# Kentaro Somiya

List of Publications by Year
in descending order

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| 180 | 15,329 | 20817 60 | 17105 122 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 184 | 184 | 184 | 6650 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Einstein Telescope: a third-generation gravitational wave observatory. Classical and Quantum Gravity, 2010, 27, 194002. | 4.0 | 1,211 |
| 2 | Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. Classical and Quantum Gravity, 2010, 27, 173001. | 4.0 | 956 |
| 3 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3. | 26.7 | 808 |
| 4 | Detector configuration of KAGRAâ€“the Japanese cryogenic gravitational-wave detector. Classical and Quantum Gravity, 2012, 29, 124007. | 4.0 | 726 |
| 5 | Interferometer design of the KAGRA gravitational wave detector. Physical Review D, 2013, 88, . | 4.7 | 722 |
| 6 | A gravitational wave observatory operating beyond the quantum shot-noise limit. Nature Physics, 2011, 7, 962-965. | 16.7 | 716 |
| 7 | Sensitivity studies for third-generation gravitational wave observatories. Classical and Quantum Gravity, 2011, 28, 094013. | 4.0 | 644 |
| 8 | The Japanese space gravitational wave antenna: DECIGO. Classical and Quantum Gravity, 2011, 28, 094011. | 4.0 | 456 |
| 9 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3. | 26.7 | 447 |
| 10 | The Japanese space gravitational wave antennaâ€”DECIGO. Classical and Quantum Gravity, 2006, 23, S125-S131. | 4.0 | 388 |
| 11 | Scientific objectives of Einstein Telescope. Classical and Quantum Gravity, 2012, 29, 124013. | 4.0 | 355 |
| 12 | KAGRA: 2.5 generation interferometric gravitational wave detector. Nature Astronomy, 2019, 3, 35-40. | 10.1 | 331 |
| 13 | An upper limit on the stochastic gravitational-wave background of cosmological origin. Nature, 2009, 460, 990-994. | 27.8 | 303 |
| 14 | The third generation of gravitational wave observatories and their science reach. Classical and Quantum Gravity, 2010, 27, 084007. | 4.0 | 287 |
| 15 | Stable Operation of a 300-m Laser Interferometer with Sufficient Sensitivity to Detect Gravitational-Wave Events within Our Galaxy. Physical Review Letters, 2001, 86, 3950-3954. | 7.8 | 255 |
| 16 | Overview of KAGRA: Detector design and construction history. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 6.6 | 198 |
| 17 | Search for gravitational waves from low mass compact binary coalescence in LIGOâ€™s sixth science run and Virgoâ€™s science runs 2 and 3. Physical Review D, 2012, 85, . | 4.7 | 185 |
| 18 | Beating the Spin-Down Limit on Gravitational Wave Emission from the Crab Pulsar. Astrophysical Journal, 2008, 683, L45-L49. | 4.5 | 160 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. Astrophysical Journal, 2010, 713, 671-685. | 4.5 | 155 |
| 20 | Current status of space gravitational wave antenna DECIGO and B-DECIGO. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 6.6 | 150 |
| 21 | The status of DECIGO. Journal of Physics: Conference Series, 2017, 840, 012010. | 0.4 | 148 |
| 22 | Implications for the Origin of GRB 070201 from LIGO Observations. Astrophysical Journal, 2008, 681, 1419-1430. | 4.5 | 143 |
| 23 | Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. Physical Review D, 2013, 88, . | 4.7 | 132 |
| 24 | Searches for periodic gravitational waves from unknown isolated sources and Scorpius X-1: Results from the second LIGO science run. Physical Review D, 2007, 76, . | 4.7 | 128 |
| 25 | Search for gravitational waves from binary inspirals in S3 and S4 LIGO data. Physical Review D, 2008, 77, . | 4.7 | 126 |
