

Annalisa Allocca

List of Publications by Year in descending order

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Version: 2024-02-01

164
papers

57,378
citations

9786

73
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5539

163
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165
all docs

165
docs citations

165
times ranked

16780
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 [*] . 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 | Advanced Virgo: a second-generation interferometric gravitational wave detector. Classical and Quantum Gravity, 2015, 32, 024001. | 4.0 | 2,530 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101. | 7.8 | 1,600 |
| 10 | GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101. | 7.8 | 1,473 |
| 11 | Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101. | 7.8 | 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, . | 8.9 | 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. | 8.3 | 1,090 |
| 14 | GW190425: Observation of a Compact Binary Coalescence with Total Mass $\sim 3.4 M_{\odot}$. Astrophysical Journal Letters, 2020, 892, L3. | 8.3 | 1,049 |
| 15 | Characterization of the LIGO detectors during their sixth science run. Classical and Quantum Gravity, 2015, 32, 115012. | 4.0 | 1,029 |
| 16 | GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35. | 8.3 | 968 |
| 17 | Binary Black Hole Mergers in the First Advanced LIGO Observing Run. Physical Review X, 2016, 6, . | 8.9 | 898 |
| 18 | GW190521: A Binary Black Hole Merger with a Total Mass of $\sim 85 M_{\odot}$. Physical Review Letters, 2020, 125, 101102. | 7.8 | 836 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 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 |
| 20 | Properties of the Binary Neutron Star Merger GW170817. Physical Review X, 2019, 9, . | 8.9 | 728 |
| 21 | Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102. | 7.8 | 673 |
| 22 | ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. Astrophysical Journal Letters, 2016, 818, L22. | 8.3 | 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. | 8.3 | 566 |
| 24 | Population Properties of Compact Objects from the Second LIGO–Virgo Gravitational-Wave Transient Catalog. Astrophysical Journal Letters, 2021, 913, L7. | 8.3 | 514 |
| 25 | 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 |
| 26 | GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. Physical Review Letters, 2016, 116, 131103. | 7.8 | 466 |
| 27 | Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. Astrophysical Journal Letters, 2021, 915, L5. | 8.3 | 453 |
| 28 | 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 |
| 29 | Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1. | 26.7 | 427 |
| 30 | Properties and Astrophysical Implications of the $150 M_{\odot}$ Binary Black Hole Merger GW190521. Astrophysical Journal Letters, 2020, 900, L13. | 8.3 | 406 |
| 31 | GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. Physical Review D, 2020, 102, . | 4.7 | 394 |
| 32 | Tests of General Relativity with GW170817. Physical Review Letters, 2019, 123, 011102. | 7.8 | 370 |
| 33 | Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog. Physical Review D, 2021, 103, . | 4.7 | 338 |
| 34 | GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. Physical Review D, 2016, 93, . | 4.7 | 315 |
| 35 | GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. Physical Review Letters, 2016, 116, 131102. | 7.8 | 269 |
| 36 | Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. Physical Review Letters, 2019, 123, 231108. | 7.8 | 254 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016, 833, L1. | 8.3 | 230 |
| 38 | Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016, 33, 134001. | 4.0 | 225 |
| 39 | LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016, 826, L13. | 8.3 | 210 |
| 40 | Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 200 |
| 41 | Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121101. | 7.8 | 194 |
| 42 | Upper limits on the isotropic gravitational-wave background from Advanced LIGO and Advanced Virgo's third observing run. <i>Physical Review D</i> , 2021, 104, . | 4.7 | 192 |
| 43 | Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L16. | 8.3 | 189 |
| 44 | A guide to LIGO's Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 2020, 37, 055002. | 4.0 | 188 |
