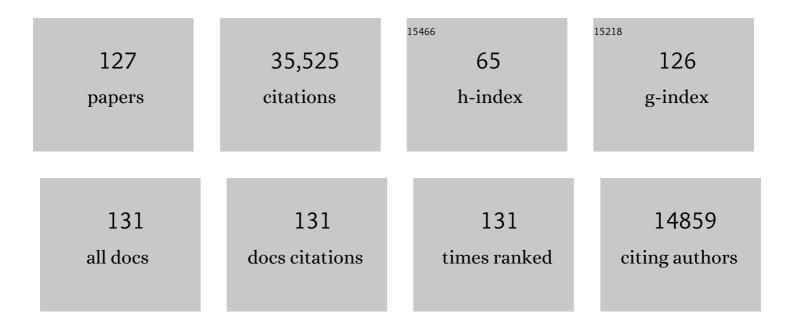
Robert L Ward

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/240765/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|
| 1 | GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. Physical Review Letters, 2017, 119, 161101. | 2.9 | 6,413 |
| 2 | GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103. | 2.9 | 2,701 |
| 3 | Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. Astrophysical Journal Letters, 2017, 848, L13. | 3.0 | 2,314 |
| 4 | GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. Physical Review Letters, 2017, 118, 221101. | 2.9 | 1,987 |
| 5 | GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101. | 2.9 | 1,600 |
| 6 | GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101. | 2.9 | 1,473 |
| 7 | Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101. | 2.9 | 1,224 |
| 8 | 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. | 3.0 | 1,090 |
| 9 | GW190425: Observation of a Compact Binary Coalescence with Total MassÂâ^¼Â3.4 M _⊙ . Astrophysical Journal Letters, 2020, 892, L3. | 3.0 | 1,049 |
| 10 | Characterization of the LIGO detectors during their sixth science run. Classical and Quantum Gravity, 2015, 32, 115012. | 1.5 | 1,029 |
| 11 | GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35. | 3.0 | 968 |
| 12 | Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. Classical and Quantum Gravity, 2010, 27, 173001. | 1.5 | 956 |
| 13 | 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><ml:mtext> <ml:mtext> stretchy="false">aŠ™</ml:mtext></ml:mtext></mml:mrow>. Physical Review</mml:math | ml ææ ext> | < നങ്ങർന്നെ sub |
| 14 | Letters, 2020, 125, 101102. Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. Nature Photonics, 2013, 7, 613-619. | 15.6 | 825 |
| 15 | A gravitational wave observatory operating beyond the quantum shot-noise limit. Nature Physics, 2011, 7, 962-965. | 6.5 | 716 |
| 16 | A gravitational-wave standard siren measurement of the Hubble constant. Nature, 2017, 551, 85-88. | 13.7 | 674 |
| 17 | Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102. | 2.9 | 673 |
| 18 | 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. | 3.0 | 566 |

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| 19 | GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. Physical Review Letters, 2016, 116, 131103. | 2.9 | 466 |
| 20 | Properties and Astrophysical Implications of the 150 M _⊙ Binary Black Hole Merger GW190521. Astrophysical Journal Letters, 2020, 900, L13. | 3.0 | 406 |
| 21 | Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. Physical Review Letters, 2019, 123, 231107. | 2.9 | 359 |
| 22 | An upper limit on the stochastic gravitational-wave background of cosmological origin. Nature, 2009, 460, 990-994. | 13.7 | 303 |
| 23 | Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy. Physical Review D, 2016, 93, . | 1.6 | 286 |
| 24 | A quantum-enhanced prototype gravitational-wave detector. Nature Physics, 2008, 4, 472-476. | 6.5 | 280 |
| 25 | GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. Physical Review Letters, 2016, 116, 131102. | 2.9 | 269 |
| 26 | THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. Astrophysical Journal Letters, 2016, 833, L1. | 3.0 | 230 |
| 27 | Sensitivity and performance of the Advanced LIGO detectors in the third observing run. Physical Review D, 2020, 102, . | 1.6 | 196 |
| 28 | Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. Physical Review Letters, 2017, 118, 121101. | 2.9 | 194 |
| 29 | Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 851, L16. | 3.0 | 189 |
| 30 | 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. Astrophysical Journal Letters, 2019, 876, L7. | 3.0 | 179 |
| 31 | Status of the Virgo project. Classical and Quantum Gravity, 2011, 28, 114002. | 1.5 | 171 |
| 32 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated withÂGW170817. Astrophysical Journal Letters, 2017, 850, L39. | 3.0 | 156 |
| 33 | SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. Astrophysical Journal, 2010, 713, 671-685. | 1.6 | 155 |
| 34 | 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. | 3.0 | 146 |
| 35 | Implications for the Origin of GRB 070201 from LIGO Observations. Astrophysical Journal, 2008, 681, 1419-1430. | 1.6 | 143 |
| 36 | First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. Astrophysical Journal, 2017, 839, 12. | 1.6 | 131 |