| 26 | Observation of a kilogram-scale oscillator near its quantum ground state. New Journal of Physics, 2009, 11, 073032. | 2.9 | 123 |
| 27 | Upper limits on gravitational wave emission from 78 radio pulsars. Physical Review D, 2007, 76, . | 4.7 | 121 |
| 28 | Searching for a Stochastic Background of Gravitational Waves with the Laser Interferometer Gravitational-Wave Observatory. Astrophysical Journal, 2007, 659, 918-930. | 4.5 | 120 |
| 29 | Search for gravitational waves from low mass binary coalescences in the first year of LIGOâ€™s S5 data. Physical Review D, 2009, 79, . | 4.7 | 120 |
| 30 | Calibration of the LIGO gravitational wave detectors in the fifth science run. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 223-240. | 1.6 | 120 |
| 31 | Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. Physical Review D, 2010, 82, . | 4.7 | 111 |
| 32 | All-sky search for periodic gravitational waves in LIGO S4 data. Physical Review D, 2008, 77, . | 4.7 | 110 |
| 33 | All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. Physical Review D, 2010, 81, . | 4.7 | 107 |
| 34 | All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. Physical Review D, 2012, 85, . | 4.7 | 107 |
| 35 | Search for gravitational waves from low mass compact binary coalescence in 186 days of LIGOâ€™s fifth science run. Physical Review D, 2009, 80, . | 4.7 | 105 |
| 36 | FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. Astrophysical Journal, 2010, 722, 1504-1513. | 4.5 | 104 |

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|---|---|---|---|
| 37 | 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. | 4.5 | 104 |
| 38 | Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data. Physical Review Letters, 2011, 107, 271102. | 7.8 | 94 |
| 39 | Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009â€“2010. Physical Review D, 2013, 87, . | 4.7 | 92 |
| 40 | Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. Physical Review D, 2013, 87, . | 4.7 | 91 |
| 41 | Upper limit map of a background of gravitational waves. Physical Review D, 2007, 76, . | 4.7 | 90 |
| 42 | 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. | 4.5 | 90 |
| 43 | BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. Astrophysical Journal, 2011, 737, 93. | 4.5 | 89 |
| 44 | Search for gravitational waves from binary black hole inspiral, merger, and ringdown. Physical Review D, 2011, 83, . | 4.7 | 85 |
| 45 | Implementation and testing of the first prompt search forÂgravitational wave transients with electromagnetic counterparts. Astronomy and Astrophysics, 2012, 539, A124. | 5.1 | 84 |
| 46 | All-Sky LIGO Search for Periodic Gravitational Waves in the Early Fifth-Science-Run Data. Physical Review Letters, 2009, 102, 111102. | 7.8 | 83 |
| 47 | Einstein@Home search for periodic gravitational waves in LIGO S4 data. Physical Review D, 2009, 79, . | 4.7 | 83 |
| 48 | Search for gravitational-wave bursts in the first year of the fifth LIGO science run. Physical Review D, 2009, 80, . | 4.7 | 79 |
| 49 | Search for gravitational-wave bursts in LIGO data from the fourth science run. Classical and Quantum Gravity, 2007, 24, 5343-5369. | 4.0 | 78 |
| 50 | Einstein@Home search for periodic gravitational waves in early S5 LIGO data. Physical Review D, 2009, 80, . | 4.7 | 78 |
| 51 | First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. Astronomy and Astrophysics, 2012, 541, A155. | 5.1 | 75 |
| 52 | The characterization of Virgo data and its impact on gravitational-wave searches. Classical and Quantum Gravity, 2012, 29, 155002. | 4.0 | 73 |
| 53 | Construction of KAGRA: an underground gravitational-wave observatory. Progress of Theoretical and Experimental Physics, 2018, 2018, . | 6.6 | 73 |
