

Yutaka Shikano

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,135
citations

331670

21
h-index

223800

46
g-index

71
all docs

71
docs citations

71
times ranked

3570
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	Axion search with quantum nondemolition detection of magnons. Physical Review D, 2022, 105, .	4.7	9
4	Wide-field fluorescent nanodiamond spin measurements toward real-time large-area intracellular thermometry. Scientific Reports, 2021, 11, 4248.	3.3	24
5	Diamond quantum thermometry: from foundations to applications. Nanotechnology, 2021, 32, 482002.	2.6	39
6	Real-time nanodiamond thermometry probing in vivo thermogenic responses. Science Advances, 2020, 6, .	10.3	97
7	Concatenated Composite Pulses Applied to Liquid-State Nuclear Magnetic Resonance Spectroscopy. Scientific Reports, 2020, 10, 2126.	3.3	6
8	Real-time estimation of the optically detected magnetic resonance shift in diamond quantum thermometry toward biological applications. Physical Review Research, 2020, 2, .	3.6	18
9	Toward quantum phononics. AIP Conference Proceedings, 2020, , .	0.4	0
10	Unpredictable random number generator. AIP Conference Proceedings, 2020, , .	0.4	2
11	Ultrafast quantum-path interferometry revealing the generation process of coherent phonons. Physical Review B, 2019, 99, .	3.2	11
12	Frequency-Domain Linear Interferometer with Spectrally Shaped Photons. , 2019, , .		0
13	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
14	Observation of the linewidth broadening of single spins in diamond nanoparticles in aqueous fluid and its relation to the rotational Brownian motion. Scientific Reports, 2018, 8, 14773.	3.3	8
15	Coherent control theory and experiment of optical phonons in diamond. Scientific Reports, 2018, 8, 9609.	3.3	22
16	Construction of KAGRA: an underground gravitational-wave observatory. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	73
17	Quantification of concurrence via weak measurement. Physical Review A, 2017, 95, .	2.5	7
18	Toward tangible quantum nature. AIP Conference Proceedings, 2017, , .	0.4	0

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19	Highly excited exciton-polariton condensates. <i>Physical Review B</i> , 2017, 95, .	3.2	18
20	Generation of phase-squeezed optical pulses with large coherent amplitudes by post-selection of single photon and weak cross-Kerr non-linearity. <i>Quantum Studies: Mathematics and Foundations</i> , 2017, 4, 159-169.	0.9	6
21	How to Realize One-dimensional Discrete-time Quantum Walk by Dirac Particle. <i>Interdisciplinary Information Sciences</i> , 2017, 23, 33-37.	0.4	0
22	Ground-state cooling of a dispersively coupled optomechanical system in the unresolved sideband regime via a dissipatively coupled oscillator. <i>Physical Review A</i> , 2016, 94, .	2.5	10
23	Spectrally resolved detection in transient-reflectivity measurements of coherent optical phonons in diamond. <i>Physical Review B</i> , 2016, 94, .	3.2	22
24	High-energy side-peak emission of exciton-polariton condensates in high density regime. <i>Scientific Reports</i> , 2016, 6, 25655.	3.3	27
25	Advantages of nonclassical pointer states in postselected weak measurements. <i>Physical Review A</i> , 2015, 92, .	2.5	25
26	Influence of pulse width and detuning on coherent phonon generation. <i>Physical Review B</i> , 2015, 92, .	3.2	29
27	Operational derivation of Boltzmann distribution with Maxwell's demon model. <i>Scientific Reports</i> , 2015, 5, 17011.	3.3	4
28	Massless Dirac equation from Fibonacci discrete-time quantum walk. <i>Quantum Studies: Mathematics and Foundations</i> , 2015, 2, 243-252.	0.9	10
29	Post-selected von Neumann measurement with Hermite's Gaussian and Laguerre's Gaussian pointer states. <i>New Journal of Physics</i> , 2015, 17, 083029.	2.9	29
30	On signal amplification via weak measurement. , 2014, , .		2
31	Stereographical visualization of a polarization state using weak measurements with an optical-vortex beam. <i>Physical Review A</i> , 2014, 89, .	2.5	32
32	Aharonov's Bohm effect in the tunnelling of a quantum rotor in a linear Paul trap. <i>Nature Communications</i> , 2014, 5, 3868.	12.8	48
33	Discrete-time quantum walk with feed-forward quantum coin. <i>Scientific Reports</i> , 2014, 4, 4427.	3.3	41
34	<I>A Special Issue on</I> Theoretical and Mathematical Aspects of Discrete Time Quantum Walks. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 1555-1556.	0.4	0
35	Discrete-time quantum walk with nitrogen-vacancy centers in diamond coupled to a superconducting flux qubit. <i>Physical Review A</i> , 2013, 88, .	2.5	12
36	New lasing from exciton-polariton condensates in high excitation regime. , 2013, , .		0

