

# Yutaka Shikano

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8190064/publications.pdf>

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	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
2	Closed Timelike Curves via Postselection: Theory and Experimental Test of Consistency. <i>Physical Review Letters</i> , 2011, 106, 040403.	7.8	104
3	Real-time nanodiamond thermometry probing in vivo thermogenic responses. <i>Science Advances</i> , 2020, 6, .	10.3	97
4	Localization and fractality in inhomogeneous quantum walks with self-duality. <i>Physical Review E</i> , 2010, 82, 031122.	2.1	96
5	Construction of KAGRA: an underground gravitational-wave observatory. <i>Progress of Theoretical and Experimental Physics</i> , 2018, 2018, .	6.6	73
6	Quantum mechanics of time travel through post-selected teleportation. <i>Physical Review D</i> , 2011, 84, .	4.7	69
7	Strange weak values. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 385307.	2.1	63
8	Optimal probe wave function of weak-value amplification. <i>Physical Review A</i> , 2012, 85, .	2.5	56
9	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
10	Weak values with decoherence. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 025304.	2.1	45
11	From Discrete Time Quantum Walk to Continuous Time Quantum Walk in Limit Distribution. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 1558-1570.	0.4	41
12	Discrete-time quantum walk with feed-forward quantum coin. <i>Scientific Reports</i> , 2014, 4, 4427.	3.3	41
13	Diamond quantum thermometry: from foundations to applications. <i>Nanotechnology</i> , 2021, 32, 482002.	2.6	39
14	Stereographical visualization of a polarization state using weak measurements with an optical-vortex beam. <i>Physical Review A</i> , 2014, 89, .	2.5	32
15	Influence of pulse width and detuning on coherent phonon generation. <i>Physical Review B</i> , 2015, 92, .	3.2	29
16	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
17	Emergence of randomness and arrow of time in quantum walks. <i>Physical Review A</i> , 2010, 81, .	2.5	28
18	High-energy side-peak emission of exciton-polariton condensates in high density regime. <i>Scientific Reports</i> , 2016, 6, 25655.	3.3	27

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19	Extracting joint weak values from two-dimensional spatial displacements. <i>Physical Review A</i> , 2012, 86, .	2.5	25
20	Advantages of nonclassical pointer states in postselected weak measurements. <i>Physical Review A</i> , 2015, 92, .	2.5	25
21	Wide-field fluorescent nanodiamond spin measurements toward real-time large-area intracellular thermometry. <i>Scientific Reports</i> , 2021, 11, 4248.	3.3	24
22	Spectrally resolved detection in transient-reflectivity measurements of coherent optical phonons in diamond. <i>Physical Review B</i> , 2016, 94, .	3.2	22
23	Coherent control theory and experiment of optical phonons in diamond. <i>Scientific Reports</i> , 2018, 8, 9609.	3.3	22
24	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	6.6	20
25	Survival probability in a one-dimensional quantum walk on a trapped lattice. <i>New Journal of Physics</i> , 2011, 13, 033037.	2.9	19
26	Temperature Dependence of Highly Excited Exciton Polaritons in Semiconductor Microcavities. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 084709.	1.6	18
27	Highly excited exciton-polariton condensates. <i>Physical Review B</i> , 2017, 95, .	3.2	18
28	Real-time estimation of the optically detected magnetic resonance shift in diamond quantum thermometry toward biological applications. <i>Physical Review Research</i> , 2020, 2, .	3.6	18
29	Estimation of spin-spin interaction by weak measurement scheme. <i>Europhysics Letters</i> , 2011, 96, 40002.	2.0	14
30	The Current Status and Future Prospects of KAGRA, the Large-Scale Cryogenic Gravitational Wave Telescope Built in the Kamioka Underground. <i>Galaxies</i> , 2022, 10, 63.	3.0	13
31	Maxwell's demon and data compression. <i>Physical Review E</i> , 2011, 84, 061117.	2.1	12
32	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
33	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
34	Ultrafast quantum-path interferometry revealing the generation process of coherent phonons. <i>Physical Review B</i> , 2019, 99, .	3.2	11
35	Massless Dirac equation from Fibonacci discrete-time quantum walk. <i>Quantum Studies: Mathematics and Foundations</i> , 2015, 2, 243-252.	0.9	10
36	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

