

Andreas Freise

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

250
papers

28,081
citations

76
h-index

166
g-index

269
ext. papers

32,763
ext. citations

5.2
avg, IF

5.57
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 250 | 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 |
| 249 | Two-Carrier Scheme: Evading the 3dB Quantum Penalty of Heterodyne Readout in Gravitational-Wave Detectors. <i>Physical Review Letters</i> , 2021 , 126, 221301 | 7.4 | |
| 248 | An interactive gravitational-wave detector model for museums and fairs. <i>American Journal of Physics</i> , 2021 , 89, 702-712 | 0.7 | 1 |
| 247 | Feasibility study of beam-expanding telescopes in the interferometer arms for the Einstein Telescope. <i>Physical Review D</i> , 2021 , 103, | 4.9 | 2 |
| 246 | Pykat: Python package for modelling precision optical interferometers. <i>SoftwareX</i> , 2020 , 12, 100613 | 2.7 | 3 |
| 245 | Implications of the quantum noise target for the Einstein Telescope infrastructure design. <i>Physical Review D</i> , 2020 , 101, | 4.9 | 5 |
| 244 | Increased sensitivity of higher-order laser beams to mode mismatches. <i>Optics Letters</i> , 2020 , 45, 5876-5878 | 3.8 | 3 |
| 243 | High dynamic range spatial mode decomposition. <i>Optics Express</i> , 2020 , 28, 10253-10269 | 3.3 | 0 |
| 242 | A cryogenic silicon interferometer for gravitational-wave detection. <i>Classical and Quantum Gravity</i> , 2020 , 37, 165003 | 3.3 | 50 |
| 241 | Simplified optical configuration for a sloshing-speedmeter-enhanced gravitational wave detector. <i>Classical and Quantum Gravity</i> , 2020 , 37, 025007 | 3.3 | 3 |
| 240 | 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 |
| 239 | Quantum squeezing schemes for heterodyne readout. <i>Physical Review D</i> , 2020 , 101, | 4.9 | 1 |
| 238 | Exploring the sensitivity of gravitational wave detectors to neutron star physics. <i>Physical Review D</i> , 2019 , 99, | 4.9 | 48 |
| 237 | Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. <i>Astrophysical Journal</i> , 2019 , 870, 134 | 4.7 | 23 |
| 236 | Converting the signal-recycling cavity into an unstable optomechanical filter to enhance the detection bandwidth of gravitational-wave detectors. <i>Physical Review D</i> , 2019 , 99, | 4.9 | 6 |
| 235 | Prospects for Detecting Gravitational Waves at 5Hz with Ground-Based Detectors. <i>Physical Review Letters</i> , 2018 , 120, 141102 | 7.4 | 33 |
| 234 | Feasibility of near-unstable cavities for future gravitational wave detectors. <i>Physical Review D</i> , 2018 , 97, | 4.9 | 4 |

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| 233 | 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 |
| 232 | A compact, large-range interferometer for precision measurement and inertial sensing. <i>Classical and Quantum Gravity</i> , 2018 , 35, 095007 | 3.3 | 13 |
| 231 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1 | | 2 |
| 230 | Mitigating Mode-Matching Loss in Nonclassical Laser Interferometry. <i>Physical Review Letters</i> , 2018 , 121, 263602 | 7.4 | 10 |
| 229 | Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018 , 121, 231103 | 7.4 | 49 |
| 228 | Exploring gravity with the MIGA large scale atom interferometer. <i>Scientific Reports</i> , 2018 , 8, 14064 | 4.9 | 86 |
| 227 | GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018 , 121, 161101 | 7.4 | 867 |
| 226 | Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102 | 7.4 | 60 |
| 225 | Exploring the sensitivity of next generation gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2017 , 34, 044001 | 3.3 | 454 |
| 224 | Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002 | 3.3 | 74 |
| 223 | Thermal modelling of Advanced LIGO test masses. <i>Classical and Quantum Gravity</i> , 2017 , 34, 115001 | 3.3 | 4 |
| 222 | Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. <i>Physical Review D</i> , 2017 , 95, | 4.9 | 60 |
| 221 | 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 |
| 220 | First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017 , 839, 12 | 4.7 | 107 |
| 219 | The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209 | 2.6 | 45 |
| 218 | 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 |
| 217 | A gravitational-wave standard siren measurement of the Hubble constant. <i>Nature</i> , 2017 , 551, 85-88 | 50.4 | 413 |
| 216 | 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 |

