# Atsushi Nishizawa

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 106<br>papers | 7,824<br>citations | 76196<br>40<br>h-index | 48187<br>88<br>g-index |
| 107<br>all docs | 107<br>docs citations | 107<br>times ranked | 5879<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Early warning of precessing neutron-star black hole binary mergers with the near-future gravitational-wave detectors. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3878-3884. | 1.6 | 4 |
| 2 | Search for scalar-tensor mixed polarization modes of gravitational waves. Physical Review D, 2022, 105, . | 1.6 | 10 |
| 3 | First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, . | 1.8 | 20 |
| 4 | The Current Status and Future Prospects of KAGRA, the Large-Scale Cryogenic Gravitational Wave Telescope Built in the Kamioka Underground. Galaxies, 2022, 10, 63. | 1.1 | 13 |
| 5 | Displacement-noise-free neutron interferometer for gravitational wave detection using a single Mach-Zehnder configuration. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 441, 128150. | 0.9 | 4 |
| 6 | Neutron displacement noise-free interferometer for gravitational-wave detection. Physical Review D, 2022, 105, . | 1.6 | 2 |
| 7 | Overview of KAGRA: Detector design and construction history. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 1.8 | 198 |
| 8 | Overview of KAGRA: KAGRA science. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 1.8 | 31 |
| 9 | Current status of space gravitational wave antenna DECIGO and B-DECIGO. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 1.8 | 150 |
| 10 | Overview of KAGRA: Calibration, detector characterization, physical environmental monitors, and the geophysics interferometer. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 1.8 | 66 |
| 11 | Pure polarization test of GW170814 and GW170817 using waveforms consistent with modified theories of gravity. Physical Review D, 2021, 103, . | 1.6 | 21 |
| 12 | Vibration isolation systems for the beam splitter and signal recycling mirrors of the KAGRA gravitational wave detector. Classical and Quantum Gravity, 2021, 38, 065011. | 1.5 | 7 |
| 13 | Radiative Cooling of the Thermally Isolated System in KAGRA Gravitational Wave Telescope. Journal of Physics: Conference Series, 2021, 1857, 012002. | 0.3 | 1 |
| 14 | Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910. Astrophysical Journal Letters, 2021, 913, L27. | 3.0 | 32 |
| 15 | Reduction of quantum noise using the quantum locking with an optical spring for gravitational wave detectors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 402, 127365. | 0.9 | 4 |
| 16 | Constraints on Cosmic Strings Using Data from the Third Advanced LIGOâ€"Virgo Observing Run. Physical Review Letters, 2021, 126, 241102. | 2.9 | 87 |
| 17 | Impacts of overlapping gravitational-wave signals on the parameter estimation: Toward the search for cosmological backgrounds. Physical Review D, 2021, 104, . | 1.6 | 17 |
| 18 | Early warning of precessing compact binary merger with third-generation gravitational-wave detectors. Physical Review D, 2021, 104, . | 1.6 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3. | 8.2 | 447 |
| 20 | Application of independent component analysis to the iKAGRA data. Progress of Theoretical and Experimental Physics, 2020, 2020, . | 1.8 | 7 |
| 21 | Prospects for improving the sensitivity of the cryogenic gravitational wave detector KAGRA. Physical Review D, 2020, 102, . | 1.6 | 12 |
| 22 | Cosmological evolution of viable models in the generalized scalar-tensor theory. Physical Review D, 2020, 102, . | 1.6 | 9 |
| 23 | Optimization of quantum noise by completing the square of multiple interferometer outputs in quantum locking for gravitational wave detectors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126626. | 0.9 | 12 |
| 24 | An arm length stabilization system for KAGRA and future gravitational-wave detectors. Classical and Quantum Gravity, 2020, 37, 035004. | 1.5 | 10 |
