Haixing Miao

List of Publications by Year in descending order

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Ηλιχινίς Μίλο

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Proposal for gravitational-wave detection beyond the standard quantum limit through EPRÂentanglement. Nature Physics, 2017, 13, 776-780. | 6.5 | 101 |
| 2 | Macroscopic Quantum Mechanics in a Classical Spacetime. Physical Review Letters, 2013, 110, 170401. | 2.9 | 100 |
| 3 | Standard Quantum Limit for Probing Mechanical Energy Quantization. Physical Review Letters, 2009, 103, 100402. | 2.9 | 88 |
| 4 | Preparing a Mechanical Oscillator in Non-Gaussian Quantum States. Physical Review Letters, 2010, 105, 070403. | 2.9 | 79 |
| 5 | Exploring the sensitivity of gravitational wave detectors to neutron star physics. Physical Review D, 2019, 99, . | 1.6 | 78 |
| 6 | Laser noise in cavity-optomechanical cooling and thermometry. New Journal of Physics, 2013, 15, 035007. | 1.2 | 76 |
| 7 | Enhancing the Bandwidth of Gravitational-Wave Detectors with Unstable Optomechanical Filters. Physical Review Letters, 2015, 115, 211104. | 2.9 | 65 |
| 8 | Quantum back-action in measurements of zero-point mechanical oscillations. Physical Review A, 2012, 86, . | 1.0 | 56 |
| 9 | Narrowing the Filter-Cavity Bandwidth in Gravitational-Wave Detectors via Optomechanical Interaction. Physical Review Letters, 2014, 113, 151102. | 2.9 | 51 |
| 10 | Towards the design of gravitational-wave detectors for probing neutron-star physics. Physical Review D, 2018, 98, . | 1.6 | 42 |
| 11 | Three-Mode Optoacoustic Parametric Amplifier: A Tool for Macroscopic Quantum Experiments. Physical Review Letters, 2009, 102, 243902. | 2.9 | 41 |
| 12 | Advanced quantum techniques for future gravitational-wave detectors. Living Reviews in Relativity, 2019, 22, 1. | 8.2 | 39 |
| 13 | Probing macroscopic quantum states with a sub-Heisenberg accuracy. Physical Review A, 2010, 81, . | 1.0 | 38 |
| 14 | Quantum correlations of light mediated by gravity. Physical Review A, 2020, 101, . | 1.0 | 34 |
| 15 | Open quantum dynamics of single-photon optomechanical devices. Physical Review A, 2013, 88, . | 1.0 | 33 |
| 16 | Towards the Fundamental Quantum Limit of Linear Measurements of Classical Signals. Physical Review Letters, 2017, 119, 050801. | 2.9 | 32 |
| 17 | Quantum limits of interferometer topologies for gravitational radiation detection. Classical and Quantum Gravity, 2014, 31, 165010. | 1.5 | 31 |
| 18 | Global feed-forward vibration isolation in a km scale interferometer. Classical and Quantum Gravity, 2012, 29, 215008. | 1.5 | 27 |

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|----|--|-----|-----------|
| 19 | Gravitational wave detectors with broadband high frequency sensitivity. Communications Physics, 2021, 4, . | 2.0 | 26 |
| 20 | Achieving ground state and enhancing optomechanical entanglement by recovering information. New Journal of Physics, 2010, 12, 083032. | 1.2 | 24 |
| 21 | Universal quantum entanglement between an oscillator and continuous fields. Physical Review A, 2010, 81, . | 1.0 | 23 |
| 22 | The next detectors for gravitational wave astronomy. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1. | 2.0 | 23 |
| 23 | Negative optical inertia for enhancing the sensitivity of future gravitational-wave detectors. Physical Review D, 2011, 83, . | 1.6 | 21 |
| 24 | Quantum Limit for Laser Interferometric Gravitational-Wave Detectors from Optical Dissipation. Physical Review X, 2019, 9, . | 2.8 | 21 |
| 25 | Multicolor cavity metrology. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2092. | 0.8 | 18 |
| 26 | Quantum-enhanced interferometry for axion searches. Physical Review D, 2020, 101, . | 1.6 | 17 |
| 27 | Signatures of the quantum nature of gravity in the differential motion of two masses. Quantum Science and Technology, 2021, 6, 045014. | 2.6 | 16 |
| 28 | Suppression of quantum-radiation-pressure noise in an optical spring. Physical Review A, 2013, 88, . | 1.0 | 15 |
| 29 | Broadband sensitivity enhancement of detuned dual-recycled Michelson interferometers with EPR entanglement. Physical Review D, 2017, 96, . | 1.6 | 15 |
| 30 | Converting the signal-recycling cavity into an unstable optomechanical filter to enhance the detection bandwidth of gravitational-wave detectors. Physical Review D, 2019, 99, . | 1.6 | 15 |
| 31 | Quantum noise of a white-light cavity using a double-pumped gain medium. Physical Review A, 2015, 92, . | 1.0 | 14 |
| 32 | Fundamental Quantum Limits of Multicarrier Optomechanical Sensors. Physical Review Letters, 2018, 121, 110505. | 2.9 | 14 |
| 33 | Increasing the sensitivity of future gravitational-wave detectors with double squeezed-input. Physical Review D, 2009, 80, . | 1.6 | 12 |
| 34 | Nonadiabatic elimination of auxiliary modes in continuous quantum measurements. Physical Review A, 2012, 85, . | 1.0 | 12 |
| 35 | Multi-spatial-mode effects in squeezed-light-enhanced interferometric gravitational wave detectors. Physical Review D, 2017, 96, . | 1.6 | 9 |
| 36 | Toward observing neutron star collapse with gravitational wave detectors. Physical Review D, 2021, 103, . | 1.6 | 9 |

