MÃ;rton TÃ;pai

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4959475/publications.pdf

Version: 2024-02-01

80 papers

42,353 citations

54 h-index 79698 73 g-index

80 all docs 80 docs citations

80 times ranked

16249 citing authors

| # | Article | IF | CITATIONS |
|----------------------|--|--------------------------|------------------------|
| 1 | Spin flip-flops from secular dynamics of compact binaries. , 2022, , . | | O |
| 2 | Spin and quadrupolar effects in the secular evolution of precessing compact binaries with black hole, neutron star, gravastar, or boson star components. Physical Review D, 2021, 103, . | 4.7 | 2 |
| 3 | 2-OGC: Open Gravitational-wave Catalog of Binary Mergers from Analysis of Public Advanced LIGO and Virgo Data. Astrophysical Journal, 2020, 891, 123. | 4.5 | 178 |
| 4 | Extending the PyCBC search for gravitational waves from compact binary mergers to a global network. Physical Review D, 2020, 102, . | 4.7 | 58 |
| 5 | 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. | 4.0 | 94 |
| 6 | GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. Physical Review Letters, 2018, 120, 091101. | 7.8 | 166 |
| 7 | 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 |
| 8 | First Search for Nontensorial Gravitational Waves from Known Pulsars. Physical Review Letters, 2018, 120, 031104. | 7.8 | 68 |
| 9 | 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 |
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| 10 | Precessing Black Hole Binaries and Their Gravitational Radiation. Universe, 2018, 4, 40. | 2.5 | 0 |
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| | Precessing Black Hole Binaries and Their Gravitational Radiation. Universe, 2018, 4, 40. GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, | | |
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| 11 12 13 | Precessing Black Hole Binaries and Their Gravitational Radiation. Universe, 2018, 4, 40. GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101. Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. Physical Review Letters, 2018, 120, 201102. Investigating the Poor Match among Different Precessing Gravitational Waveforms. Universe, 2018, 4, 56. Full band all-sky search for periodic gravitational waves in the O1 LIGO data. Physical Review D, 2018, | 7.8 7.8 2.5 | 1,473 85 |
| 11 12 13 | Precessing Black Hole Binaries and Their Gravitational Radiation. Universe, 2018, 4, 40. GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101. Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. Physical Review Letters, 2018, 120, 201102. Investigating the Poor Match among Different Precessing Gravitational Waveforms. Universe, 2018, 4, 56. Full band all-sky search for periodic gravitational waves in the O1 LIGO data. Physical Review D, 2018, 97, . Constraints on cosmic strings using data from the first Advanced LIGO observing run. Physical | 7.8 7.8 2.5 4.7 | 1,473 85 0 46 |
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| 19 | Observation of Gravitational Waves from a Binary Black Hole Merger. , 2017, , 291-311. | | 45 |
| 20 | Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. Physical Review D, 2017, 95, . | 4.7 | 72 |
| 21 | Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. Physical Review Letters, 2017, 118, 121101. | 7.8 | 194 |
| 22 | Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. Physical Review Letters, 2017, 118, 121102. | 7.8 | 84 |
| 23 | First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. Astrophysical Journal, 2017, 839, 12. | 4.5 | 131 |
| 24 | The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209. | 2.4 | 69 |
| 25 | GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101. | 7.8 | 1,600 |
| 26 | 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 |
| 27 | A gravitational-wave standard siren measurement of the Hubble constant. Nature, 2017, 551, 85-88. | 27.8 | 674 |
| 28 | GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. Physical Review Letters, 2017, 119, 161101. | 7.8 | 6,413 |
| 29 | Multi-messenger Observations of a Binary Neutron Star Merger < sup > * < /sup > . Astrophysical Journal Letters, 2017, 848, L12. | 8.3 | 2,805 |
| 30 | 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 |
| 31 | Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. Physical Review D, 2017, 96, . | 4.7 | 73 |
| 32 | All-sky search for periodic gravitational waves in the O1 LIGO data. Physical Review D, 2017, 96, . | 4.7 | 64 |
| 33 | 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 |
| 34 | Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. Physical Review D, 2017, 96, . | 4.7 | 40 |
| 35 | 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 |
| 36 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated withÂGW170817. Astrophysical Journal Letters, 2017, 850, L39. | 8.3 | 156 |