| 25 | An Early-warning System for Electromagnetic Follow-up of Gravitational-wave Events. Astrophysical Journal Letters, 2020, 905, L25. | 3.0 | 48 |
| 26 | Space gravitational-wave antennas DECIGO and B-DECIGO. International Journal of Modern Physics D, 2019, 28, 1845001. | 0.9 | 73 |
| 27 | Prospects for gravitational-wave polarization tests from compact binary mergers with future ground-based detectors. Physical Review D, 2019, 100, . | 1.6 | 19 |
| 28 | First cryogenic test operation of underground km-scale gravitational-wave observatory KAGRA. Classical and Quantum Gravity, 2019, 36, 165008. | 1.5 | 45 |
| 29 | Convergence of Fourier-domain templates for inspiraling eccentric compact binaries. Physical Review D, 2019, 100, . | 1.6 | 13 |
| 30 | Generalized framework for testing gravity with gravitational-wave propagation. III. Future prospect. Physical Review D, 2019, 99, . | 1.6 | 38 |
| 31 | Vibration isolation system with a compact damping system for power recycling mirrors of KAGRA. Classical and Quantum Gravity, 2019, 36, 095015. | 1.5 | 9 |
| 32 | Constraining extra gravitational wave polarizations with Advanced LIGO, Advanced Virgo, and KAGRA and upper bounds from GW170817. Physical Review D, 2019, 100, . | 1.6 | 26 |
| 33 | KAGRA: 2.5 generation interferometric gravitational wave detector. Nature Astronomy, 2019, 3, 35-40. | 4.2 | 331 |
| 34 | Cosmological test of gravity with gravitational waves. , 2019, , . | | 0 |
| 35 | Parity-violating gravity and GW170817. Physical Review D, 2018, 98, . | 1.6 | 54 |
| 36 | Generalized framework for testing gravity with gravitational-wave propagation. I. Formulation. Physical Review D, 2018, 97, . | 1.6 | 121 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Generalized framework for testing gravity with gravitational-wave propagation. II. Constraints on Horndeski theory. Physical Review D, 2018, 97, . | 1.6 | 113 |
| 38 | Particle swarm optimization of the sensitivity of a cryogenic gravitational wave detector. Physical Review D, 2018, 97, . | 1.6 | 15 |
| 39 | Polarization test of gravitational waves from compact binary coalescences. Physical Review D, 2018, 98, . | 1.6 | 40 |
| 40 | Constraining stellar binary black hole formation scenarios with<i>eLISA</i>eccentricity measurements. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4375-4380. | 1.6 | 85 |
| 41 | Measurement of Hubble constant with stellar-mass binary black holes. Physical Review D, 2017, 96, . | 1.6 | 23 |
| 42 | The status of DECIGO. Journal of Physics: Conference Series, 2017, 840, 012010. | 0.3 | 148 |
| 43 | Testing gravity with pulsar scintillation measurements. Physical Review D, 2017, 95, . | 1.6 | 4 |
| 44 | Search method for an emission line of a GW background. Journal of Physics: Conference Series, 2016, 716, 012013. | 0.3 | 1 |
| 45 | Measuring Gravitational-Wave Propagation Speed with Multimessenger Observations. Journal of Physics: Conference Series, 2016, 716, 012018. | 0.3 | 0 |
| 46 | Gravitational wave memory: A new approach to study modified gravity. Physical Review D, 2016, 94, . | 1.6 | 28 |
| 47 | Detecting black-hole binary clustering via the second-generation gravitational-wave detectors. Physical Review D, 2016, 94, . | 1.6 | 21 |
| 48 | eLISA eccentricity measurements as tracers of binary black hole formation. Physical Review D, 2016, 94, . | 1.6 | 115 |
| 49 | Constraining the propagation speed of gravitational waves with compact binaries at cosmological distances. Physical Review D, 2016, 93, . | 1.6 | 18 |
| 50 | Anisotropies of Gravitational-Wave Standard Sirens as a New Cosmological Probe without Redshift Information. Physical Review Letters, 2016, 116, 121302. | 2.9 | 42 |
| 51 | Measurement of Schumann Resonance at Kamioka. Journal of Physics: Conference Series, 2016, 716, 012020. | 0.3 | 8 |
| 52 | Weak-value amplification beyond the standard quantum limit in position measurements. Physical Review A, 2015, 92, . | 1.0 | 8 |