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| 215 | Multi-spatial-mode effects in squeezed-light-enhanced interferometric gravitational wave detectors. <i>Physical Review D</i> , 2017 , 96, | 4.9 | 5 |
| 214 | 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 |
| 213 | 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 |
| 212 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L39 | 7.9 | 127 |
| 211 | Fundamental limitations of cavity-assisted atom interferometry. <i>Physical Review A</i> , 2017 , 96, | 2.6 | 10 |
| 210 | 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 |
| 209 | On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L40 | 7.9 | 50 |
| 208 | GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017 , 851, L35 | 7.9 | 809 |
| 207 | The influence of dual-recycling on parametric instabilities at Advanced LIGO. <i>Classical and Quantum Gravity</i> , 2017 , 34, 205004 | 3.3 | 10 |
| 206 | Broadband sensitivity enhancement of detuned dual-recycled Michelson interferometers with EPR entanglement. <i>Physical Review D</i> , 2017 , 96, | 4.9 | 13 |
| 205 | UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STARBLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016 , 832, L21 | 7.9 | 130 |
| 204 | Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy. <i>Physical Review D</i> , 2016 , 93, | 4.9 | 208 |
| 203 | GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102 | 7.4 | 188 |
| 202 | GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103 | 7.4 | 328 |
| 201 | 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 |
| 200 | Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016 , 116, 221101 | 7.4 | 837 |
| 199 | Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102 | 7.4 | 515 |
| 198 | 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 |

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| 197 | The UK National Quantum Technologies Hub in sensors and metrology (Keynote Paper) 2016 , | | 6 |
| 196 | ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22 | 7.9 | 512 |
| 195 | Fast simulation of Gaussian-mode scattering for precision interferometry. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 025604 | 1.7 | 4 |
| 194 | Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33, | 3.3 | 155 |
| 193 | Interferometer techniques for gravitational-wave detection. <i>Living Reviews in Relativity</i> , 2016 , 19, 3 | 32.5 | 25 |
| 192 | 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 |
| 191 | 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 |
| 190 | | | |
| 189 | Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115012 | 3.3 | 790 |
| 188 | Advanced LIGO. <i>Classical and Quantum Gravity</i> , 2015 , 32, 074001 | 3.3 | 1098 |
| 187 | SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39 | 4.7 | 58 |
| 186 | Progress and challenges in advanced ground-based gravitational-wave detectors. <i>General Relativity and Gravitation</i> , 2014 , 46, 1 | 2.3 | 2 |
| 185 | Implementation of an F -statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. <i>Classical and Quantum Gravity</i> , 2014 , 31, 165014 | 3.3 | 27 |
| 184 | GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014 , 785, 119 | 4.7 | 109 |
| 183 | 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 | 3.3 | 34 |
| 182 | Education and public outreach on gravitational-wave astronomy. <i>General Relativity and Gravitation</i> , 2014 , 46, 1 | 2.3 | 1 |
| 181 | Concepts and research for future detectors. <i>General Relativity and Gravitation</i> , 2014 , 46, 1 | 2.3 | 2 |
| 180 | FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 211, 7 | 8 | 51 |

