

Ayaka Shoda

List of Publications by Year in descending order

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Version: 2024-02-01

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citations

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docs citations

33
times ranked

3324
citing authors

#	ARTICLE	IF	CITATIONS
1	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
2	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
3	Improving the stability of frequency-dependent squeezing with bichromatic control of filter cavity length, alignment, and incident beam pointing. Physical Review D, 2022, 105, .	4.7	2
4	Overview of KAGRA: Detector design and construction history. Progress of Theoretical and Experimental Physics, 2021, 2021, .	6.6	198
5	Overview of KAGRA: KAGRA science. Progress of Theoretical and Experimental Physics, 2021, 2021, .	6.6	31
6	Current status of space gravitational wave antenna DECIGO and B-DECIGO. Progress of Theoretical and Experimental Physics, 2021, 2021, .	6.6	150
7	Overview of KAGRA: Calibration, detector characterization, physical environmental monitors, and the geophysics interferometer. Progress of Theoretical and Experimental Physics, 2021, 2021, .	6.6	66
8	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
9	Cryogenic suspension design for a kilometer-scale gravitational-wave detector. Classical and Quantum Gravity, 2021, 38, 085013.	4.0	15
10	Torsion-Bar Antenna: A ground-based mid-frequency and low-frequency gravitational wave detector. International Journal of Modern Physics D, 2020, 29, 1940003.	2.1	14
11	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
12	Application of independent component analysis to the iKAGRA data. Progress of Theoretical and Experimental Physics, 2020, 2020, .	6.6	7
13	An arm length stabilization system for KAGRA and future gravitational-wave detectors. Classical and Quantum Gravity, 2020, 37, 035004.	4.0	10
14	Frequency-Dependent Squeezed Vacuum Source for Broadband Quantum Noise Reduction in Advanced Gravitational-Wave Detectors. Physical Review Letters, 2020, 124, 171101.	7.8	63
15	Compact integrated optical sensors and electromagnetic actuators for vibration isolation systems in the gravitational-wave detector KAGRA. Review of Scientific Instruments, 2020, 91, 115001.	1.3	5
16	Space gravitational-wave antennas DECIGO and B-DECIGO. International Journal of Modern Physics D, 2019, 28, 1845001.	2.1	73
17	First cryogenic test operation of underground km-scale gravitational-wave observatory KAGRA. Classical and Quantum Gravity, 2019, 36, 165008.	4.0	45
18	Vibration isolation system with a compact damping system for power recycling mirrors of KAGRA. Classical and Quantum Gravity, 2019, 36, 095015.	4.0	9

#	ARTICLE	IF	CITATIONS
19	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018, 21, 3.	26.7	808
20	Seismic cross-coupling noise in torsion pendulums. <i>Physical Review D</i> , 2018, 97, .	4.7	12
21	Construction of KAGRA: an underground gravitational-wave observatory. <i>Progress of Theoretical and Experimental Physics</i> , 2018, 2018, .	6.6	73
22	Mirror actuation design for the interferometer control of the KAGRA gravitational wave telescope. <i>Classical and Quantum Gravity</i> , 2017, 34, 225001.	4.0	14
23	Ground-based low-frequency gravitational-wave detector with multiple outputs. <i>Physical Review D</i> , 2017, 95, .	4.7	15
24	Search for a stochastic gravitational wave background at $1\text{--}5\text{ Hz}$ with a torsion-bar antenna. <i>Physical Review D</i> , 2016, 94, .	4.7	1
25	Characterization of the room temperature payload prototype for the cryogenic interferometric gravitational wave detector KAGRA. <i>Review of Scientific Instruments</i> , 2016, 87, 034501.	1.3	10
26	Active damping performance of the KAGRA seismic attenuation system prototype. <i>Journal of Physics: Conference Series</i> , 2016, 716, 012022.	0.4	3
27	All-sky coherent search for continuous gravitational waves in $6\text{--}7\text{ Hz}$ band with a torsion-bar antenna. <i>Progress of Theoretical and Experimental Physics</i> , 2016, 2016, 011F01.	6.6	1
28	Search for a stochastic gravitational-wave background using a pair of torsion-bar antennas. <i>Physical Review D</i> , 2014, 89, .	4.7	23
29	Improving parameter estimation accuracy with torsion-bar antennas. <i>Physical Review D</i> , 2014, 90, .	4.7	5
30	Progress and challenges in advanced ground-based gravitational-wave detectors. <i>General Relativity and Gravitation</i> , 2014, 46, 1.	2.0	2
31	Prospects for frequency comparison of Sr and Hg optical lattice clocks toward 10^{-18} uncertainties. , 2012, , .		0
32	Search for a Stochastic Gravitational-wave Background with Torsion-bar Antennas. <i>Journal of Physics: Conference Series</i> , 2012, 363, 012017.	0.4	1
33	The Japanese space gravitational wave antenna: DECIGO. <i>Classical and Quantum Gravity</i> , 2011, 28, 094011.	4.0	456