| 45 | First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary's Black-hole Merger GW170814. <i>Astrophysical Journal Letters</i> , 2019, 876, L7. | 8.3 | 179 |
| 46 | GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018, 120, 091101. | 7.8 | 166 |
| 47 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39. | 8.3 | 156 |
| 48 | UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR-BLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016, 832, L21. | 8.3 | 146 |
| 49 | A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019, 871, L13. | 8.3 | 145 |
| 50 | A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 909, 218. | 4.5 | 144 |
| 51 | Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. <i>Physical Review D</i> , 2013, 88, . | 4.7 | 132 |
| 52 | First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017, 839, 12. | 4.5 | 131 |
| 53 | GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014, 785, 119. | 4.5 | 125 |
| 54 | Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , 2016, 93, . | 4.7 | 119 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019, 123, 161102. | 7.8 | 119 |
| 56 | Model comparison from LIGO's Virgo data on GW170817's binary components and consequences for the merger remnant. <i>Classical and Quantum Gravity</i> , 2020, 37, 045006. | 4.0 | 109 |
| 57 | Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. <i>Physical Review X</i> , 2016, 6, . | 8.9 | 106 |
| 58 | Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. <i>Physical Review D</i> , 2016, 94, . | 4.7 | 102 |
| 59 | All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 102 |
| 60 | Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017, 34, 104002. | 4.0 | 98 |
| 61 | Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019, 875, 160. | 4.5 | 97 |
| 62 | Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run. <i>Classical and Quantum Gravity</i> , 2018, 35, 065010. | 4.0 | 94 |
| 63 | Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009–2010. <i>Physical Review D</i> , 2013, 87, . | 4.7 | 92 |
| 64 | Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. <i>Physical Review D</i> , 2013, 87, . | 4.7 | 91 |
| 65 | Constraints on cosmic strings using data from the first Advanced LIGO observing run. <i>Physical Review D</i> , 2018, 97, . | 4.7 | 88 |
| 66 | Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. <i>Astrophysical Journal</i> , 2019, 879, 10. | 4.5 | 88 |
| 67 | Constraints on Cosmic Strings Using Data from the Third Advanced LIGO's Virgo Observing Run. <i>Physical Review Letters</i> , 2021, 126, 241102. | 7.8 | 87 |
| 68 | Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009–2010 LIGO and Virgo Data. <i>Physical Review Letters</i> , 2014, 113, 231101. | 7.8 | 86 |
| 69 | Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102. | 7.8 | 85 |
| 70 | Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121102. | 7.8 | 84 |
| 71 | Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018, 121, 231103. | 7.8 | 77 |
| 72 | The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012, 29, 155002. | 4.0 | 73 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. Physical Review D, 2017, 96, . | 4.7 | 73 |
| 74 | On the Progenitor of Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 850, L40. | 8.3 | 73 |
| 75 | 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 |
| 76 | 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 |
| 77 | All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. Physical Review D, 2017, 95, . | 4.7 | 69 |
| 78 | The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209. | 2.4 | 69 |
| 79 | 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 |
| 80 | Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors. Physical Review Letters, 2014, 112, 131101. | 7.8 | 68 |
| 81 | First Search for Nontensorial Gravitational Waves from Known Pulsars. Physical Review Letters, 2018, 120, 031104. | 7.8 | 68 |
| 82 | SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. Astrophysical Journal, 2015, 813, 39. | 4.5 | 66 |
| 83 | Directed search for continuous gravitational waves from the Galactic center. Physical Review D, 2013, 88, . | 4.7 | 65 |
| 84 | Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical Journal Letters, 2020, 902, L21. | 8.3 | 65 |
| 85 | All-sky search for periodic gravitational waves in the O1 LIGO data. Physical Review D, 2017, 96, . | 4.7 | 64 |
