. Physical Review Letters, 2016, 116, 061102. | 7.8 | 8,753 |
| 2 | GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. Physical Review Letters, 2017, 119, 161101. | 7.8 | 6,413 |
| 3 | Multi-messenger Observations of a Binary Neutron Star Merger<sup>*</sup>. Astrophysical Journal Letters, 2017, 848, L12. | 8.3 | 2,805 |
| 4 | GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103. | 7.8 | 2,701 |
| 5 | Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. Astrophysical Journal Letters, 2017, 848, L13. | 8.3 | 2,314 |
| 6 | GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. Physical Review Letters, 2017, 118, 221101. | 7.8 | 1,987 |
| 7 | Advanced LIGO. Classical and Quantum Gravity, 2015, 32, 074001. | 4.0 | 1,929 |
| 8 | GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101. | 7.8 | 1,600 |
| 9 | GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101. | 7.8 | 1,473 |
| 10 | Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101. | 7.8 | 1,224 |
| 11 | GW190425: Observation of a Compact Binary Coalescence with Total MassÂâˆ¼Â3.4 M<sub>âŠ™</sub>. Astrophysical Journal Letters, 2020, 892, L3. | 8.3 | 1,049 |
| 12 | GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35. | 8.3 | 968 |
| 13 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3. | 26.7 | 808 |
| 14 | Exploring the sensitivity of next generation gravitational wave detectors. Classical and Quantum Gravity, 2017, 34, 044001. | 4.0 | 735 |
| 15 | Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102. | 7.8 | 673 |
| 16 | ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. Astrophysical Journal Letters, 2016, 818, L22. | 8.3 | 633 |
| 17 | GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. Physical Review Letters, 2016, 116, 131103. | 7.8 | 466 |
| 18 | Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1. | 26.7 | 427 |

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|---|---|---|---|
| 19 | Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. Physical Review Letters, 2019, 123, 231107. | 7.8 | 359 |
| 20 | GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. Physical Review D, 2016, 93, . | 4.7 | 315 |
| 21 | GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. Physical Review Letters, 2016, 116, 131102. | 7.8 | 269 |
| 22 | THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. Astrophysical Journal Letters, 2016, 833, L1. | 8.3 | 230 |
| 23 | Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001. | 4.0 | 225 |
| 24 | LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. Astrophysical Journal Letters, 2016, 826, L13. | 8.3 | 210 |
| 25 | Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2017, 118, 121101. | 7.8 | 194 |
| 26 | 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 |
| 27 | GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. Physical Review Letters, 2018, 120, 091101. | 7.8 | 166 |
| 28 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated withÂGW170817. Astrophysical Journal Letters, 2017, 850, L39. | 8.3 | 156 |
| 29 | UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STARâ€“BLACK HOLE MERGERS FROM ADVANCED LIGOâ€™S FIRST OBSERVING RUN. Astrophysical Journal Letters, 2016, 832, L21. | 8.3 | 146 |
| 30 | A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. Astrophysical Journal Letters, 2019, 871, L13. | 8.3 | 145 |
| 31 | First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. Astrophysical Journal, 2017, 839, 12. | 4.5 | 131 |
| 32 | Effects of waveform model systematics on the interpretation of GW150914. Classical and Quantum Gravity, 2017, 34, 104002. | 4.0 | 98 |
| 33 | Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGOâ€™s first observing run. Classical and Quantum Gravity, 2018, 35, 065010. | 4.0 | 94 |
| 34 | Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. Physical Review Letters, 2018, 120, 201102. | 7.8 | 85 |
| 35 | Directional Limits on Persistent Gravitational Waves from Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2017, 118, 121102. | 7.8 | 84 |
| 36 | Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2018, 121, 231103. | 7.8 | 77 |