| 54 | Space gravitational-wave antennas DECIGO and B-DECIGO. International Journal of Modern Physics D, 2019, 28, 1845001. | 2.1 | 73 |

| # | Article | IF | Citations |
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| 55 | First search for gravitational waves from inspiraling compact binaries using TAMA300 data. Physical Review D, 2001, 63, . | 4.7 | 70 |
| 56 | Search for Gravitational-Wave Bursts from Soft Gamma Repeaters. Physical Review Letters, 2008, 101, 211102. | 7.8 | 69 |
| 57 | All-sky search for periodic gravitational waves in the full S5 LIGO data. Physical Review D, 2012, 85, . | 4.7 | 66 |
| 58 | Overview of KAGRA: Calibration, detector characterization, physical environmental monitors, and the geophysics interferometer. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 6.6 | 66 |
| 59 | SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. Astrophysical Journal, Supplement Series, 2012, 203, 28. | 7.7 | 62 |
| 60 | Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs. Physical Review D, 2008, 77, . | 4.7 | 60 |
| 61 | 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. | 4.5 | 60 |
| 62 | IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. Astrophysical Journal, 2012, 755, 2. | 4.5 | 60 |
| 63 | SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. Astrophysical Journal Letters, 2011, 734, L35. | 8.3 | 55 |
| 64 | Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals. Physical Review D, 2008, 78, . | 4.7 | 54 |
| 65 | Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar. Physical Review D, 2011, 83, . | 4.7 | 54 |
| 66 | Search for gravitational wave radiation associated with the pulsating tail of the SGR<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1806</mml:mn><mml:mo>â^'</mml:mo><mml:mn>20</mml:mn></mml:math>hyperflare of 27 December 2004 using LIGO. Physical Review D, 2007, 76, . | 4.7 | 51 |
| 67 | Measurement and subtraction of Schumann resonances at gravitational-wave interferometers. Physical Review D, 2018, 97, . | 4.7 | 50 |
| 68 | Upper limits from the LIGO and TAMA detectors on the rate of gravitational-wave bursts. Physical Review D, 2005, 72, . | 4.7 | 49 |
| 69 | Search for gravitational waves from intermediate mass binary black holes. Physical Review D, 2012, 85, . | 4.7 | 48 |
| 70 | The Japanese space gravitational wave antenna - DECIGO. Journal of Physics: Conference Series, 2008, 122, 012006. | 0.4 | 46 |
| 71 | First LIGO search for gravitational wave bursts from cosmic (super)strings. Physical Review D, 2009, 80, . | 4.7 | 45 |
| 72 | STACKED SEARCH FOR GRAVITATIONAL WAVES FROM THE 2006 SGR 1900+14 STORM. Astrophysical Journal, 2009, 701, L68-L74. | 4.5 | 45 |

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| 73 | First cryogenic test operation of underground km-scale gravitational-wave observatory KAGRA. Classical and Quantum Gravity, 2019, 36, 165008. | 4.0 | 45 |
| 74 | Present status of large-scale cryogenic gravitational wave telescope. Classical and Quantum Gravity, 2004, 21, S1161-S1172. | 4.0 | 43 |
| 75 | Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600â€“1000ÂHz. Physical Review D, 2012, 85, . | 4.7 | 43 |
| 76 | Joint LIGO and TAMA300 search for gravitational waves from inspiralling neutron star binaries. Physical Review D, 2006, 73, . | 4.7 | 40 |
| 77 | Double optical spring enhancement for gravitational-wave detectors. Physical Review D, 2008, 78, . | 4.7 | 39 |
| 78 | DECIGO and DECIGO pathfinder. Classical and Quantum Gravity, 2010, 27, 084010. | 4.0 | 39 |
| 79 | Mirror suspension system for the TAMA SAS. Classical and Quantum Gravity, 2002, 19, 1615-1621. | 4.0 | 38 |