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| 37 | GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. Astrophysical Journal, 2014, 785, 119. | 1.6 | 125 |
| 38 | Searching for a Stochastic Background of Gravitational Waves with the Laser Interferometer Gravitational-Wave Observatory. Astrophysical Journal, 2007, 659, 918-930. | 1.6 | 120 |
| 39 | A cryogenic silicon interferometer for gravitational-wave detection. Classical and Quantum Gravity, 2020, 37, 165003. | 1.5 | 120 |
| 40 | Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. Physical Review Letters, 2019, 123, 161102. | 2.9 | 119 |
| 41 | FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. Astrophysical Journal, 2010, 722, 1504-1513. | 1.6 | 104 |
| 42 | SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. Astrophysical Journal, 2012, 760, 12. | 1.6 | 104 |
| 43 | Identification and mitigation of narrow spectral artifacts that degrade searches for persistent gravitational waves in the first two observing runs of Advanced LIGO. Physical Review D, 2018, 97, . | 1.6 | 104 |
| 44 | Effects of waveform model systematics on the interpretation of GW150914. Classical and Quantum Gravity, 2017, 34, 104002. | 1.5 | 98 |
| 45 | Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal, 2019, 875, 160. | 1.6 | 97 |
| 46 | SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. Astrophysical Journal, 2010, 715, 1453-1461. | 1.6 | 90 |
| 47 | Upper Limits on a Stochastic Background of Gravitational Waves. Physical Review Letters, 2005, 95, 221101. | 2.9 | 89 |
| 48 | Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. Astrophysical Journal, 2019, 879, 10. | 1.6 | 88 |
| 49 | Observation of Parametric Instability in Advanced LIGO. Physical Review Letters, 2015, 114, 161102. | 2.9 | 87 |
| 50 | Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009–2010 LIGO and Virgo Data. Physical Review Letters, 2014, 113, 231101. | 2.9 | 86 |
| 51 | Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. Physical Review Letters, 2018, 120, 201102. | 2.9 | 85 |
| 52 | Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. Physical Review Letters, 2017, 118, 121102. | 2.9 | 84 |
| 53 | All-Sky LIGO Search for Periodic Gravitational Waves in the Early Fifth-Science-Run Data. Physical Review Letters, 2009, 102, 111102. | 2.9 | 83 |
| 54 | Search for gravitational-wave bursts in LIGO data from the fourth science run. Classical and Quantum Gravity, 2007, 24, 5343-5369. | 1.5 | 78 |

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| 55 | Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. Physical Review Letters, 2018, 121, 231103. | 2.9 | 77 |
| 56 | Improving astrophysical parameter estimation via offline noise subtraction for Advanced LIGO. Physical Review D, 2019, 99, . | 1.6 | 77 |
| 57 | Higher-Order Laguerre-Gauss Mode Generation and Interferometry for Gravitational Wave Detectors. Physical Review Letters, 2010, 105, 231102. | 2.9 | 73 |
| 58 | The characterization of Virgo data and its impact on gravitational-wave searches. Classical and Quantum Gravity, 2012, 29, 155002. | 1.5 | 73 |
| 59 | On the Progenitor of Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 850, L40. | 3.0 | 73 |
| 60 | 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. | 1.6 | 72 |
| 61 | Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. Astrophysical Journal, 2019, 875, 161. | 1.6 | 71 |
| 62 | Search for Gravitational-Wave Bursts from Soft Gamma Repeaters. Physical Review Letters, 2008, 101, 211102. | 2.9 | 69 |
| 63 | The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209. | 0.9 | 69 |
| 64 | Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors. Physical Review Letters, 2014, 112, 131101. | 2.9 | 68 |
| 65 | SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. Astrophysical Journal, 2015, 813, 39. | 1.6 | 66 |
| 66 | Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical Journal Letters, 2020, 902, L21. | 3.0 | 65 |
| 67 | SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. Astrophysical Journal, Supplement Series, 2012, 203, 28. | 3.0 | 62 |
| 68 | Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO [*] . Astrophysical Journal, 2019, 875, 122. | 1.6 | 61 |
| 69 | SEARCH FOR GRAVITATIONAL-WAVE BURSTS ASSOCIATED WITH GAMMA-RAY BURSTS USING DATA FROM LIGO SCIENCE RUN 5 AND VIRGO SCIENCE RUN 1. Astrophysical Journal, 2010, 715, 1438-1452. | 1.6 | 60 |
| 70 | IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. Astrophysical Journal, 2012, 755, 2. | 1.6 | 60 |
| 71 | FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. Astrophysical Journal, Supplement Series, 2014, 211, 7. | 3.0 | 57 |
| 72 | SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. Astrophysical Journal Letters, 2011, 734, L35. | 3.0 | 55 |