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| 37 | Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 850, L35. | 8.3 | 135 |
| 38 | 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 |
| 39 | Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. Physical Review D, 2017, 95, . | 4.7 | 19 |
| 40 | 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, . | 4.7 | 59 |
| 41 | First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. Physical Review D, 2017, 96, . | 4.7 | 47 |
| 42 | First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. Physical Review D, 2017, 96, . | 4.7 | 60 |
| 43 | On the Progenitor of Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 850, L40. | 8.3 | 73 |
| 44 | GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35. | 8.3 | 968 |
| 45 | Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001. | 4.0 | 225 |
| 46 | 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. | 7.7 | 63 |
| 47 | Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1. | 26.7 | 427 |
| 48 | Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. Physical Review X, 2016, 6, . | 8.9 | 106 |
| 49 | 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, . | 4.7 | 31 |
| 50 | THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. Astrophysical Journal Letters, 2016, 833, L1. | 8.3 | 230 |
| 51 | LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. Astrophysical Journal Letters, 2016, 826, L13. | 8.3 | 210 |
| 52 | Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data. Physical Review D, 2016, 94, . | 4.7 | 35 |
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| 54 | UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR–BLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. Astrophysical Journal Letters, 2016, 832, L21. | 8.3 | 146 |

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| 55 | Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. Physical Review D, 2016, 94, . | 4.7 | 102 |
| 56 | All-sky search for long-duration gravitational wave transients with initial LIGO. Physical Review D, 2016, 93, . | 4.7 | 29 |
| 57 | Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers. Physical Review D, 2016, 93, . | 4.7 | 17 |
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| 59 | GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. Physical Review D, 2016, 93, . | 4.7 | 315 |
| 60 | Search for transient gravitational waves in coincidence with short-duration radio transients during 2007 ${\hat a} \in {}^{\!$ | 4.7 | 14 |
| 61 | High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. Physical Review D, 2016, 93, . | 4.7 | 92 |
| 62 | GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. Physical Review Letters, 2016, 116, 131102. | 7.8 | 269 |
| 63 | GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. Physical Review Letters, 2016, 116, 131103. | 7.8 | 466 |
| 64 | SUPPLEMENT: "LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914―(2016, ApJL, 826, L13). Astrophysical Journal, Supplement Series, 2016, 225, 8. | 7.7 | 44 |
| 65 | Observing gravitational-wave transient GW150914 with minimal assumptions. Physical Review D, 2016, 93, . | 4.7 | 119 |
| 66 | Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101. | 7.8 | 1,224 |
| 67 | Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102. | 7.8 | 673 |
| 68 | GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103. | 7.8 | 2,701 |
| 69 | Binary Black Hole Mergers in the First Advanced LIGO Observing Run. Physical Review X, 2016, 6, . | 8.9 | 898 |
| 70 | ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. Astrophysical Journal Letters, 2016, 818, L22. | 8.3 | 633 |
| 71 | Observation of Gravitational Waves from a Binary Black Hole Merger. Physical Review Letters, 2016, 116, 061102. | 7.8 | 8,753 |
| 72 | Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. Physical Review D, 2015, 91, . | 4.7 | 37 |

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| 73 | Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. Physical Review D, 2015, 91, . | 4.7 | 47 |
| 74 | Advanced LIGO. Classical and Quantum Gravity, 2015, 32, 074001. | 4.0 | 1,929 |
| 75 | GRAVITATIONAL WAVEFORMS FOR UNEQUAL MASS BLACK HOLE BINARIES DETECTABLE BY KAGRA. , 2015, , . | | 0 |
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| 77 | Gravitational Waveforms for Black Hole Binaries with Unequal Masses. Springer Proceedings in Physics, 2014, , 455-458. | 0.2 | 0 |
| 78 | Supermassive black hole mergers as dual sources for electromagnetic flares in the jet emission and gravitational waves. Astronomische Nachrichten, 2013, 334, 1032-1035. | 1.2 | 3 |
| 79 | Spin-dominated waveforms for unequal mass compact binaries. Physical Review D, 2012, 86, . | 4.7 | 2 |
| 80 | Compact binary waveform recovery from the cross-correlated data of two detectors by matched filtering with spinning templates. Journal of Physics: Conference Series, 2010, 243, 012008. | 0.4 | 0 |