| 86 | 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 |
| 87 | SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. Astrophysical Journal, Supplement Series, 2012, 203, 28. | 7.7 | 62 |
| 88 | Search for anisotropic gravitational-wave backgrounds using data from Advanced LIGO and Advanced Virgo’s first three observing runs. Physical Review D, 2021, 104, . | 4.7 | 62 |
| 89 | Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO [*] . Astrophysical Journal, 2019, 875, 122. | 4.5 | 61 |
| 90 | First all-sky search for continuous gravitational waves from unknown sources in binary systems. Physical Review D, 2014, 90, . | 4.7 | 60 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors. <i>Physical Review D</i> , 2016, 94, . | 4.7 | 60 |
| 92 | First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. <i>Physical Review D</i> , 2017, 96, . | 4.7 | 60 |
| 93 | Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. <i>Physical Review D</i> , 2019, 99, . | 4.7 | 60 |
| 94 | Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. <i>Physical Review D</i> , 2017, 95, . | 4.7 | 59 |
| 95 | Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGOâ€“Virgoâ€™s Third Observing Run. <i>Astrophysical Journal</i> , 2021, 923, 14. | 4.5 | 59 |
| 96 | FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 7. | 7.7 | 57 |
| 97 | All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 54 |
| 98 | Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. <i>Astrophysical Journal</i> , 2017, 841, 89. | 4.5 | 52 |
| 99 | Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 52 |
| 100 | Directional limits on persistent gravitational waves using data from Advanced LIGOâ€™s first two observing runs. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 52 |
| 101 | Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. <i>Physical Review D</i> , 2015, 91, . | 4.7 | 47 |
| 102 | First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , 2017, 96, . | 4.7 | 47 |
| 103 | Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-based Cross-correlation Search in Advanced LIGO Data. <i>Astrophysical Journal</i> , 2017, 847, 47. | 4.5 | 46 |
| 104 | Full band all-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2018, 97, . | 4.7 | 46 |
| 105 | Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 46 |
| 106 | SUPPLEMENT: â€œLOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914â€•(2016, <i>ApJL</i> , 826, L13). <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 8. | 7.7 | 44 |
| 107 | The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. <i>Classical and Quantum Gravity</i> , 2014, 31, 115004. | 4.0 | 42 |
| 108 | All-sky search for continuous gravitational waves from isolated neutron stars in the early O3 LIGO data. <i>Physical Review D</i> , 2021, 104, . | 4.7 | 42 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ (Tj ETQq1 1 0.784314 rgBT /Overdo | 4.0 | 41 |
| 110 | Large and extremely low loss: the unique challenges of gravitational wave mirrors. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, C85. | 1.5 | 40 |
| 111 | Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors. Physical Review D, 2015, 91, . | 4.7 | 39 |
| 112 | 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 |
| 113 | Constraining the p -Mode Tidal Instability with GW170817. Physical Review Letters, 2019, 122, 061104. | 7.8 | 36 |
| 114 | Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run. Physical Review D, 2014, 89, . | 4.7 | 35 |
| 115 | Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data. Physical Review D, 2016, 94, . | 4.7 | 35 |
| 116 | Quantum Backaction on Kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. Physical Review Letters, 2020, 125, 131101. | 7.8 | 35 |
| 117 | Implementation of an F -statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. Classical and Quantum Gravity, 2014, 31, 165014. | 4.0 | 34 |
| 118 | All-sky search for short gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run. Physical Review D, 2021, 104, . | 4.7 | 33 |
| 119 | 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. | 4.5 | 33 |
| 120 | A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 008-008. | 5.4 | 32 |
| 121 | Search for Gravitational Waves Associated with γ -ray Bursts Detected by the Interplanetary Network. Physical Review Letters, 2014, 113, 011102. | 7.8 | 32 |