| 80 | Search for gravitational wave ringdowns from perturbed black holes in LIGO S4 data. Physical Review D, 2009, 80, . | 4.7 | 38 |
| 81 | Probing macroscopic quantum states with a sub-Heisenberg accuracy. Physical Review A, 2010, 81, . | 2.5 | 38 |
| 82 | Quantum-state preparation and macroscopic entanglement in gravitational-wave detectors. Physical Review A, 2009, 80, . | 2.5 | 36 |
| 83 | Anatomy of the TAMA SAS seismic attenuation system. Classical and Quantum Gravity, 2002, 19, 1605-1614. | 4.0 | 35 |
| 84 | First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds. Physical Review D, 2007, 76, . | 4.7 | 35 |
| 85 | Frequency noise and intensity noise of next-generation gravitational-wave detectors with RF/DC readout schemes. Physical Review D, 2006, 73, . | 4.7 | 34 |
| 86 | The Japanese space gravitational wave antenna; DECIGO. Journal of Physics: Conference Series, 2008, 120, 032004. | 0.4 | 34 |
| 87 | Search for high frequency gravitational-wave bursts in the first calendar year of LIGOâ€™s fifth science run. Physical Review D, 2009, 80, . | 4.7 | 32 |
| 88 | A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 008-008. | 5.4 | 32 |
| 89 | Overview of KAGRA: KAGRA science. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 6.6 | 31 |
| 90 | DECIGO: The Japanese space gravitational wave antenna. Journal of Physics: Conference Series, 2009, 154, 012040. | 0.4 | 30 |

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| 91 | Interferometers for Displacement-Noise-Free Gravitational-Wave Detection. Physical Review Letters, 2006, 97, 151103. | 7.8 | 26 |
| 92 | Astrophysically triggered searches for gravitational waves: status and prospects. Classical and Quantum Gravity, 2008, 25, 114051. | 4.0 | 26 |
| 93 | The AEI 10 m prototype interferometer. Classical and Quantum Gravity, 2010, 27, 084023. | 4.0 | 25 |
| 94 | Observation results by the TAMA300 detector on gravitational wave bursts from stellar-core collapses. Physical Review D, 2005, 71, . | 4.7 | 24 |
| 95 | Estimation of losses in a 300Âm filter cavity and quantum noise reduction in the KAGRA gravitational-wave detector. Physical Review D, 2016, 93, . | 4.7 | 24 |
| 96 | Three Successive and Interacting Shock Waves Generated by a Solar Flare. Astrophysical Journal, 2008, 684, L45-L49. | 4.5 | 23 |
| 97 | Quantum noise of a Michelson-Sagnac interferometer with a translucent mechanical oscillator. Physical Review A, 2010, 81, . | 2.5 | 23 |
| 98 | First joint search for gravitational-wave bursts in LIGO and GEO 600 data. Classical and Quantum Gravity, 2008, 25, 245008. | 4.0 | 22 |
| 99 | Japanese large-scale interferometers. Classical and Quantum Gravity, 2002, 19, 1237-1245. | 4.0 | 21 |
| 100 | Current status of large-scale cryogenic gravitational wave telescope. Classical and Quantum Gravity, 2003, 20, S871-S884. | 4.0 | 21 |
| 101 | Local readout enhancement for detuned signal-recycling interferometers. Physical Review D, 2007, 76, . | 4.7 | 20 |
| 102 | First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, . | 6.6 | 20 |
| 103 | Coating thermal noise of a finite-size cylindrical mirror. Physical Review D, 2009, 79, . | 4.7 | 19 |
| 104 | DECIGO pathfinder. Classical and Quantum Gravity, 2009, 26, 094019. | 4.0 | 18 |
| 105 | Coincidence analysis to search for inspiraling compact binaries using TAMA300 and LISM data. Physical Review D, 2004, 70, . | 4.7 | 16 |
| 106 | A joint search for gravitational wave bursts with AURIGA and LIGO. Classical and Quantum Gravity, 2008, 25, 095004. | 4.0 | 16 |
| 107 | Particle swarm optimization of the sensitivity of a cryogenic gravitational wave detector. Physical Review D, 2018, 97, . | 4.7 | 15 |