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| 73 | Achieving resonance in the Advanced LIGO gravitational-wave interferometer. Classical and Quantum Gravity, 2014, 31, 245010. | 1.5 | 55 |
| 74 | 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. | 1.6 | 52 |
| 75 | Narrowing the Filter-Cavity Bandwidth in Gravitational-Wave Detectors via Optomechanical Interaction. Physical Review Letters, 2014, 113, 151102. | 2.9 | 51 |
| 76 | Measurement of optical response of a detuned resonant sideband extraction gravitational wave detector. Physical Review D, 2006, 74, . | 1.6 | 48 |
| 77 | 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. | 1.6 | 46 |
| 78 | STACKED SEARCH FOR GRAVITATIONAL WAVES FROM THE 2006 SGR 1900+14 STORM. Astrophysical Journal, 2009, 701, L68-L74. | 1.6 | 45 |
| 79 | SUPPLEMENT: "LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914―(2016, ApJL, 826, L13). Astrophysical Journal, Supplement Series, 2016, 225, 8. | 3.0 | 44 |
| 80 | The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. Classical and Quantum Gravity, 2014, 31, 115004. | 1.5 | 42 |
| 81 | Search for gravitational-wave bursts in LIGO's third science run. Classical and Quantum Gravity, 2006, 23, S29-S39. | 1.5 | 40 |
| 82 | Broadband reduction of quantum radiation pressure noise via squeezed light injection. Nature Photonics, 2020, 14, 19-23. | 15.6 | 37 |
| 83 | Laser link acquisition demonstration for the GRACE Follow-On mission. Optics Express, 2014, 22, 11351. | 1.7 | 35 |
| 84 | Implementation of an \$mathcal{F}\$-statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. Classical and Quantum Gravity, 2014, 31, 165014. | 1.5 | 34 |
| 85 | dc readout experiment at the Caltech 40m prototype interferometer. Classical and Quantum Gravity, 2008, 25, 114030. | 1.5 | 32 |
| 86 | 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. | 1.6 | 32 |
| 87 | 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. | 1.6 | 30 |
| 88 | Observation of Squeezed Light in the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mtext> </mml:mtext><mml:mtext> mathvariant="normal">m</mml:mtext></mml:mrow></mml:math> Region. Physical Review Letters, 2018, 120, 203603. | mtext> <n 2.9</n | 1ml;mi>μ |
| 89 | 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. | 1.6 | 29 |
| 90 | High power compatible internally sensed optical phased array. Optics Express, 2016, 24, 13467. | 1.7 | 28 |