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|-----|--|------|-----|
| 179 | Fluorescence detection at the atom shot noise limit for atom interferometry. <i>New Journal of Physics</i> , 2014 , 16, 093046 | 2.9 | 21 |
| 178 | Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. <i>Physical Review Letters</i> , 2014 , 112, 131101 | 7.4 | 59 |
| 177 | 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 |
| 176 | Sensitivity of intracavity filtering schemes for detecting gravitational waves. <i>Physical Review D</i> , 2014 , 89, | 4.9 | 2 |
| 175 | Experimental test of higher-order Laguerre-Gauss modes in the 10 m Glasgow prototype interferometer. <i>Classical and Quantum Gravity</i> , 2013 , 30, 035004 | 3.3 | 21 |
| 174 | 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 |
| 173 | Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013 , 7, 613-619 | 33.9 | 572 |
| 172 | Interferometer phase noise due to beam misalignment on diffraction gratings. <i>Optics Express</i> , 2013 , 21, 29578-91 | 3.3 | 1 |
| 171 | Invariance of waveguide grating mirrors to lateral displacement phase shifts. <i>Optics Letters</i> , 2013 , 38, 1844-6 | 3 | 6 |
| 170 | Generation of high-purity higher-order Laguerre-Gauss beams at high laser power. <i>Physical Review Letters</i> , 2013 , 110, 251101 | 7.4 | 26 |
| 169 | Realistic polarizing Sagnac topology with DC readout for the Einstein Telescope. <i>Physical Review D</i> , 2013 , 87, | 4.9 | 13 |
| 168 | The generation of higher-order Laguerre-Gauss optical beams for high-precision interferometry. <i>Journal of Visualized Experiments</i> , 2013 , | 1.6 | 4 |
| 167 | IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. <i>Astrophysical Journal</i> , 2012 , 755, 2 | 4.7 | 53 |
| 166 | All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 96 |
| 165 | Search for gravitational waves from intermediate mass binary black holes. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 46 |
| 164 | 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 |
| 163 | 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 |
| 162 | Publisher's Note: Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar [Phys. Rev. D 83, 042001 (2011)]. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 2 |

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| 161 | All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 61 |
| 160 | Publisher's Note: Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1 [Phys. Rev. D 82, 102001 (2010)]. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 2 |
| 159 | Virgo: a laser interferometer to detect gravitational waves. <i>Journal of Instrumentation</i> , 2012 , 7, P03012-P03012 | | |
| 158 | Scientific objectives of Einstein Telescope. <i>Classical and Quantum Gravity</i> , 2012 , 29, 124013 | 3.3 | 256 |
| 157 | A new method for the absolute amplitude calibration of GEO 600. <i>Classical and Quantum Gravity</i> , 2012 , 29, 065001 | 3.3 | 4 |
| 156 | Sensors and actuators for the Advanced LIGO mirror suspensions. <i>Classical and Quantum Gravity</i> , 2012 , 29, 115005 | 3.3 | 51 |
| 155 | SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 203, 28 | 8 | 57 |
| 154 | The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012 , 29, 155002 | 3.3 | 59 |
| 153 | Publisher's Note: All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run [Phys. Rev. D 81, 102001 (2010)]. <i>Physical Review D</i> , 2012 , 85, | 4.9 | 3 |
| 152 | Review of the Laguerre-Gauss mode technology research program at Birmingham. <i>Journal of Physics: Conference Series</i> , 2012 , 363, 012010 | 0.3 | 1 |
| 151 | Phase effects in Gaussian beams on diffraction gratings. <i>Journal of Physics: Conference Series</i> , 2012 , 363, 012014 | 0.3 | 2 |
| 150 | First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012 , 541, A155 | 5.1 | 69 |
| 149 | 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 |
| 148 | Computer-games for gravitational wave science outreach:Black Hole Pong and Space Time Quest. <i>Journal of Physics: Conference Series</i> , 2012 , 363, 012057 | 0.3 | 4 |
| 147 | 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 |
| 146 | THE VIRGO INTERFEROMETER FOR GRAVITATIONAL WAVE DETECTION. <i>International Journal of Modern Physics D</i> , 2011 , 20, 2075-2079 | 2.2 | 4 |
| 145 | Translational, rotational, and vibrational coupling into phase in diffractively coupled optical cavities. <i>Optics Letters</i> , 2011 , 36, 2746-8 | 3 | 4 |
| 144 | The Seismic Superattenuators of the Virgo Gravitational Waves Interferometer. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2011 , 30, 63-79 | 1.5 | 19 |

