

# Hiromichi Nakazato

## List of Publications by Year in descending order

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79  
papers

1,175  
citations

430874

18  
h-index

414414

32  
g-index

79  
all docs

79  
docs citations

79  
times ranked

629  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized adiabatic impulse approximation. <i>Physical Review A</i> , 2022, 105, .	2.5	7
2	Exact master equation for an open Jaynes-Cummings system. <i>Annals of Physics</i> , 2022, 441, 168890.	2.8	0
3	Eternal adiabaticity in quantum evolution. <i>Physical Review A</i> , 2021, 103, .	2.5	9
4	Kolmogorov-Arnold-Moser Stability for Conserved Quantities in Finite-Dimensional Quantum Systems. <i>Physical Review Letters</i> , 2021, 126, 150401.	7.8	5
5	Analytic approach to dynamics of the resonant and off-resonant Jaynes-Cummings systems with cavity losses. <i>Physical Review A</i> , 2021, 103, .	2.5	6
6	Bounds on Mixed State Entanglement. <i>Entropy</i> , 2020, 22, 62.	2.2	4
7	Experimental Investigation of Quantum Decay via Integrated Photonics. <i>Proceedings (mdpi)</i> , 2019, 12, .	0.2	1
8	Experimental Investigation of Quantum Decay at Short, Intermediate, and Long Times via Integrated Photonics. <i>Physical Review Letters</i> , 2019, 122, 130401.	7.8	30
9	Observation of Quantum Decay Dynamics in an Integrated Photonic Chip. , 2019, , .		0
10	Analytic estimation of transition between instantaneous eigenstates of quantum two-level system. <i>Scientific Reports</i> , 2018, 8, 17433.	3.3	11
11	Classes of Exactly Solvable Generalized Semi-Classical Rabi Systems. <i>Annalen Der Physik</i> , 2018, 530, 1800198.	2.4	23
12	Can Decay Be Ascribed to Classical Noise?. <i>Open Systems and Information Dynamics</i> , 2017, 24, 1750001.	1.2	10
13	Synchronizing quantum harmonic oscillators through two-level systems. <i>Physical Review A</i> , 2017, 96, .	2.5	19
14	Lindbladian purification. <i>Quantum Science and Technology</i> , 2017, 2, 024001.	5.8	1
15	Photon distribution at the output of a beam splitter for imbalanced input states. <i>Physical Review A</i> , 2016, 93, .	2.5	6
16	Universal control induced by noise. <i>Physical Review A</i> , 2016, 93, .	2.5	11
17	Hamiltonian purification. <i>Journal of Mathematical Physics</i> , 2015, 56, .	1.1	6
18	Measurement of Purity, the Simplest Nonlinear Functional of the Density Matrix. <i>Open Systems and Information Dynamics</i> , 2014, 21, 1440009.	1.2	1

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19	Phase randomization and typicality in the interference of two condensates. International Journal of Quantum Information, 2014, 12, 1560019.	1.1	3
20	Determining eigenvalues of a density matrix with minimal information in a single experimental setting. Physical Review A, 2014, 89, .	2.5	17
21	Exponential rise of dynamical complexity in quantum computing through projections. Nature Communications, 2014, 5, 5173.	12.8	38
22	Interference in a two-mode Bose system as a typical phenomenon. Physical Review A, 2014, 89, .	2.5	4
23	A controlled-NOT gate in a chain of qubits embedded in a spin field-effect transistor and its process tomography. European Physical Journal B, 2013, 86, 1.	1.5	0
24	Non-Abelian phases from quantum Zeno dynamics. Physical Review A, 2013, 88, .	2.5	12
25	Distillation by repeated measurements: Continuous spectrum case. Physical Review A, 2010, 82, .	2.5	3
26	Spectral resolution of the Liouvillian of the Lindblad master equation for a harmonic oscillator. Journal of Mathematical Physics, 2010, 51, 072107.	1.1	16
27	Entanglement Generation by a Three-Dimensional Qubit Scattering: Concurrence vs. Path (In)Distinguishability. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 17-25.	0.3	1
28	Entanglement of electrons field-emitted from a superconductor. Physical Review B, 2009, 79, .	3.2	6
29	State tomography of a chain of qubits embedded in a spin field-effect transistor via repeated spin-blockade measurements on the edge qubit. Physical Review B, 2009, 79, .	3.2	4
30	Entanglement generation by qubit scattering in three dimensions. Physical Review A, 2009, 80, .	2.5	17
31	State tomography of a qubit through scattering of a probe qubit. Physical Review A, 2009, 80, .	2.5	8
32	Extraction of a squeezed state in a field mode via repeated measurements on an auxiliary quantum particle. Physical Review A, 2009, 80, .	2.5	2
33	ANALYSIS OF CRITICAL SHORT-TIME LANGEVIN DYNAMICS IN TWO-DIMENSIONAL $\bar{\mu}$ -4 THEORY ON THE BASIS OF A HIGHER-ORDER ALGORITHM. International Journal of Modern Physics C, 2009, 20, 735-745.	1.7	1
34	Thwarted dynamics by partial projective measurements. Journal of Russian Laser Research, 2009, 30, 451-457.	0.6	1
35	Efficient generation of a maximally entangled state by repeated on- and off-resonant scattering of ancilla qubits. New Journal of Physics, 2009, 11, 123027.	2.9	19
36	Estimation of the repeatedly projected reduced density matrix under decoherence. Physical Review A, 2008, 77, .	2.5	8

