

Giancarlo Cella

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ext. citations

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L-index

| # | Paper | IF | Citations |
|-----------------|---|-----|-----------|
| 3 ²¹ | Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016 , 116, 061102 | 7.4 | 6108 |
| 3 ²⁰ | GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017 , 119, 161101 | 7.4 | 4272 |
| 3 ¹⁹ | GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2016 , 116, 241103 | 7.4 | 2136 |
| 3 ¹⁸ | Multi-messenger Observations of a Binary Neutron Star Merger. <i>Astrophysical Journal Letters</i> , 2017 , 848, L12 | 7.9 | 1935 |
| 3 ¹⁷ | Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017 , 848, L13 | 7.9 | 1614 |
| 3 ¹⁶ | GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017 , 118, 221101 | 7.4 | 1609 |
| 3 ¹⁵ | Advanced Virgo: a second-generation interferometric gravitational wave detector. <i>Classical and Quantum Gravity</i> , 2015 , 32, 024001 | 3.3 | 1567 |
| 3 ¹⁴ | GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017 , 119, 141101 | 7.4 | 1270 |
| 3 ¹³ | GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo during the First and Second Observing Runs. <i>Physical Review X</i> , 2019 , 9, | 9.1 | 1169 |
| 3 ¹² | Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , 2010 , 27, 173001 | 3.3 | 869 |
| 3 ¹¹ | GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018 , 121, 161101 | 7.4 | 867 |
| 3 ¹⁰ | Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016 , 116, 221101 | 7.4 | 837 |
| 3 ⁰⁹ | GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017 , 851, L35 | 7.9 | 809 |
| 3 ⁰⁸ | Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115012 | 3.3 | 790 |
| 3 ⁰⁷ | Binary Black Hole Mergers in the First Advanced LIGO Observing Run. <i>Physical Review X</i> , 2016 , 6, | 9.1 | 723 |
| 3 ⁰⁶ | The Einstein Telescope: a third-generation gravitational wave observatory. <i>Classical and Quantum Gravity</i> , 2010 , 27, 194002 | 3.3 | 675 |
| 3 ⁰⁵ | GW190425: Observation of a Compact Binary Coalescence with Total Mass $\sim 3.4 M_{\odot}$. <i>Astrophysical Journal Letters</i> , 2020 , 892, L3 | 7.9 | 591 |

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| 304 | GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. <i>Astrophysical Journal Letters</i> , 2020 , 896, L44 | 7.9 | 571 |
| 303 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018 , 21, 3 | 32.5 | 543 |
| 302 | Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102 | 7.4 | 515 |
| 301 | ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22 | 7.9 | 512 |
| 300 | Properties of the Binary Neutron Star Merger GW170817. <i>Physical Review X</i> , 2019 , 9, | 9.1 | 423 |
| 299 | GW190521: A Binary Black Hole Merger with a Total Mass of $150 M_{\odot}$. <i>Physical Review Letters</i> , 2020 , 125, 101102 | 7.4 | 420 |
| 298 | Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016 , 19, 1 | 32.5 | 393 |
| 297 | Sensitivity studies for third-generation gravitational wave observatories. <i>Classical and Quantum Gravity</i> , 2011 , 28, 094013 | 3.3 | 382 |
| 296 | Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal Letters</i> , 2019 , 882, L24 | 7.9 | 381 |
| 295 | GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103 | 7.4 | 328 |
| 294 | GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo during the First Half of the Third Observing Run. <i>Physical Review X</i> , 2021 , 11, | 9.1 | 311 |
| 293 | An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , 2009 , 460, 990-4 | 50.4 | 267 |
| 292 | Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. <i>Physical Review D</i> , 2019 , 100, | 4.9 | 258 |
| 291 | Scientific objectives of Einstein Telescope. <i>Classical and Quantum Gravity</i> , 2012 , 29, 124013 | 3.3 | 256 |
| 290 | GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016 , 93, | 4.9 | 253 |
| 289 | The third generation of gravitational wave observatories and their science reach. <i>Classical and Quantum Gravity</i> , 2010 , 27, 084007 | 3.3 | 214 |
| 288 | Virgo: a laser interferometer to detect gravitational waves. <i>Journal of Instrumentation</i> , 2012 , 7, P03012-R03012 | 12 | 12 |
| 287 | GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. <i>Physical Review D</i> , 2020 , 102, | 4.9 | 212 |