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| 91 | Weak-light phase tracking with a low cycle slip rate. Optics Letters, 2014, 39, 5251. | 1.7 | 27 |
| 92 | Tunable narrow-linewidth laser at 2â€Î¼m wavelength for gravitational wave detector research. Optics Express, 2020, 28, 3280. | 1.7 | 27 |
| 93 | Interferometers for Displacement-Noise-Free Gravitational-Wave Detection. Physical Review Letters, 2006, 97, 151103. | 2.9 | 26 |
| 94 | Astrophysically triggered searches for gravitational waves: status and prospects. Classical and Quantum Gravity, 2008, 25, 114051. | 1.5 | 26 |
| 95 | Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. Astrophysical Journal, 2019, 874, 163. | 1.6 | 26 |
| 96 | First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. Physical Review Letters, 2017, 118, 151102. | 2.9 | 24 |
| 97 | First joint search for gravitational-wave bursts in LIGO and GEO 600 data. Classical and Quantum Gravity, 2008, 25, 245008. | 1.5 | 22 |
| 98 | Generation and control of frequency-dependent squeezing via Einstein–Podolsky–Rosen entanglement. Nature Photonics, 2020, 14, 223-226. | 15.6 | 22 |
| 99 | Mechanical characterisation of the TorPeDO: a low frequency gravitational force sensor. Classical and Quantum Gravity, 2017, 34, 135002. | 1.5 | 20 |
| 100 | LIGOâ $€$ ™s quantum response to squeezed states. Physical Review D, 2021, 104, . | 1.6 | 19 |
| 101 | Crosstalk reduction for multi-channel optical phase metrology. Optics Express, 2020, 28, 10400. | 1.7 | 19 |
| 102 | A squeezed light source operated under high vacuum. Scientific Reports, 2016, 5, 18052. | 1.6 | 18 |
| 103 | A neural network model of spiral–planar motion tuning in MSTd. Vision Research, 2003, 43, 577-595. | 0.7 | 15 |
| 104 | Demonstration of Displacement- and Frequency-Noise-Free Laser Interferometry Using Bidirectional Mach-Zehnder Interferometers. Physical Review Letters, 2007, 98, 141101. | 2.9 | 14 |
| 105 | Performance of the Virgo interferometer longitudinal control system during the second science run. Astroparticle Physics, 2011, 34, 521-527. | 1.9 | 13 |
| 106 | Internally sensed optical phased array. Optics Letters, 2013, 38, 1137. | 1.7 | 13 |
| 107 | Quantum enhanced kHz gravitational wave detector with internal squeezing. Classical and Quantum Gravity, 2020, 37, 07LT02. | 1.5 | 13 |
| 108 | Photonic solution to phase sensing and control for light-based interstellar propulsion. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 1477. | 0.9 | 13 |

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| 109 | 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. | 1.6 | 12 |
| 110 | Improving the robustness of the advanced LIGO detectors to earthquakes. Classical and Quantum Gravity, 2020, 37, 235007. | 1.5 | 11 |
| 111 | Coherent beam combining using a 2D internally sensed optical phased array. Applied Optics, 2014, 53, 4881. | 0.9 | 10 |
| 112 | High stability laser locking to an optical cavity using tilt locking. Optics Letters, 2021, 46, 3199. | 1.7 | 10 |
| 113 | Squeezed vacuum phase control at 2  î¼m. Optics Letters, 2019, 44, 5386. | 1.7 | 7 |
| 114 | Sensing and control of the advanced LIGO optical configuration. , 2004, , . | | 6 |
| 115 | Automatic Alignment system during the second science run of the Virgo interferometer. Astroparticle Physics, 2011, 34, 327-332. | 1.9 | 6 |
| 116 | Effects of transients in LIGO suspensions on searches for gravitational waves. Review of Scientific Instruments, 2017, 88, 124501. | 0.6 | 6 |
| 117 | Coherent Beam Combining Using an Internally Sensed Optical Phased Array of Frequency-Offset Phase Locked Lasers. Photonics, 2020, 7, 118. | 0.9 | 6 |
| 118 | Practical test mass and suspension configuration for a cryogenic kilohertz gravitational wave detector. Physical Review D, 2020, 102, . | 1.6 | 6 |
| 119 | Testing the GRACE follow-on triple mirror assembly. Classical and Quantum Gravity, 2014, 31, 195004. | 1.5 | 5 |
| 120 | Lock Acquisition Scheme For The Advanced LIGO Optical configuration. Journal of Physics: Conference Series, 2006, 32, 265-269. | 0.3 | 4 |
| 121 | Point Absorber Limits to Future Gravitational-Wave Detectors. Physical Review Letters, 2021, 127, 241102. | 2.9 | 3 |
| 122 | Control sideband generation for dual-recycled laser interferometric gravitational wave detectors. Classical and Quantum Gravity, 2006, 23, 5661-5666. | 1.5 | 2 |
| 123 | Matched template analysis of continuous wave laser for space debris ranging application. Advances in Space Research, 2022, 70, 1979-1987. | 1.2 | 2 |
| 124 | Optimal quantum noise cancellation with an entangled witness channel. Physical Review Research, 2021, 3, . | 1.3 | 1 |
| 125 | Demonstration of displacement-noise-free interferometry using bi-directional Mach–Zehnder interferometers. Classical and Quantum Gravity, 2008, 25, 114031. | 1.5 | 0 |
| 126 | Hierarchical optical phased array for large scale beam combining and atmospheric correction. , 2021, , | | 0 |

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| 127 | Research and Development for Third-Generation Gravitational Wave Detectors. , 2022, , 301-360. | | Ο |