| 108 | Direct approach for the fluctuation-dissipation theorem under nonequilibrium steady-state conditions. Physical Review D, 2018, 97, . | 4.7 | 15 |

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| 109 | Cryogenic suspension design for a kilometer-scale gravitational-wave detector. Classical and Quantum Gravity, 2021, 38, 085013. | 4.0 | 15 |
| 110 | Demonstration of Displacement- and Frequency-Noise-Free Laser Interferometry Using Bidirectional Mach-Zehnder Interferometers. Physical Review Letters, 2007, 98, 141101. | 7.8 | 14 |
| 111 | Parametric signal amplification to create a stiff optical bar. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 521-524. | 2.1 | 14 |
| 112 | Mirror actuation design for the interferometer control of the KAGRA gravitational wave telescope. Classical and Quantum Gravity, 2017, 34, 225001. | 4.0 | 14 |
| 113 | Design of the 10 m AEI prototype facility for interferometry studies. Applied Physics B: Lasers and Optics, 2012, 106, 551-557. | 2.2 | 13 |
| 114 | Measurement of optical losses in a high-finesse 300Âm filter cavity for broadband quantum noise reduction in gravitational-wave detectors. Physical Review D, 2018, 98, . | 4.7 | 13 |
| 115 | The Current Status and Future Prospects of KAGRA, the Large-Scale Cryogenic Gravitational Wave Telescope Built in the Kamioka Underground. Galaxies, 2022, 10, 63. | 3.0 | 13 |
| 116 | Reduction of coating thermal noise by using an etalon. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1363-1374. | 2.1 | 12 |
| 117 | Prospects for improving the sensitivity of the cryogenic gravitational wave detector KAGRA. Physical Review D, 2020, 102, . | 4.7 | 12 |
| 118 | The status of KAGRA underground cryogenic gravitational wave telescope. Journal of Physics: Conference Series, 2020, 1342, 012014. | 0.4 | 12 |
| 119 | Results of the search for inspiraling compact star binaries from TAMA300â€™s observation in 2000â€“2004. Physical Review D, 2006, 74, . | 4.7 | 11 |
| 120 | Reducing thermal noise in future gravitational wave detectors by employing Khalili etalons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 4147-4157. | 2.1 | 11 |
| 121 | Influence of nonuniformity in sapphire substrates for a gravitational wave telescope. Physical Review D, 2019, 100, . | 4.7 | 10 |
| 122 | An arm length stabilization system for KAGRA and future gravitational-wave detectors. Classical and Quantum Gravity, 2020, 37, 035004. | 4.0 | 10 |
| 123 | Development of a frequency-detuned interferometer as a prototype experiment for next-generation gravitational-wave detectors. Applied Optics, 2005, 44, 3179. | 2.1 | 9 |
| 124 | Diagonalization of the length sensing matrix of a dual recycled laser interferometer gravitational wave antenna. Physical Review D, 2007, 75, . | 4.7 | 9 |
| 125 | Vibration isolation system with a compact damping system for power recycling mirrors of KAGRA. Classical and Quantum Gravity, 2019, 36, 095015. | 4.0 | 9 |
| 126 | Measurement of Schumann Resonance at Kamioka. Journal of Physics: Conference Series, 2016, 716, 012020. | 0.4 | 8 |

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| 127 | Development of a suspended-mass RSE interferometer using third harmonic demodulation. Classical and Quantum Gravity, 2002, 19, 1555-1560. | 4.0 | 7 |
| 128 | Remarks on thermoelastic effects at low temperatures and quantum limits in displacement measurements. Physical Review D, 2010, 82, . | 4.7 | 7 |
| 129 | Application of independent component analysis to the iKAGRA data. Progress of Theoretical and Experimental Physics, 2020, 2020, . | 6.6 | 7 |