| 53 | Search for an emission line of a gravitational wave background. Physical Review D, 2015, 91, . | 1.6 | 4 |
| 54 | REHEATING AFTER f(R) INFLATION AND OBSERVATIONAL CONSTRAINTS. , 2015, , . | | 0 |

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|---|---|---|---|
| 55 | Gravitational waves: search results, data analysis and parameter estimation. General Relativity and Gravitation, 2015, 47, 11. | 0.7 | 4 |
| 56 | Characterization of the LIGO detectors during their sixth science run. Classical and Quantum Gravity, 2015, 32, 115012. | 1.5 | 1,029 |
| 57 | FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. Astrophysical Journal, Supplement Series, 2014, 211, 7. | 3.0 | 57 |
| 58 | Constraint on reheating after<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617 Td (stretchy="false">)</mml:m 89, . | 1.6 | 27 |
| 59 | Measuring speed of gravitational waves by observations of photons and neutrinos from compact binary mergers and supernovae. Physical Review D, 2014, 90, . | 1.6 | 56 |
| 60 | Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors. Physical Review Letters, 2014, 112, 131101. | 2.9 | 68 |
| 61 | GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. Astrophysical Journal, 2014, 785, 119. | 1.6 | 125 |
| 62 | Probing for massive stochastic gravitational-wave background with a detector network. Physical Review D, 2013, 88, . | 1.6 | 18 |
| 63 | Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. Nature Photonics, 2013, 7, 613-619. | 15.6 | 825 |
| 64 | Model-independent test of gravity with a network of ground-based gravitational-wave detectors. Physical Review D, 2013, 87, . | 1.6 | 49 |
| 65 | Beyond Concordance Cosmology with Magnification of Gravitational-Wave Standard Sirens. Physical Review Letters, 2013, 110, 151103. | 2.9 | 67 |
| 66 | Direct measurement of the positive acceleration of the universe and testing inhomogeneous models under gravitational wave cosmology. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 031-031. | 1.9 | 8 |
| 67 | Weak-value amplification in a shot-noise-limited interferometer. Physical Review A, 2012, 85, . | 1.0 | 36 |
| 68 | Cosmology with space-based gravitational-wave detectors: Dark energy and primordial gravitational waves. Physical Review D, 2012, 85, . | 1.6 | 69 |
| 69 | Probing the Inhomogeneous Universe with Gravitational Wave Cosmology. Journal of Physics: Conference Series, 2012, 363, 012056. | 0.3 | 6 |
| 70 | Gravitational-wave standard siren without redshift identification. Journal of Physics: Conference Series, 2012, 363, 012052. | 0.3 | 8 |
| 71 | Evaluation of weak measurements to all orders. Physical Review A, 2012, 85, . | 1.0 | 60 |
| 72 | Reheating after<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 52 Td (stretchy="false">)</mml:mo | 1.6 | 32 |

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|---|---|---|---|
| 73 | Tracing the redshift evolution of Hubble parameter with gravitational-wave standard sirens. Physical Review D, 2011, 83, . | 1.6 | 43 |
| 74 | SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. Astrophysical Journal Letters, 2011, 734, L35. | 3.0 | 55 |
| 75 | A gravitational wave observatory operating beyond the quantum shot-noise limit. Nature Physics, 2011, 7, 962-965. | 6.5 | 716 |
| 76 | The Japanese space gravitational wave antenna: DECIGO. Classical and Quantum Gravity, 2011, 28, 094011. | 1.5 | 456 |
| 77 | Noise cancellation properties of displacement noise free interferometer. Journal of Physics: Conference Series, 2010, 228, 012026. | 0.3 | 0 |
| 78 | 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 |
| 79 | FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. Astrophysical Journal, 2010, 722, 1504-1513. | 1.6 | 104 |
| 80 | SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. Astrophysical Journal, 2010, 713, 671-685. | 1.6 | 155 |
