

# Naoki Yamamoto

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,191  
citations

361413

20  
h-index

414414

32  
g-index

58  
all docs

58  
docs citations

58  
times ranked

592  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amplitude estimation without phase estimation. Quantum Information Processing, 2020, 19, 1.	2.2	103
2	Experimental Demonstration of Coherent Feedback Control on Optical Field Squeezing. IEEE Transactions on Automatic Control, 2012, 57, 2045-2050.	5.7	84
3	Coherent versus Measurement Feedback: Linear Systems Theory for Quantum Information. Physical Review X, 2014, 4, .	8.9	65
4	Dissipation-induced pure Gaussian state. Physical Review A, 2012, 85, .	2.5	61
5	Robust observer for uncertain linear quantum systems. Physical Review A, 2006, 74, .	2.5	56
6	Quantum Risk-Sensitive Estimation and Robustness. IEEE Transactions on Automatic Control, 2009, 54, 92-107.	5.7	56
7	System Identification for Passive Linear Quantum Systems. IEEE Transactions on Automatic Control, 2016, 61, 921-936.	5.7	51
8	Temporal Information Processing on Noisy Quantum Computers. Physical Review Applied, 2020, 14, .	3.8	49
9	Expressibility of the alternating layered ansatz for quantum computation. Quantum - the Open Journal for Quantum Science, 0, 5, 434.	0.0	48
10	Parametrization of the feedback Hamiltonian realizing a pure steady state. Physical Review A, 2005, 72, .	2.5	42
11	Linear Dynamical Quantum Systems. Communications and Control Engineering, 2017, , .	1.6	42
12	Computational Investigations of the Lithium Superoxide Dimer Rearrangement on Noisy Quantum Devices. Journal of Physical Chemistry A, 2021, 125, 1827-1836.	2.5	37
13	Zero-dynamics principle for perfect quantum memory in linear networks. New Journal of Physics, 2014, 16, 073032.	2.9	33
14	Structure identification and state initialization of spin networks with limited access. New Journal of Physics, 2014, 16, 023024.	2.9	32
15	Applications of quantum computing for investigations of electronic transitions in phenylsulfonyl-carbazole TADF emitters. Npj Computational Materials, 2021, 7, .	8.7	32
16	Semiclassical phase reduction theory for quantum synchronization. Physical Review Research, 2019, 1, .	3.6	31
17	Pure Gaussian state generation via dissipation: a quantum stochastic differential equation approach. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5324-5337.	3.4	30
18	Approximate amplitude encoding in shallow parameterized quantum circuits and its application to financial market indicators. Physical Review Research, 2022, 4, .	3.6	27

#	ARTICLE	IF	CITATIONS
19	Control of Quantum Systems Despite Feedback Delay. IEEE Transactions on Automatic Control, 2009, 54, 876-881.	5.7	25
20	Deterministic generation of Gaussian pure states in a quasilocal dissipative system. Physical Review A, 2013, 87, .	2.5	24
21	Amplitude estimation via maximum likelihood on noisy quantum computer. Quantum Information Processing, 2021, 20, 1.	2.2	21
22	Decoherence-Free Linear Quantum Subsystems. IEEE Transactions on Automatic Control, 2014, 59, 1845-1857.	5.7	20
23	Natural quantum reservoir computing for temporal information processing. Scientific Reports, 2022, 12, 1353.	3.3	19
24	Analysis and synthesis of feature map for kernel-based quantum classifier. Quantum Machine Intelligence, 2020, 2, 1.	4.8	18
25	Pure Gaussian states from quantum harmonic oscillator chains with a single local dissipative process. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 135301.	2.1	16
26	Efficient Discrete Feature Encoding for Variational Quantum Classifier. IEEE Transactions on Quantum Engineering, 2021, 2, 1-14.	4.9	15
27	Quantum semi-supervised generative adversarial network for enhanced data classification. Scientific Reports, 2021, 11, 19649.	3.3	15
28	Grover search revisited: Application to image pattern matching. Physical Review A, 2022, 105, .	2.5	13
29	Modified Grover operator for quantum amplitude estimation. New Journal of Physics, 2021, 23, 083031.	2.9	12
30	Quantum Feedback Amplification. Physical Review Applied, 2016, 5, .	3.8	11
31	Robust adaptive measurement scheme for qubit-state preparation. Physical Review A, 2012, 86, .	2.5	10
32	Cascade and locally dissipative realizations of linear quantum systems for pure Gaussian state covariance assignment. Automatica, 2018, 90, 263-270.	5.0	10
33	Speed limits for two-qubit gates with weakly anharmonic qubits. Physical Review A, 2022, 105, .	2.5	9
34	Simulating time evolution with fully optimized single-qubit gates on parametrized quantum circuits. Physical Review A, 2022, 105, .	2.5	8
35	Preparation of pure Gaussian states via cascaded quantum systems. , 2014, , .		7
36	Generating robust entanglement via quantum feedback. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 055501.	1.5	7

#	ARTICLE	IF	CITATIONS
37	On quantum-classical equivalence for linear systems control problems and its application to quantum entanglement assignment. , 2011, , .		5
38	Dynamical Gaussian state transfer with quantum-error-correcting architecture. Physical Review A, 2012, 85, .	2.5	5
39	Entanglement-assisted quantum feedback control. Quantum Information Processing, 2017, 16, 1.	2.2	5
40	Pulse-Engineered Controlled-V Gate and Its Applications on Superconducting Quantum Device. IEEE Transactions on Quantum Engineering, 2022, 3, 1-10.	4.9	5
41	Replacing measurement feedback with coherent feedback for quantum state preparation. Physical Review A, 2018, 97, .	2.5	4
42	Quantum Functionalities Via Feedback Amplification. Physical Review Applied, 2021, 15, .	3.8	4
43	Noisy quantum amplitude estimation without noise estimation. Physical Review A, 2022, 105, .	2.5	4
44	Systems identification for passive linear quantum systems: The transfer function approach. , 2013, , .		3
45	Towards Single-Input Single-Output Nonlinear System Identification and Signal Processing on Near-Term Quantum Computers. , 2019, , .		3
46	Quantum self-learning Monte Carlo and quantum-inspired Fourier transform sampler. Physical Review Research, 2020, 2, .	3.6	3
47	Robust quantum Kalman filtering under the phase uncertainty of the probe-laser. , 2010, , .		2
48	Estimation and initialization of quantum network via continuous measurement on single node. , 2013, , .		2
49	Pure Gaussian quantum states from passive Hamiltonians and an active local dissipative process. , 2016, , .		2
50	Linear open quantum systems with passive Hamiltonians and a single local dissipative process. Automatica, 2021, 125, 109477.	5.0	2
51	A Systems Theory Approach to the Synthesis of Minimum Noise Phase-Insensitive Quantum Amplifiers. , 2018, , .		2
52	Control limit on quantum state preparation under decoherence. Physical Review A, 2019, 99, .	2.5	1
53	Feedback control of entanglement in a linear quantum network: A case study. , 2008, , .		0
54	LQG measurement-feedback control of distributed entanglement generation between continuous-mode Gaussian fields. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
55	Quantum linear feedback control with entanglement assistance. , 2015, , .		0
56	Quantum back-action evasion via coherent feedback control: A geometric control approach. , 2016, , .		0
57	Linear Systems and Control Theory for Quantum Information. Communications and Control Engineering, 2017, , 203-257.	1.6	0