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| 143 | SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , 2011 , 734, L35 | 7.9 | 47 |
| 142 | BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. <i>Astrophysical Journal</i> , 2011 , 737, 93 | 4.7 | 75 |
| 141 | Optical detector topology for third-generation gravitational wave observatories. <i>General Relativity and Gravitation</i> , 2011 , 43, 537-567 | 2.3 | 5 |
| 140 | Automatic Alignment system during the second science run of the Virgo interferometer. <i>Astroparticle Physics</i> , 2011 , 34, 327-332 | 2.4 | 5 |
| 139 | Performance of the Virgo interferometer longitudinal control system during the second science run. <i>Astroparticle Physics</i> , 2011 , 34, 521-527 | 2.4 | 10 |
| 138 | Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar. <i>Physical Review D</i> , 2011 , 83, | 4.9 | 40 |
| 137 | Higher order Laguerre-Gauss mode degeneracy in realistic, high finesse cavities. <i>Physical Review D</i> , 2011 , 84, | 4.9 | 31 |
| 136 | Search for gravitational waves from binary black hole inspiral, merger, and ringdown. <i>Physical Review D</i> , 2011 , 83, | 4.9 | 77 |
| 135 | Carbon fiber reinforced polymer dimensional stability investigations for use on the laser interferometer space antenna mission telescope. <i>Review of Scientific Instruments</i> , 2011 , 82, 124501 | 1.7 | 9 |
| 134 | Sensitivity studies for third-generation gravitational wave observatories. <i>Classical and Quantum Gravity</i> , 2011 , 28, 094013 | 3.3 | 382 |
| 133 | Calibration and sensitivity of the Virgo detector during its second science run. <i>Classical and Quantum Gravity</i> , 2011 , 28, 025005 | 3.3 | 83 |
| 132 | Directional limits on persistent gravitational waves using LIGO S5 science data. <i>Physical Review Letters</i> , 2011 , 107, 271102 | 7.4 | 85 |
| 131 | A gravitational wave observatory operating beyond the quantum shot-noise limit. <i>Nature Physics</i> , 2011 , 7, 962-965 | 16.2 | 554 |
| 130 | The third generation of gravitational wave observatories and their science reach. <i>Classical and Quantum Gravity</i> , 2010 , 27, 084007 | 3.3 | 214 |
| 129 | SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , 2010 , 713, 671-685 | 4.7 | 140 |
| 128 | The Einstein Telescope: a third-generation gravitational wave observatory. <i>Classical and Quantum Gravity</i> , 2010 , 27, 194002 | 3.3 | 675 |
| 127 | A xylophone configuration for a third-generation gravitational wave detector. <i>Classical and Quantum Gravity</i> , 2010 , 27, 015003 | 3.3 | 105 |
| 126 | Noise from scattered light in Virgo's second science run data. <i>Classical and Quantum Gravity</i> , 2010 , 27, 194011 | 3.3 | 31 |

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| 125 | 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 |
| 124 | Experimental demonstration of higher-order Laguerre-Gauss mode interferometry. <i>Physical Review D</i> , 2010 , 82, | 4.9 | 25 |
| 123 | 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 |
| 122 | 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 |
| 121 | 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 |
| 120 | Control and automatic alignment of the output mode cleaner of GEO 600. <i>Journal of Physics: Conference Series</i> , 2010 , 228, 012014 | 0.3 | 5 |
| 119 | Design of the Advanced Virgo non-degenerate recycling cavities. <i>Journal of Physics: Conference Series</i> , 2010 , 228, 012016 | 0.3 | 2 |
| 118 | Lateral input-optic displacement in a diffractive Fabry-Perot cavity. <i>Journal of Physics: Conference Series</i> , 2010 , 228, 012022 | 0.3 | 1 |
| 117 | Tools for noise characterization in Virgo. <i>Journal of Physics: Conference Series</i> , 2010 , 243, 012004 | 0.3 | |
| 116 | Virgo calibration and reconstruction of the gravitational wave strain during VSR1. <i>Journal of Physics: Conference Series</i> , 2010 , 228, 012015 | 0.3 | 7 |
| 115 | The upgrade of GEO 600. <i>Journal of Physics: Conference Series</i> , 2010 , 228, 012012 | 0.3 | 57 |
| 114 | Status and perspectives of the Virgo gravitational wave detector. <i>Journal of Physics: Conference Series</i> , 2010 , 203, 012074 | 0.3 | 22 |
| 113 | Commissioning of the tuned DC readout at GEO 600. <i>Journal of Physics: Conference Series</i> , 2010 , 228, 012013 | 0.3 | 3 |
| 112 | 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 |
| 111 | Interferometer Techniques for Gravitational-Wave Detection. <i>Living Reviews in Relativity</i> , 2010 , 13, 1 | 32.5 | 38 |
| 110 | FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. <i>Astrophysical Journal</i> , 2010 , 722, 1504-1513 | 4.7 | 95 |
| 109 | Performances of the Virgo interferometer longitudinal control system. <i>Astroparticle Physics</i> , 2010 , 33, 75-80 | 2.4 | 8 |
| 108 | Measurements of Superattenuator seismic isolation by Virgo interferometer. <i>Astroparticle Physics</i> , 2010 , 33, 182-189 | 2.4 | 54 |