| 122 | First low frequency all-sky search for continuous gravitational wave signals. Physical Review D, 2016, 93, . | 4.7 | 32 |
| 123 | Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo. Astronomy and Astrophysics, 2022, 659, A84. | 5.1 | 32 |
| 124 | Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts. Physical Review D, 2013, 88, . | 4.7 | 31 |
| 125 | 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 |
| 126 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors. <i>Physical Review D</i> , 2014, 89, . | 4.7 | 29 |
| 128 | All-sky search for long-duration gravitational wave transients with initial LIGO. <i>Physical Review D</i> , 2016, 93, . | 4.7 | 29 |
| 129 | Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal</i> , 2019, 886, 75. | 4.5 | 29 |
| 130 | Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005–2010. <i>Physical Review D</i> , 2014, 89, . | 4.7 | 28 |
| 131 | The Advanced Virgo detector. <i>Journal of Physics: Conference Series</i> , 2015, 610, 012014. | 0.4 | 27 |
| 132 | Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO’s Second Observing Run. <i>Astrophysical Journal</i> , 2019, 874, 163. | 4.5 | 26 |
| 133 | All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. <i>Physical Review D</i> , 2019, 99, . | 4.7 | 22 |
| 134 | Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run. <i>Classical and Quantum Gravity</i> , 2014, 31, 085014. | 4.0 | 21 |
| 135 | Search of the early O3 LIGO data for continuous gravitational waves from the Cassiopeia A and Vela Jr. supernova remnants. <i>Physical Review D</i> , 2022, 105, . | 4.7 | 21 |
| 136 | Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO–Virgo Run O3a. <i>Astrophysical Journal</i> , 2021, 915, 86. | 4.5 | 20 |
| 137 | Calibration of advanced Virgo and reconstruction of the detector strain $h(t)$ during the observing run O3. <i>Classical and Quantum Gravity</i> , 2022, 39, 045006. | 4.0 | 20 |
| 138 | First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, . | 6.6 | 20 |
| 139 | Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. <i>Physical Review D</i> , 2017, 95, . | 4.7 | 19 |
| 140 | All-sky search for long-duration gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2021, 104, . | 4.7 | 19 |
| 141 | All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. <i>Classical and Quantum Gravity</i> , 2018, 35, 065009. | 4.0 | 18 |
| 142 | All-sky, all-frequency directional search for persistent gravitational waves from Advanced LIGO’s and Advanced Virgo’s first three observing runs. <i>Physical Review D</i> , 2022, 105, . | 4.7 | 18 |
| 143 | Higher-order Laguerre-Gauss interferometry for gravitational-wave detectors with <i>in situ</i> mirror defects compensation. <i>Physical Review D</i> , 2015, 92, . | 4.7 | 17 |
| 144 | Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers. <i>Physical Review D</i> , 2016, 93, . | 4.7 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Interferometer Sensing and Control for the Advanced Virgo Experiment in the O3 Scientific Run. <i>Galaxies</i> , 2020, 8, 85. | 3.0 | 15 |
| 146 | Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO“Virgo Run O3b. <i>Astrophysical Journal</i> , 2022, 928, 186. | 4.5 | 15 |
| 147 | Search for transient gravitational waves in coincidence with short-duration radio transients during 2007“2013. <i>Physical Review D</i> , 2016, 93, . | 4.7 | 14 |
| 148 | Research Facilities for Europe“s Next Generation Gravitational-Wave Detector Einstein Telescope. <i>Galaxies</i> , 2022, 10, 65. | 3.0 | 13 |
| 149 | A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. <i>Astrophysical Journal</i> , 2020, 893, 100. | 4.5 | 12 |
| 150 | Central heating radius of curvature correction (CHRoCC) for use in large scale gravitational wave interferometers. <i>Classical and Quantum Gravity</i> , 2013, 30, 055017. | 4.0 | 11 |
| 151 | Reconstruction of the gravitational wave signal $h(t)$ during the Virgo science runs and independent validation with a photon calibrator. <i>Classical and Quantum Gravity</i> , 2014, 31, 165013. | 4.0 | 10 |
| 152 | Results of Measuring the Influence of Casimir Energy on Superconducting Phase Transitions. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 2557-2565. | 1.8 | 9 |
| 153 | Status of Advanced Virgo. <i>EPJ Web of Conferences</i> , 2018, 182, 02003. | 0.3 | 9 |
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