| 130 | Vibration isolation systems for the beam splitter and signal recycling mirrors of the KAGRA gravitational wave detector. Classical and Quantum Gravity, 2021, 38, 065011. | 4.0 | 7 |
| 131 | Photodetection method using unbalanced sidebands for squeezed quantum noise in a gravitational wave interferometer. Physical Review D, 2003, 67, . | 4.7 | 6 |
| 132 | Analysis methods for burst gravitational waves with TAMA data. Classical and Quantum Gravity, 2004, 21, S1679-S1684. | 4.0 | 6 |
| 133 | Development of a control scheme of homodyne detection for extracting ponderomotive squeezing from a Michelson interferometer. Journal of Physics: Conference Series, 2006, 32, 464-469. | 0.4 | 6 |
| 134 | Optical detector topology for third-generation gravitational wave observatories. General Relativity and Gravitation, 2011, 43, 537-567. | 2.0 | 6 |
| 135 | Length sensing and control strategies for the LCGT interferometer. Classical and Quantum Gravity, 2012, 29, 124008. | 4.0 | 6 |
| 136 | UNDERGROUND GRAVITATIONAL WAVE OBSERVATORIES: KAGRA AND ET. International Journal of Modern Physics D, 2013, 22, 1330010. | 2.1 | 6 |
| 137 | The Experimental plan of the 4m Resonant Sideband Extraction Prototype for The LCGT. Journal of Physics: Conference Series, 2006, 32, 380-385. | 0.4 | 5 |
| 138 | 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. | 4.0 | 5 |
| 139 | DECIGO pathfinder. Journal of Physics: Conference Series, 2008, 120, 032005. | 0.4 | 5 |
| 140 | Shot-noise-limited control-loop noise in an interferometer with multiple degrees of freedom. Applied Optics, 2010, 49, 4335. | 2.1 | 5 |
| 141 | Design study of the KAGRA output mode cleaner. Optical Review, 2015, 22, 149-152. | 2.0 | 5 |
| 142 | Isolation of gravitational waves from displacement noise and utility of a time-delay device. Journal of Physics: Conference Series, 2007, 66, 012053. | 0.4 | 4 |
| 143 | Utility investigation of artificial time delay in displacement-noise-free interferometers. Physical Review D, 2007, 76, . | 4.7 | 4 |
| 144 | Reduction and Possible Elimination of Coating Thermal Noise Using a Rigidly Controlled Cavity with a Quantum-Nondemolition Technique. Physical Review Letters, 2009, 102, 230801. | 7.8 | 4 |

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| 145 | Status of the AEI 10 m prototype. Classical and Quantum Gravity, 2012, 29, 145005. | 4.0 | 4 |
| 146 | Design study and prototype experiment of the KAGRA output mode-cleaner. Journal of Physics: Conference Series, 2016, 716, 012032. | 0.4 | 4 |
| 147 | Design and experimental demonstration of a laser modulation system for future gravitational-wave detectors. Classical and Quantum Gravity, 2019, 36, 205009. | 4.0 | 4 |
| 148 | Publisherâ€™s Note: All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run [Phys. Rev. D81, 102001 (2010)]. Physical Review D, 2012, 85, . | 4.7 | 3 |
| 149 | Localization of gravitational waves using machine learning. Physical Review D, 2022, 105, . | 4.7 | 3 |
| 150 | Prospects for improving the sensitivity of KAGRA gravitational wave detector. , 2022, , . | | 3 |
| 151 | Diagonalizing sensing matrix of broadband RSE. Journal of Physics: Conference Series, 2006, 32, 470-475. | 0.4 | 2 |
| 152 | Development of a signal-extraction scheme for resonant sideband extraction. Classical and Quantum Gravity, 2008, 25, 235013. | 4.0 | 2 |
| 153 | Designs of the frequency reference cavity for the AEI 10 m Prototype interferometer. Journal of Physics: Conference Series, 2010, 228, 012028. | 0.4 | 2 |
| 154 | Towards a Suspension Platform Interferometer for the AEI 10 m Prototype Interferometer. Journal of Physics: Conference Series, 2010, 228, 012027. | 0.4 | 2 |