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| 286 | THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 833, L1 | 7.9 | 209 |
| 285 | Properties and Astrophysical Implications of the 150 M \odot Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020 , 900, L13 | 7.9 | 207 |
| 284 | Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , 2019 , 123, 011102 | 7.4 | 204 |
| 283 | Population Properties of Compact Objects from the Second LIGO/Virgo Gravitational-Wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2021 , 913, L7 | 7.9 | 194 |
| 282 | GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102 | 7.4 | 188 |
| 281 | LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 826, L13 | 7.9 | 183 |
| 280 | Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 172 |
| 279 | The Virgo status. <i>Classical and Quantum Gravity</i> , 2006 , 23, S635-S642 | 3.3 | 166 |
| 278 | Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33, | 3.3 | 155 |
| 277 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020 , 23, 3 | 32.5 | 144 |
| 276 | Observation of Gravitational Waves from Two Neutron Star-Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021 , 915, L5 | 7.9 | 142 |
| 275 | SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , 2010 , 713, 671-685 | 4.7 | 140 |
| 274 | Status of the Virgo project. <i>Classical and Quantum Gravity</i> , 2011 , 28, 114002 | 3.3 | 140 |
| 273 | Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121101 | 7.4 | 137 |
| 272 | Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. <i>Physical Review Letters</i> , 2019 , 123, 231108 | 7.4 | 134 |
| 271 | Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 851, L16 | 7.9 | 133 |
| 270 | 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 | 7.9 | 130 |
| 269 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L39 | 7.9 | 127 |

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| 268 | Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. <i>Physical Review D</i> , 2013 , 88, | 4.9 | 122 |
| 267 | GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018 , 120, 091101 | 7.4 | 120 |
| 266 | Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. <i>Physical Review D</i> , 2019 , 100, | 4.9 | 117 |
| 265 | Status of Virgo. <i>Classical and Quantum Gravity</i> , 2008 , 25, 114045 | 3.3 | 115 |
| 264 | Virgo status. <i>Classical and Quantum Gravity</i> , 2008 , 25, 184001 | 3.3 | 110 |
| 263 | GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014 , 785, 119 | 4.7 | 109 |
| 262 | First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017 , 839, 12 | 4.7 | 107 |
| 261 | Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. <i>Physical Review D</i> , 2010 , 82, | 4.9 | 100 |
| 260 | All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 96 |
| 259 | Measuring gravitomagnetic effects by a multi-ring-laser gyroscope. <i>Physical Review D</i> , 2011 , 84, | 4.9 | 96 |
| 258 | Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , 2016 , 93, | 4.9 | 94 |
| 257 | SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. <i>Astrophysical Journal</i> , 2012 , 760, 12 | 4.7 | 94 |
| 256 | First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary Black-hole Merger GW170814. <i>Astrophysical Journal Letters</i> , 2019 , 876, L7 | 7.9 | 91 |
| 255 | 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, | 4.9 | 91 |
| 254 | QCD corrections to the weak radiative π -meson decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 248, 181-187 | 4.2 | 91 |
| 253 | Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. <i>Physical Review X</i> , 2016 , 6, | 9.1 | 89 |
| 252 | Status of VIRGO. <i>Classical and Quantum Gravity</i> , 2004 , 21, S385-S394 | 3.3 | 87 |
| 251 | Directional limits on persistent gravitational waves using LIGO S5 science data. <i>Physical Review Letters</i> , 2011 , 107, 271102 | 7.4 | 85 |

