# HÃ©ctor EstellÃ©s Estrella

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/547326/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 49<br>papers | 12,646<br>citations | 109321<br>35<br>h-index | 182427<br>51<br>g-index |
| 51<br>all docs | 51<br>docs citations | 51<br>times ranked | 5859<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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, . | 8.9 | 2,022 |
| 2 | GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101. | 7.8 | 1,473 |
| 3 | 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. | 8.3 | 1,090 |
| 4 | 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 |
| 5 | GW190521: A Binary Black Hole Merger 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>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:msub><mml:mrow><mml:mo stretchy="false">âŠ™</mml:mo></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2020, 125, 101102. | 7.8 | 838 |
| 6 | Properties of the Binary Neutron Star Merger GW170817. Physical Review X, 2019, 9, . | 8.9 | 728 |
| 7 | 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. | 8.3 | 566 |
| 8 | Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. Physical Review D, 2019, 100, . | 4.7 | 470 |
| 9 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3. | 26.7 | 447 |
| 10 | Properties and Astrophysical Implications of the 150 M<sub>âŠ™</sub> Binary Black Hole Merger GW190521. Astrophysical Journal Letters, 2020, 900, L13. | 8.3 | 406 |
| 11 | GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. Physical Review D, 2020, 102, . | 4.7 | 394 |
| 12 | Tests of General Relativity with GW170817. Physical Review Letters, 2019, 123, 011102. | 7.8 | 370 |
| 13 | 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 |
| 14 | Search for the isotropic stochastic background using data from Advanced LIGOâ€™s second observing run. Physical Review D, 2019, 100, . | 4.7 | 200 |
| 15 | Computationally efficient models for the dominant and subdominant harmonic modes of precessing binary black holes. Physical Review D, 2021, 103, . | 4.7 | 198 |
| 16 | A guide to LIGOâ€“Virgo detector noise and extraction of transient gravitational-wave signals. Classical and Quantum Gravity, 2020, 37, 055002. | 4.0 | 188 |
| 17 | First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binaryâ€“Black-hole Merger GW170814. Astrophysical Journal Letters, 2019, 876, L7. | 8.3 | 179 |
| 18 | Multimode frequency-domain model for the gravitational wave signal from nonprecessing black-hole binaries. Physical Review D, 2020, 102, . | 4.7 | 126 |

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|---|---|---|---|
| 19 | Setting the cornerstone for a family of models for gravitational waves from compact binaries: The dominant harmonic for nonprecessing quasicircular black holes. Physical Review D, 2020, 102, . | 4.7 | 121 |
| 20 | Search for Subsolar Mass Ultracompact Binaries in Advanced LIGOâ€™s Second Observing Run. Physical Review Letters, 2019, 123, 161102. | 7.8 | 119 |
| 21 | Model comparison from LIGOâ€“Virgo data on GW170817â€™s binary components and consequences for the merger remnant. Classical and Quantum Gravity, 2020, 37, 045006. | 4.0 | 109 |
| 22 | All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. Physical Review D, 2019, 100, . | 4.7 | 102 |
| 23 | Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal, 2019, 875, 160. | 4.5 | 97 |
| 24 | Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015â€“2017 LIGO Data. Astrophysical Journal, 2019, 879, 10. | 4.5 | 88 |
| 25 | Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2018, 121, 231103. | 7.8 | 77 |
| 26 | Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. Astrophysical Journal, 2019, 883, 149. | 4.5 | 72 |
| 27 | Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. Astrophysical Journal, 2019, 875, 161. | 4.5 | 71 |
| 28 | Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. Physical Review D, 2020, 101, . | 4.7 | 69 |
| 29 | Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical Journal Letters, 2020, 902, L21. | 8.3 | 65 |
| 30 | Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO<sup>*</sup>. Astrophysical Journal, 2019, 875, 122. | 4.5 | 61 |
| 31 | Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. Physical Review D, 2019, 99, . | 4.7 | 60 |
| 32 | All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. Physical Review D, 2019, 100, . | 4.7 | 54 |
| 33 | Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network. Physical Review D, 2019, 100, . | 4.7 | 52 |
| 34 | Directional limits on persistent gravitational waves using data from Advanced LIGOâ€™s first two observing runs. Physical Review D, 2019, 100, . | 4.7 | 52 |
| 35 | Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model. Physical Review D, 2019, 100, . | 4.7 | 46 |
| 36 | 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 |

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|---|---|---|---|
| 37 | First survey of spinning eccentric black hole mergers: Numerical relativity simulations, hybrid waveforms, and parameter estimation. Physical Review D, 2020, 101, . | 4.7 | 35 |
| 38 | A Detailed Analysis of GW190521 with Phenomenological Waveform Models. Astrophysical Journal, 2022, 924, 79. | 4.5 | 35 |
| 39 | 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 |
| 40 | New twists in compact binary waveform modeling: A fast time-domain model for precession. Physical Review D, 2022, 105, . | 4.7 | 31 |
| 41 | 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 |
| 42 | Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. Astrophysical Journal, 2019, 886, 75. | 4.5 | 29 |
| 43 | Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGOâ€™s Second Observing Run. Astrophysical Journal, 2019, 874, 163. | 4.5 | 26 |
| 44 | Phenomenological time domain model for dominant quadrupole gravitational wave signal of coalescing binary black holes. Physical Review D, 2021, 103, . | 4.7 | 26 |
| 45 | Towards the routine use of subdominant harmonics in gravitational-wave inference: Reanalysis of GW190412 with generation X waveform models. Physical Review D, 2021, 103, . | 4.7 | 25 |
| 46 | All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. Physical Review D, 2019, 99, . | 4.7 | 22 |
| 47 | Time-domain phenomenological model of gravitational-wave subdominant harmonics for quasicircular nonprecessing binary black hole coalescences. Physical Review D, 2022, 105, . | 4.7 | 19 |
| 48 | 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. | 4.5 | 12 |
| 49 | Matched-filter study and energy budget suggest no detectable gravitational-wave â€˜extended emissionâ€™ from GW170817. Monthly Notices of the Royal Astronomical Society, 2019, 485, 843-850. | 4.4 | 8 |