| 155 | Publisherâ€™s Note: Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar [Phys. Rev. D83, 042001 (2011)]. Physical Review D, 2012, 85, . | 4.7 | 2 |
| 156 | Publisherâ€™s Note: Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1 [Phys. Rev. D82, 102001 (2010)]. Physical Review D, 2012, 85, . | 4.7 | 2 |
| 157 | Method to reduce excess noise of a detuned cavity for application in KAGRA. Classical and Quantum Gravity, 2014, 31, 095003. | 4.0 | 2 |
| 158 | Progress and challenges in advanced ground-based gravitational-wave detectors. General Relativity and Gravitation, 2014, 46, 1. | 2.0 | 2 |
| 159 | Concepts and research for future detectors. General Relativity and Gravitation, 2014, 46, 1. | 2.0 | 2 |
| 160 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1. | | 2 |
| 161 | The AEI 10 m Prototype Interferometer frequency control using the reference cavity and its angular control. Journal of Physics: Conference Series, 2012, 363, 012012. | 0.4 | 1 |
| 162 | Optical design and suspension system of the KAGRA output mode-cleaner. Journal of Physics: Conference Series, 2018, 957, 012009. | 0.4 | 1 |

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| 163 | Quantum noise reduction techniques in KAGRA. European Physical Journal D, 2020, 74, 1. | 1.3 | 1 |
| 164 | Radiative Cooling of the Thermally Isolated System in KAGRA Gravitational Wave Telescope. Journal of Physics: Conference Series, 2021, 1857, 012002. | 0.4 | 1 |
| 165 | Induced current damping for the suspension system of a gravitational-wave detector. Review of Scientific Instruments, 2002, 73, 3942-3945. | 1.3 | 0 |
| 166 | Power-recycled resonant sideband extraction interferometer with polarization detection. Applied Optics, 2005, 44, 3413. | 2.1 | 0 |
| 167 | Downselect of the signal extraction scheme for LCGT. Journal of Physics: Conference Series, 2006, 32, 424-431. | 0.4 | 0 |
| 168 | Publisherâ€™s Note: First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds [Phys. Rev. DPRVDAQ0556-282176, 022001 (2007)]. Physical Review D, 2007, 76, . | 4.7 | 0 |
| 169 | Publisherâ€™s Note: Upper limit map of a background of gravitational waves [Phys. Rev. D76, 082003 (2007)]. Physical Review D, 2008, 77, . | 4.7 | 0 |
| 170 | Publisherâ€™s Note: Upper limits on gravitational wave emission from 78 radio pulsars [Phys. Rev. D76, 042001 (2007)]. Physical Review D, 2008, 77, . | 4.7 | 0 |
| 171 | Demonstration of displacement-noise-free interferometry using bi-directional Machâ€“Zehnder interferometers. Classical and Quantum Gravity, 2008, 25, 114031. | 4.0 | 0 |
| 172 | Publisherâ€™s Note: All-sky search for periodic gravitational waves in LIGO S4 data [Phys. Rev. D77, 022001 (2008)]. Physical Review D, 2008, 77, . | 4.7 | 0 |
| 173 | Publisherâ€™s Note: First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds [Phys. Rev. D76, 022001 (2007)]. Physical Review D, 2008, 77, . | 4.7 | 0 |
| 174 | Displacement noise free interferometory for gravitational wave detection. Journal of Physics: Conference Series, 2008, 120, 032006. | 0.4 | 0 |
| 175 | The experimental plan of displacement- and frequency-noise free laser interferometer. Journal of Physics: Conference Series, 2008, 122, 012022. | 0.4 | 0 |
| 176 | Publisherâ€™s Note: Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar [Phys. Rev. D83, 042001 (2011)]. Physical Review D, 2011, 83, . | 4.7 | 0 |
| 177 | Publisherâ€™s Note: Search for gravitational waves from binary black hole inspiral, merger, and ringdown [Phys. Rev. D83, 122005 (2011)]. Physical Review D, 2012, 85, . | 4.7 | 0 |
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