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| 250 | Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. <i>Physical Review D</i> , 2013 , 87, | 4.9 | 84 |
| 249 | Calibration and sensitivity of the Virgo detector during its second science run. <i>Classical and Quantum Gravity</i> , 2011 , 28, 025005 | 3.3 | 83 |
| 248 | The $b\text{-}g$ decay revisited. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994 , 325, 227-234 | 4.2 | 83 |
| 247 | All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. <i>Physical Review D</i> , 2019 , 100, | 4.9 | 81 |
| 246 | All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. <i>Physical Review D</i> , 2010 , 81, | 4.9 | 81 |
| 245 | Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog. <i>Physical Review D</i> , 2021 , 103, | 4.9 | 81 |
| 244 | Measurement of the VIRGO superattenuator performance for seismic noise suppression. <i>Review of Scientific Instruments</i> , 2001 , 72, 3643-3652 | 1.7 | 80 |
| 243 | The present status of the VIRGO Central Interferometer*. <i>Classical and Quantum Gravity</i> , 2002 , 19, 1421-1428 | 3.5 | 80 |
| 242 | SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. <i>Astrophysical Journal</i> , 2010 , 715, 1453-1461 | 4.7 | 79 |
| 241 | The status of VIRGO. <i>Classical and Quantum Gravity</i> , 2006 , 23, S63-S69 | 3.3 | 79 |
| 240 | A guide to LIGO/Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 2020 , 37, 055002 | 3.3 | 78 |
| 239 | A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019 , 871, L13 | 7.9 | 77 |
| 238 | Search for gravitational waves from binary black hole inspiral, merger, and ringdown. <i>Physical Review D</i> , 2011 , 83, | 4.9 | 77 |
| 237 | Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. <i>Physical Review D</i> , 2016 , 94, | 4.9 | 76 |
| 236 | AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. <i>EPJ Quantum Technology</i> , 2020 , 7, | 6.9 | 76 |
| 235 | BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. <i>Astrophysical Journal</i> , 2011 , 737, 93 | 4.7 | 75 |
| 234 | Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002 | 3.3 | 74 |
| 233 | Improved upper limits on the stochastic gravitational-wave background from 2009-2010 LIGO and Virgo data. <i>Physical Review Letters</i> , 2014 , 113, 231101 | 7.4 | 74 |

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| 232 | An inverted pendulum preisolator stage for the VIRGO suspension system. <i>Review of Scientific Instruments</i> , 1999 , 70, 2507-2515 | 1.7 | 73 |
| 231 | Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012 , 539, A124 | 5.1 | 71 |
| 230 | Model comparison from LIGO-Virgo data on GW170817's binary components and consequences for the merger remnant. <i>Classical and Quantum Gravity</i> , 2020 , 37, 045006 | 3.3 | 69 |
| 229 | First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012 , 541, A155 | 5.1 | 69 |
| 228 | Measurement of the seismic attenuation performance of the VIRGO Superattenuator. <i>Astroparticle Physics</i> , 2005 , 23, 557-565 | 2.4 | 69 |
| 227 | Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019 , 123, 161102 | 7.4 | 68 |
| 226 | Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121102 | 7.4 | 65 |
| 225 | Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. <i>Physical Review D</i> , 2017 , 96, | 4.9 | 64 |
| 224 | Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015-2017 LIGO Data. <i>Astrophysical Journal</i> , 2019 , 879, 10 | 4.7 | 63 |
| 223 | 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 | 3.3 | 62 |
| 222 | All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 61 |
| 221 | Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019 , 875, 160 | 4.7 | 60 |
| 220 | Constraints on cosmic strings using data from the first Advanced LIGO observing run. <i>Physical Review D</i> , 2018 , 97, | 4.9 | 60 |
| 219 | Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102 | 7.4 | 60 |
| 218 | Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. <i>Physical Review Letters</i> , 2014 , 112, 131101 | 7.4 | 59 |
| 217 | The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012 , 29, 155002 | 3.3 | 59 |
| 216 | SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39 | 4.7 | 58 |
| 215 | Directed search for continuous gravitational waves from the Galactic center. <i>Physical Review D</i> , 2013 , 88, | 4.9 | 57 |