| 81 | Cosmological test of gravity with polarizations of stochastic gravitational waves around 0.1â€“1ÂHz. Physical Review D, 2010, 81, . | 1.6 | 61 |
| 82 | Measurement of angular antispring effect in optical cavity by radiation pressure. Physical Review D, 2010, 81, . | 1.6 | 14 |
| 83 | 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 |
| 84 | Development of a Displacement- and Frequency-Noise-Free Interferometer in a 3D Configuration for Gravitational Wave Detection. Physical Review Letters, 2009, 103, 171101. | 2.9 | 6 |
| 85 | Probing nontensorial polarizations of stochastic gravitational-wave backgrounds with ground-based laser interferometers. Physical Review D, 2009, 79, . | 1.6 | 144 |
| 86 | STACKED SEARCH FOR GRAVITATIONAL WAVES FROM THE 2006 SGR 1900+14 STORM. Astrophysical Journal, 2009, 701, L68-L74. | 1.6 | 45 |
| 87 | DECIGO: The Japanese space gravitational wave antenna. Journal of Physics: Conference Series, 2009, 154, 012040. | 0.3 | 30 |
| 88 | Laser-interferometric detectors for gravitational wave backgrounds at 100ÂMHz: Detector design and sensitivity. Physical Review D, 2008, 77, . | 1.6 | 70 |
| 89 | Demonstration of displacement-noise-free interferometry using bi-directional Machâ€“Zehnder interferometers. Classical and Quantum Gravity, 2008, 25, 114031. | 1.5 | 0 |
| 90 | First joint search for gravitational-wave bursts in LIGO and GEO 600 data. Classical and Quantum Gravity, 2008, 25, 245008. | 1.5 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Experimental investigation of a control scheme for a zero-detuning resonant sideband extraction interferometer for next-generation gravitational-wave detectors. Classical and Quantum Gravity, 2008, 25, 195008. | 1.5 | 5 |
| 92 | Optimal location of two laser-interferometric detectors for gravitational wave backgrounds at 100 MHz. Classical and Quantum Gravity, 2008, 25, 225011. | 1.5 | 8 |
| 93 | Search for a Stochastic Background of 100-MHz Gravitational Waves with Laser Interferometers. Physical Review Letters, 2008, 101, 101101. | 2.9 | 77 |
| 94 | Resonant Speed Meter for Gravitational-Wave Detection. Physical Review Letters, 2008, 101, 081101. | 2.9 | 5 |
| 95 | Experimental investigation of a control scheme for a tuned resonant sideband extraction interferometer for next-generation gravitational-wave detectors. Journal of Physics: Conference Series, 2008, 122, 012017. | 0.3 | 0 |
| 96 | Quantum noise in differential-type gravitational-wave interferometer and signal recycling. Journal of Physics: Conference Series, 2008, 122, 012019. | 0.3 | 0 |
| 97 | The Japanese space gravitational wave antenna; DECIGO. Journal of Physics: Conference Series, 2008, 120, 032004. | 0.3 | 34 |
| 98 | DECIGO pathfinder. Journal of Physics: Conference Series, 2008, 120, 032005. | 0.3 | 5 |
| 99 | A study for reduction of radiation pressure noise in gravitational wave detectors. Journal of Physics: Conference Series, 2008, 122, 012020. | 0.3 | 1 |
| 100 | Displacement noise free interferometory for gravitational wave detection. Journal of Physics: Conference Series, 2008, 120, 032006. | 0.3 | 0 |
| 101 | The experimental plan of displacement- and frequency-noise free laser interferometer. Journal of Physics: Conference Series, 2008, 122, 012022. | 0.3 | 0 |
| 102 | The Japanese space gravitational wave antenna - DECIGO. Journal of Physics: Conference Series, 2008, 122, 012006. | 0.3 | 46 |
| 103 | Development of a detector pair for very high frequency gravitational waves. Journal of Physics: Conference Series, 2008, 122, 012007. | 0.3 | 3 |
| 104 | Quantum noise in differential-type gravitational-wave interferometer and signal recycling. Physical Review D, 2007, 76, . | 1.6 | 3 |
| 105 | The Japanese space gravitational wave antennaâ€"DECIGO. Classical and Quantum Gravity, 2006, 23, S125-S131. | 1.5 | 388 |
| 106 | Gravitational Wave Physics and Astronomy in the nascent era. Progress of Theoretical and Experimental Physics, 0, , . | 1.8 | 3 |