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|---|---|---|---|
| 37 | On the Progenitor of Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 850, L40. | 8.3 | 73 |
| 38 | The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209. | 2.4 | 69 |
| 39 | First Search for Nontensorial Gravitational Waves from Known Pulsars. Physical Review Letters, 2018, 120, 031104. | 7.8 | 68 |
| 40 | SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. Astrophysical Journal, 2015, 813, 39. | 4.5 | 66 |
| 41 | SUPPLEMENT: â€œTHE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914â€•(2016, ApJL, 833, L1). Astrophysical Journal, Supplement Series, 2016, 227, 14. | 7.7 | 63 |
| 42 | Approaching the motional ground state of a 10-kg object. Science, 2021, 372, 1333-1336. | 12.6 | 59 |
| 43 | Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. Astrophysical Journal, 2017, 841, 89. | 4.5 | 52 |
| 44 | 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 |
| 45 | SUPPLEMENT: â€œLOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914â€•(2016, ApJL, 826, L13). Astrophysical Journal, Supplement Series, 2016, 225, 8. | 7.7 | 44 |
| 46 | Environmental noise in advanced LIGO detectors. Classical and Quantum Gravity, 2021, 38, 145001. | 4.0 | 38 |
| 47 | Constraining the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math> -Modeâ€“ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi></mml:math> -Mode Tidal Instability with GW170817. Physical Review Letters, 2019, 122, 061104. | 7.8 | 36 |
| 48 | 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. | 4.5 | 30 |
| 49 | Gravitational wave detectors with broadband high frequency sensitivity. Communications Physics, 2021, 4, . | 5.3 | 26 |
| 50 | First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. Physical Review Letters, 2017, 118, 151102. | 7.8 | 24 |
| 51 | Point absorbers in Advanced LIGO. Applied Optics, 2021, 60, 4047. | 1.8 | 24 |
| 52 | The next detectors for gravitational wave astronomy. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1. | 5.1 | 23 |
| 53 | Parametric instability in long optical cavities and suppression by dynamic transverse mode frequency modulation. Physical Review D, 2015, 91, . | 4.7 | 20 |
| 54 | All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. Classical and Quantum Gravity, 2018, 35, 065009. | 4.0 | 18 |

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|---|---|---|---|
| 55 | Analytical model for ring heater thermal compensation in the Advanced Laser Interferometer Gravitational-wave Observatory. Applied Optics, 2016, 55, 2619. | 2.1 | 17 |
| 56 | Quantum correlation measurements in interferometric gravitational-wave detectors. Physical Review A, 2017, 95, . | 2.5 | 16 |
| 57 | Radiation pressure excitation of test mass ultrasonic modes via three mode opto-acoustic interactions in a suspended Fabryâ€“PÃ©rot cavity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1970-1973. | 2.1 | 9 |
| 58 | Effects of transients in LIGO suspensions on searches for gravitational waves. Review of Scientific Instruments, 2017, 88, 124501. | 1.3 | 6 |
| 59 | Modular suspension system with low acoustic coupling to the suspended test mass in a prototype gravitational wave detector. Review of Scientific Instruments, 2018, 89, 074501. | 1.3 | 4 |
| 60 | Three mode interactions as a precision monitoring tool for advanced laser interferometers. Classical and Quantum Gravity, 2014, 31, 185003. | 4.0 | 3 |
| 61 | Constraining temperature distribution inside LIGO test masses from frequencies of their vibrational modes. Physical Review D, 2021, 103, . | 4.7 | 2 |
| 62 | Revealing optical loss from modal frequency degeneracy in a long optical cavity. Optics Express, 2021, 29, 23902. | 3.4 | 2 |
| 63 | Hartmann Wavefront Sensors for Advanced LIGO. , 2018, , . | | 1 |
| 64 | Parametric instability in the neutron star extreme matter observatory. Classical and Quantum Gravity, 2022, 39, 085007. | 4.0 | 1 |
| 65 | The development of ground based gravitational wave astronomy and opportunities for Australiaâ€“China collaboration. International Journal of Modern Physics A, 2015, 30, 1545019. | 1.5 | 0 |