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|----|--|-----|-----------|
| 37 | A six degree-of-freedom fused silica seismometer: designÂand tests of a metal prototype. Classical and Quantum Gravity, 2022, 39, 015006. | 1.5 | 9 |
| 38 | Enhancing interferometer sensitivity without sacrificing bandwidth and stability: Beyond single-mode and resolved-sideband approximation. Physical Review D, 2021, 103, . | 1.6 | 8 |
| 39 | A Broadband Signal Recycling Scheme for Approaching the Quantum Limit from Optical Losses. Galaxies, 2021, 9, 3. | 1.1 | 7 |
| 40 | Direct approach to realizing quantum filters for high-precision measurements. Physical Review A, 2021, 103, . | 1.0 | 6 |
| 41 | General quantum constraints on detector noise in continuous linear measurements. Physical Review A, 2017, 95, . | 1.0 | 5 |
| 42 | Enhanced Dynamic Casimir Effect in Temporally and Spatially Modulated Josephson Transmission Line. Laser and Photonics Reviews, 2019, 13, 1900164. | 4.4 | 5 |
| 43 | Broadband quantum noise reduction in future long baseline gravitational-wave detectors via EPR entanglement. Physical Review D, 2019, 100, . | 1.6 | 4 |
| 44 | Paired carriers as a way to reduce quantum noise of multicarrier gravitational-wave detectors. Physical Review D, 2015, 91, . | 1.6 | 3 |
| 45 | First-order perturbative Hamiltonian equations of motion for a point particle orbiting a Schwarzschild black hole. Physical Review D, 2014, 89, . | 1.6 | 2 |
| 46 | Sensitivity of intracavity filtering schemes for detecting gravitational waves. Physical Review D, 2014, 89, . | 1.6 | 2 |
| 47 | Enhancing high frequency sensitivity of gravitational wave detectors with a Sagnac interferometer. Physical Review D, 2021, 104, . | 1.6 | 2 |
| 48 | Three-mode opto-acoustic interactions in optical cavities: introducing the three-mode opto-acoustic parametric amplifier. Proceedings of SPIE, 2010, , . | 0.8 | 1 |
| 49 | Quantum squeezing schemes for heterodyne readout. Physical Review D, 2020, 101, . | 1.6 | 1 |
| 50 | The development of ground based gravitational wave astronomy and opportunities for Australia–China collaboration. International Journal of Modern Physics A, 2015, 30, 1545019. | 0.5 | 0 |
| 51 | Two-Carrier Scheme: Evading the 3ÂdB Quantum Penalty of Heterodyne Readout in Gravitational-Wave Detectors. Physical Review Letters, 2021, 126, 221301. | 2.9 | 0 |
| 52 | Modifying Input Optics: Double Squeezed-Input. , 2012, , 51-63. | | 0 |
| 53 | Achieving the Ground State and Enhancing Optomechanical Entanglement. , 2012, , 107-125. | | 0 |
| 54 | Universal Entanglement Between an Oscillator and Continuous Fields. , 2012, , 127-139. | | 0 |

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|----|--|----|-----------|
| 55 | Nonlinear Optomechanical System for Probing Mechanical Energy Quantization. , 2012, , 141-149. | | ο |
| 56 | State Preparation: Non-Gaussian Quantum State. , 2012, , 151-164. | | 0 |
| 57 | MQM With Three-Mode Optomechanical Interactions. , 2012, , 85-106. | | Ο |
| 58 | Probing Macroscopic Quantum States. , 2012, , 165-202. | | 0 |