

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	Noisy quantum amplitude estimation without noise estimation. <i>Physical Review A</i> , 2022, 105, .	2.5	4
2	Natural quantum reservoir computing for temporal information processing. <i>Scientific Reports</i> , 2022, 12, 1353.	3.3	19
3	Grover search revisited: Application to image pattern matching. <i>Physical Review A</i> , 2022, 105, .	2.5	13
4	Pulse-Engineered Controlled-V Gate and Its Applications on Superconducting Quantum Device. <i>IEEE Transactions on Quantum Engineering</i> , 2022, 3, 1-10.	4.9	5
5	Speed limits for two-qubit gates with weakly anharmonic qubits. <i>Physical Review A</i> , 2022, 105, .	2.5	9
6	Approximate amplitude encoding in shallow parameterized quantum circuits and its application to financial market indicators. <i>Physical Review Research</i> , 2022, 4, .	3.6	27
7	Simulating time evolution with fully optimized single-qubit gates on parametrized quantum circuits. <i>Physical Review A</i> , 2022, 105, .	2.5	8
8	Efficient Discrete Feature Encoding for Variational Quantum Classifier. <i>IEEE Transactions on Quantum Engineering</i> , 2021, 2, 1-14.	4.9	15
9	Computational Investigations of the Lithium Superoxide Dimer Rearrangement on Noisy Quantum Devices. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1827-1836.	2.5	37
10	Linear open quantum systems with passive Hamiltonians and a single local dissipative process. <i>Automatica</i> , 2021, 125, 109477.	5.0	2
11	Quantum Functionalities Via Feedback Amplification. <i>Physical Review Applied</i> , 2021, 15, .	3.8	4
12	Applications of quantum computing for investigations of electronic transitions in phenylsulfonyl-carbazole TADF emitters. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	32
13	Modified Grover operator for quantum amplitude estimation. <i>New Journal of Physics</i> , 2021, 23, 083031.	2.9	12
14	Amplitude estimation via maximum likelihood on noisy quantum computer. <i>Quantum Information Processing</i> , 2021, 20, 1.	2.2	21
15	Quantum semi-supervised generative adversarial network for enhanced data classification. <i>Scientific Reports</i> , 2021, 11, 19649.	3.3	15
16	Amplitude estimation without phase estimation. <i>Quantum Information Processing</i> , 2020, 19, 1.	2.2	103
17	Analysis and synthesis of feature map for kernel-based quantum classifier. <i>Quantum Machine Intelligence</i> , 2020, 2, 1.	4.8	18
18	Temporal Information Processing on Noisy Quantum Computers. <i>Physical Review Applied</i> , 2020, 14, .	3.8	49

#	ARTICLE	IF	CITATIONS
19	Quantum self-learning Monte Carlo and quantum-inspired Fourier transform sampler. Physical Review Research, 2020, 2, .	3.6	3
20	Control limit on quantum state preparation under decoherence. Physical Review A, 2019, 99, .	2.5	1
21	Generating robust entanglement via quantum feedback. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 055501.	1.5	7
22	Towards Single-Input Single-Output Nonlinear System Identification and Signal Processing on Near-Term Quantum Computers. , 2019, , .		3
23	Semiclassical phase reduction theory for quantum synchronization. Physical Review Research, 2019, 1, .	3.6	31
24	Cascade and locally dissipative realizations of linear quantum systems for pure Gaussian state covariance assignment. Automatica, 2018, 90, 263-270.	5.0	10
25	Replacing measurement feedback with coherent feedback for quantum state preparation. Physical Review A, 2018, 97, .	2.5	4
26	A Systems Theory Approach to the Synthesis of Minimum Noise Phase-Insensitive Quantum Amplifiers. , 2018, , .		2
27	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
28	Linear Dynamical Quantum Systems. Communications and Control Engineering, 2017, , .	1.6	42
29	Entanglement-assisted quantum feedback control. Quantum Information Processing, 2017, 16, 1.	2.2	5
30	Linear Systems and Control Theory for Quantum Information. Communications and Control Engineering, 2017, , 203-257.	1.6	0
31	Pure Gaussian quantum states from passive Hamiltonians and an active local dissipative process. , 2016, , .		2
32	Quantum back-action evasion via coherent feedback control: A geometric control approach. , 2016, , .		0
33	Quantum Feedback Amplification. Physical Review Applied, 2016, 5, .	3.8	11
34	System Identification for Passive Linear Quantum Systems. IEEE Transactions on Automatic Control, 2016, 61, 921-936.	5.7	51
35	Quantum linear feedback control with entanglement assistance. , 2015, , .		0
36	Structure identification and state initialization of spin networks with limited access. New Journal of Physics, 2014, 16, 023024.	2.9	32

#	ARTICLE	IF	CITATIONS
37	Preparation of pure Gaussian states via cascaded quantum systems. , 2014, , .		7
38	Coherent versus Measurement Feedback: Linear Systems Theory for Quantum Information. Physical Review X, 2014, 4, .	8.9	65
39	Zero-dynamics principle for perfect quantum memory in linear networks. New Journal of Physics, 2014, 16, 073032.	2.9	33
40	Decoherence-Free Linear Quantum Subsystems. IEEE Transactions on Automatic Control, 2014, 59, 1845-1857.	5.7	20
41	Systems identification for passive linear quantum systems: The transfer function approach. , 2013, , .		3
42	Deterministic generation of Gaussian pure states in a quasiloca dissipative system. Physical Review A, 2013, 87, .	2.5	24
43	Estimation and initialization of quantum network via continuous measurement on single node. , 2013, , .		2
44	Dynamical Gaussian state transfer with quantum-error-correcting architecture. Physical Review A, 2012, 85, .	2.5	5
45	Dissipation-induced pure Gaussian state. Physical Review A, 2012, 85, .	2.5	61
46	LQG measurement-feedback control of distributed entanglement generation between continuous-mode Gaussian fields. , 2012, , .		0
47	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
48	Robust adaptive measurement scheme for qubit-state preparation. Physical Review A, 2012, 86, .	2.5	10
49	Experimental Demonstration of Coherent Feedback Control on Optical Field Squeezing. IEEE Transactions on Automatic Control, 2012, 57, 2045-2050.	5.7	84
50	On quantum-classical equivalence for linear systems control problems and its application to quantum entanglement assignment. , 2011, , .		5
51	Robust quantum Kalman filtering under the phase uncertainty of the probe-laser. , 2010, , .		2
52	Control of Quantum Systems Despite Feedback Delay. IEEE Transactions on Automatic Control, 2009, 54, 876-881.	5.7	25
53	Quantum Risk-Sensitive Estimation and Robustness. IEEE Transactions on Automatic Control, 2009, 54, 92-107.	5.7	56
54	Feedback control of entanglement in a linear quantum network: A case study. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
55	Robust observer for uncertain linear quantum systems. <i>Physical Review A</i> , 2006, 74, .	2.5	56
56	Parametrization of the feedback Hamiltonian realizing a pure steady state. <i>Physical Review A</i> , 2005, 72, .	2.5	42
57	Expressibility of the alternating layered ansatz for quantum computation. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 5, 434.	0.0	48