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| 214 | SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 203, 28 | 8 | 57 |
| 213 | All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. <i>Physical Review D</i> , 2017 , 95, | 4.9 | 54 |
| 212 | All-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2017 , 96, | 4.9 | 54 |
| 211 | First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. <i>Physical Review D</i> , 2017 , 96, | 4.9 | 54 |
| 210 | First all-sky search for continuous gravitational waves from unknown sources in binary systems. <i>Physical Review D</i> , 2014 , 90, | 4.9 | 54 |
| 209 | SEARCH FOR GRAVITATIONAL-WAVE BURSTS ASSOCIATED WITH GAMMA-RAY BURSTS USING DATA FROM LIGO SCIENCE RUN 5 AND VIRGO SCIENCE RUN 1. <i>Astrophysical Journal</i> , 2010 , 715, 1438-1452 | 4.7 | 54 |
| 208 | Measurements of Superattenuator seismic isolation by Virgo interferometer. <i>Astroparticle Physics</i> , 2010 , 33, 182-189 | 2.4 | 54 |
| 207 | Status of Virgo. <i>Classical and Quantum Gravity</i> , 2005 , 22, S869-S880 | 3.3 | 52 |
| 206 | SUPPLEMENT: THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914 (2016, ApJL, 833, L1). <i>Astrophysical Journal, Supplement Series</i> , 2016 , 227, 14 | 8 | 52 |
| 205 | FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 211, 7 | 8 | 51 |
| 204 | Status of Virgo detector. <i>Classical and Quantum Gravity</i> , 2007 , 24, S381-S388 | 3.3 | 51 |
| 203 | First Search for Nontensorial Gravitational Waves from Known Pulsars. <i>Physical Review Letters</i> , 2018 , 120, 031104 | 7.4 | 50 |
| 202 | On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L40 | 7.9 | 50 |
| 201 | Inertial control of the mirror suspensions of the VIRGO interferometer for gravitational wave detection. <i>Review of Scientific Instruments</i> , 2001 , 72, 3653-3661 | 1.7 | 50 |
| 200 | Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. <i>Astrophysical Journal</i> , 2019 , 875, 161 | 4.7 | 49 |
| 199 | Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018 , 121, 231103 | 7.4 | 49 |
| 198 | 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, | 4.9 | 47 |
| 197 | SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , 2011 , 734, L35 | 7.9 | 47 |

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| 196 | The VIRGO interferometer for gravitational wave detection. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1997 , 54, 167-175 | | 47 |
| 195 | Search for gravitational waves from intermediate mass binary black holes. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 46 |
| 194 | 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 | 4.7 | 46 |
| 193 | The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209 | 2.6 | 45 |
| 192 | Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. <i>Astrophysical Journal</i> , 2019 , 875, 122 | 4.7 | 45 |
| 191 | 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, | 4.9 | 43 |
| 190 | Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. <i>Physical Review D</i> , 2019 , 99, | 4.9 | 43 |
| 189 | Extending the VIRGO gravitational wave detection band down to a few Hz: metal blade springs and magnetic antisprings. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997 , 394, 397-408 | 1.2 | 43 |
| 188 | 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 | 4.7 | 42 |
| 187 | Monolithic geometric anti-spring blades. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 540, 502-519 | 1.2 | 42 |
| 186 | Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600–1000 Hz. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 40 |
| 185 | Improving the sensitivity of future GW observatories in the 1–10 Hz band: Newtonian and seismic noise. <i>General Relativity and Gravitation</i> , 2011 , 43, 623-656 | 2.3 | 40 |
| 184 | All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2019 , 100, | 4.9 | 39 |
| 183 | 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, | 4.9 | 39 |
| 182 | First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , 2017 , 96, | 4.9 | 39 |
| 181 | QCD corrections to electroweak processes in an unconventional scheme: application to the $b \rightarrow s$ decay. <i>Nuclear Physics B</i> , 1994 , 431, 417-452 | 2.8 | 39 |
| 180 | Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. <i>Physical Review D</i> , 2015 , 91, | 4.9 | 38 |
| 179 | SUPPLEMENT: LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914 [2016, ApJL, 826, L13]. <i>Astrophysical Journal, Supplement Series</i> , 2016 , 225, 8 | 8 | 38 |

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| 178 | QCD corrections to the μ -se+e μ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 258, 212-218 | 4.2 | 38 |
| 177 | Full band all-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2018 , 97, | 4.9 | 37 |
| 176 | Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. <i>Astrophysical Journal</i> , 2019 , 883, 149 | 4.7 | 36 |
| 175 | Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. <i>Physical Review D</i> , 2020 , 101, | 4.9 | 36 |
| 174 | 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 | 4.7 | 35 |
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