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37	Resonant scattering can enhance the degree of entanglement. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 297-308.	2.1	40
38	Diffusion and transfer of entanglement in an array of inductively coupled flux qubits. Physical Review B, 2007, 76, .	3.2	6
39	A PURIFICATION SCHEME AND ENTANGLEMENT DISTILLATIONS. , 2006, , .		0
40	Preparation of quantum state through Zeno-like measurements. Journal of Physics: Conference Series, 2006, 31, 183-184.	0.4	0
41	Generation of multipartite entangled states in Josephson architectures. Physical Review B, 2006, 74, .	3.2	25
42	CONTROL OF DECOHERENCE VIA QUANTUM ZENO SUBSPACES. International Journal of Modern Physics B, 2006, 20, 1408-1420.	2.0	2
43	Quantum entanglement formation by repeated spin blockade measurements in a spin field-effect transistor structure embedded with quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 674-678.	2.7	8
44	Distillation of entanglement between distant systems by repeated measurements on an entanglement mediator. Physical Review A, 2004, 70, .	2.5	25
45	Preparation and entanglement purification of qubits through Zeno-like measurements. Physical Review A, 2004, 70, .	2.5	52
46	Purification through Zeno-Like Measurements. Physical Review Letters, 2003, 90, 060401.	7.8	89
47	Optimization of a neutron-spin test of the quantum Zeno effect. Physical Review A, 2003, 68, .	2.5	7
48	Purification of Quantum State Through Zeno-Like Measurements. Journal of the Physical Society of Japan, 2003, 72, 34-37.	1.6	3
49	Reflection and transmission in a neutron-spin test of the quantum Zeno effect. Physical Review A, 1999, 60, 3448-3460.	2.5	16
50	Two-Level System with a Noisy Hamiltonian. Journal of Superconductivity and Novel Magnetism, 1999, 12, 843-849.	0.5	11
51	Infinitely frequent measurements and quantum Zeno effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 239, 333-338.	2.1	20
52	Temporal Behavior of Quantum Systems and Quantum Zeno Effect. , 1998, , 337-344.		0
53	Time Symmetry and Quantum Dephasing. , 1998, , 315-323.		0
54	Time development of a wave packet and the time delay. Foundations of Physics, 1997, 27, 1709-1723.	1.3	4

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55	Emergence of a Wiener process as a result of the quantum mechanical interaction with a macroscopic medium. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 245, 189-211.	2.6	8
56	TEMPORAL BEHAVIOR OF QUANTUM MECHANICAL SYSTEMS. <i>International Journal of Modern Physics B</i> , 1996, 10, 247-295.	2.0	180
57	Quantum dephasing by chaos. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 222, 130-136.	2.1	4
58	Understanding the quantum Zeno effect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 217, 203-208.	2.1	49
59	Dissipative behavior of a quantum system interacting with a macroscopic medium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 223, 320-326.	2.1	2
60	On the quantum Zeno effect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 199, 27-32.	2.1	47
61	ON THE SHORT-TIME BEHAVIOR OF QUANTUM MECHANICAL SYSTEMS. <i>Modern Physics Letters A</i> , 1995, 10, 3103-3111.	1.2	6
62	Exponential Behavior of a Quantum System in a Macroscopic Medium. <i>Physical Review Letters</i> , 1994, 73, 1063-1066.	7.8	14
63	Analytical solution to the Fokker-Planck equation with a bottomless action. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 333, 98-103.	4.1	1
64	A coherent understanding of solvable models for quantum measurement processes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 192, 169-174.	2.1	4
65	Macroscopic limit of a solvable dynamical model. <i>Physical Review A</i> , 1993, 48, 1066-1081.	2.5	33
66	Solvable dynamical model for a quantum measurement process. <i>Physical Review Letters</i> , 1993, 70, 1-4.	7.8	56
67	General structure of correlation functions in stochastic quantization. <i>Physical Review D</i> , 1993, 48, 5838-5849.	4.7	1
68	Spectrum of the Fokker-Planck Hamiltonian in Minkowski Space. <i>Progress of Theoretical Physics Supplement</i> , 1993, 111, 349-371.	0.1	1
69	Loss of quantum-mechanical coherence in a measurement process. <i>Physical Review A</i> , 1992, 45, 4355-4366.	2.5	12
70	Blending two alternative approaches to quantum measurement. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 156, 386-390.	2.1	10
71	Spectral representation in stochastic quantization. <i>Physical Review D</i> , 1990, 42, 1166-1178.	4.7	1
72	A Nonperturbative Approach to the Spectrum of a Nonhermite Fokker-Planck Hamiltonian. <i>Progress of Theoretical Physics</i> , 1989, 82, 1201-1208.	2.0	2

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73	Application of Minkowski Stochastic Quantization Method to Vector Field Theory. Progress of Theoretical Physics, 1987, 77, 802-807.	2.0	3
74	Thermal Equilibrium in Minkowski Stochastic Quantization. Progress of Theoretical Physics, 1987, 77, 20-25.	2.0	14
75	Minkowski stochastic quantization. Physical Review D, 1986, 34, 492-496.	4.7	24
76	Stochastic Quantization Method of Fermion Fields. Progress of Theoretical Physics, 1983, 69, 1600-1616.	2.0	37
77	Generalized Adiabatic Theorem and Strong-Coupling Limits. Quantum - the Open Journal for Quantum Science, 0, 3, 152.	0.0	32
78	Quantum Zeno Dynamics from General Quantum Operations. Quantum - the Open Journal for Quantum Science, 0, 4, 289.	0.0	16
79	Unstable vacuum and fermion total reflection by the Klein step. Progress of Theoretical and Experimental Physics, 0, , .	6.6	0