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37	Crossovers induced by discrete-time quantum walks. <i>Quantum Information and Computation</i> , 2011, 11, 741-760.	0.3	10
38	Axion search with quantum nondemolition detection of magnons. <i>Physical Review D</i> , 2022, 105, .	4.7	9
39	Framework of weak measurement with noise. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 776-778.	2.7	8
40	Observation of the linewidth broadening of single spins in diamond nanoparticles in aqueous fluid and its relation to the rotational Brownian motion. <i>Scientific Reports</i> , 2018, 8, 14773.	3.3	8
41	Quantification of concurrence via weak measurement. <i>Physical Review A</i> , 2017, 95, .	2.5	7
42	Optimal covariant measurement of momentum on a half line in quantum mechanics. <i>Journal of Mathematical Physics</i> , 2008, 49, .	1.1	6
43	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
44	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
45	Concatenated Composite Pulses Applied to Liquid-State Nuclear Magnetic Resonance Spectroscopy. <i>Scientific Reports</i> , 2020, 10, 2126.	3.3	6
46	Notes on Inhomogeneous Quantum Walks. , 2011, , .		5
47	Reply to "Comment on "Optimal probe wave function of weak-value amplification". <i>Physical Review A</i> , 2013, 87, .	2.5	4
48	Operational derivation of Boltzmann distribution with Maxwell's demon model. <i>Scientific Reports</i> , 2015, 5, 17011.	3.3	4
49	Detecting Temporal Correlation via Quantum Random Number Generation. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> , 0, 315, 18-25.	0.8	4
50	Boundary Conditions in One-dimensional Tunneling Junction. <i>Journal of Physics: Conference Series</i> , 2011, 302, 012044.	0.4	3
51	Differences between Quantum Walks and Classical Random Walks in Limit Distributions. , 2011, , .		3
52	Hyperfine Interaction Estimation in Nitrogen Vacancy Center in Diamond using Weak Values. , 2011, , .		2
53	The counterfactual process in weak values. <i>Physica Scripta</i> , 2012, T151, 014015.	2.5	2
54	The discrete-time quantum walk as a stochastic process in quantum mechanics. <i>Physica Scripta</i> , 2012, T151, 014016.	2.5	2

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55	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
56	On signal amplification via weak measurement. , 2014, , .		2
57	Unpredictable random number generator. AIP Conference Proceedings, 2020, , .	0.4	2
58	Optimal Covariant Measurement of Momentum on a Half Line. , 2009, , .		1
59	Weak Value Theory. , 2011, , .		1
60	Special issue on quantum walks. Quantum Information Processing, 2012, 11, 1013-1014.	2.2	1
61	On detecting the quantum correlations in the early universe. Journal of Physics: Conference Series, 2011, 302, 012063.	0.4	0
62	<I>A Special Issue on</I> Theoretical and Mathematical Aspects of Discrete Time Quantum Walks. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1555-1556.	0.4	0
63	New lasing from exciton-polariton condensates in high excitation regime. , 2013, , .		0
64	Toward tangible quantum nature. AIP Conference Proceedings, 2017, , .	0.4	0
65	Frequency-Domain Linear Interferometer with Spectrally Shaped Photons. , 2019, , .		0
66	COUNTER-FACTUAL PHENOMENON IN QUANTUM MECHANICS. QP-PQ, Quantum Probability and White Noise Analysis, 2013, , 463-472.	0.1	0
67	How to Realize One-dimensional Discrete-time Quantum Walk by Dirac Particle. Interdisciplinary Information Sciences, 2017, 23, 33-37.	0.4	0
68	Toward quantum phononics. AIP Conference Proceedings, 2020, , .	0.4	0