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37	Survival Probability in a Quantum Walk on a One-Dimensional Lattice with Partially Absorbing Traps. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1596-1600.	0.4	2
38	Temperature Dependence of Highly Excited Exciton Polaritons in Semiconductor Microcavities. Journal of the Physical Society of Japan, 2013, 82, 084709.	1.6	18
39	Reply to "Comment on "Optimal probe wave function of weak-value amplification". Physical Review A, 2013, 87, .	2.5	4
40	From Discrete Time Quantum Walk to Continuous Time Quantum Walk in Limit Distribution. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1558-1570.	0.4	41
41	COUNTER-FACTUAL PHENOMENON IN QUANTUM MECHANICS. QP-PQ, Quantum Probability and White Noise Analysis, 2013, , 463-472.	0.1	0
42	The counterfactual process in weak values. Physica Scripta, 2012, T151, 014015.	2.5	2
43	Extracting joint weak values from two-dimensional spatial displacements. Physical Review A, 2012, 86, .	2.5	25
44	The discrete-time quantum walk as a stochastic process in quantum mechanics. Physica Scripta, 2012, T151, 014016.	2.5	2
45	Special issue on quantum walks. Quantum Information Processing, 2012, 11, 1013-1014.	2.2	1
46	Optimal probe wave function of weak-value amplification. Physical Review A, 2012, 85, .	2.5	56
47	Estimation of spin-spin interaction by weak measurement scheme. Europhysics Letters, 2011, 96, 40002.	2.0	14
48	Quantum mechanics of time travel through post-selected teleportation. Physical Review D, 2011, 84, .	4.7	69
49	Survival probability in a one-dimensional quantum walk on a trapped lattice. New Journal of Physics, 2011, 13, 033037.	2.9	19
50	Weak Value Theory. , 2011, , .		1
51	Boundary Conditions in One-dimensional Tunneling Junction. Journal of Physics: Conference Series, 2011, 302, 012044.	0.4	3
52	On detecting the quantum correlations in the early universe. Journal of Physics: Conference Series, 2011, 302, 012063.	0.4	0
53	Differences between Quantum Walks and Classical Random Walks in Limit Distributions. , 2011, , .		3
54	Closed Timelike Curves via Postselection: Theory and Experimental Test of Consistency. Physical Review Letters, 2011, 106, 040403.	7.8	104

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55	Detection and manipulation of single spin of nitrogen vacancy center in diamond toward application of weak measurement. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 761-765.	2.7	11
56	Framework of weak measurement with noise. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 776-778.	2.7	8
57	Maxwell's demon and data compression. <i>Physical Review E</i> , 2011, 84, 061117.	2.1	12
58	Notes on Inhomogeneous Quantum Walks. , 2011, , .		5
59	Hyperfine Interaction Estimation in Nitrogen Vacancy Center in Diamond using Weak Values. , 2011, , .		2
60	Crossovers induced by discrete-time quantum walks. <i>Quantum Information and Computation</i> , 2011, 11, 741-760.	0.3	10
61	Emergence of randomness and arrow of time in quantum walks. <i>Physical Review A</i> , 2010, 81, .	2.5	28
62	Strange weak values. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 385307.	2.1	63
63	Role of a phase factor in the boundary condition of a one-dimensional junction. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 354010.	2.1	6
64	Localization and fractality in inhomogeneous quantum walks with self-duality. <i>Physical Review E</i> , 2010, 82, 031122.	2.1	96
65	Weak values with decoherence. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 025304.	2.1	45
66	Optimal Covariant Measurement of Momentum on a Half Line. , 2009, , .		1
67	Optimal covariant measurement of momentum on a half line in quantum mechanics. <i>Journal of Mathematical Physics</i> , 2008, 49, .	1.1	6
68	Detecting Temporal Correlation via Quantum Random Number Generation. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS, 0, 315, 18-25.	0.8	4