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| 107 | Calibration of the LIGO gravitational wave detectors in the fifth science run. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 624, 223-240 | 1.2 | 108 |
| 106 | All-sky LIGO search for periodic gravitational waves in the early fifth-science-run data. <i>Physical Review Letters</i> , 2009 , 102, 111102 | 7.4 | 77 |
| 105 | 2009 , | | 1 |
| 104 | Cleaning the Virgo sampled data for the search of periodic sources of gravitational waves. <i>Classical and Quantum Gravity</i> , 2009 , 26, 204002 | 3.3 | 5 |
| 103 | DC-readout of a signal-recycled gravitational wave detector. <i>Classical and Quantum Gravity</i> , 2009 , 26, 055012 | 3.3 | 55 |
| 102 | Triple Michelson interferometer for a third-generation gravitational wave detector. <i>Classical and Quantum Gravity</i> , 2009 , 26, 085012 | 3.3 | 61 |
| 101 | Coupling of lateral grating displacement to the output ports of a diffractive Fabry-Pérot cavity. <i>Journal of Optics</i> , 2009 , 11, 085502 | | 9 |
| 100 | Observation of a kilogram-scale oscillator near its quantum ground state. <i>New Journal of Physics</i> , 2009 , 11, 073032 | 2.9 | 93 |
| 99 | An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , 2009 , 460, 990-4 | 50.4 | 267 |
| 98 | Einstein@Home search for periodic gravitational waves in LIGO S4 data. <i>Physical Review D</i> , 2009 , 79, | 4.9 | 77 |
| 97 | Search for gravitational-wave bursts in the first year of the fifth LIGO science run. <i>Physical Review D</i> , 2009 , 80, | 4.9 | 71 |
| 96 | LIGO: the Laser Interferometer Gravitational-Wave Observatory. <i>Reports on Progress in Physics</i> , 2009 , 72, 076901 | 14.4 | 822 |
| 95 | Prospects of higher-order Laguerre-Gauss modes in future gravitational wave detectors. <i>Physical Review D</i> , 2009 , 79, | 4.9 | 42 |
| 94 | Einstein@Home search for periodic gravitational waves in early S5 LIGO data. <i>Physical Review D</i> , 2009 , 80, | 4.9 | 73 |
| 93 | First LIGO search for gravitational wave bursts from cosmic (super)strings. <i>Physical Review D</i> , 2009 , 80, | 4.9 | 43 |
| 92 | Search for gravitational waves from low mass compact binary coalescence in 186 days of LIGO's fifth science run. <i>Physical Review D</i> , 2009 , 80, | 4.9 | 100 |
| 91 | Search for gravitational waves from low mass binary coalescences in the first year of LIGO's S5 data. <i>Physical Review D</i> , 2009 , 79, | 4.9 | 115 |
| 90 | Using the etalon effect for in situ balancing of the Advanced Virgo arm cavities. <i>Classical and Quantum Gravity</i> , 2009 , 26, 025005 | 3.3 | 17 |

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