

Bartłomiej Gardas

List of Publications by Year in descending order

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32
papers

551
citations

840776

11
h-index

642732

23
g-index

33
all docs

33
docs citations

33
times ranked

512
citing authors

#	ARTICLE	IF	CITATIONS
1	Three phases of quantum annealing: Fast, slow, and very slow. <i>Physical Review A</i> , 2022, 105, .	2.5	6
2	Assessing the performance of quantum annealing with nonlinear driving. <i>Physical Review A</i> , 2022, 105, .	2.5	5
3	Brute-forcing spin-glass problems with CUDA. <i>Computer Physics Communications</i> , 2021, 260, 107728.	7.5	3
4	Approximate optimization, sampling, and spin-glass droplet discovery with tensor networks. <i>Physical Review E</i> , 2021, 104, 025308.	2.1	10
5	Parallel in time dynamics with quantum annealers. <i>Scientific Reports</i> , 2020, 10, 13534.	3.3	7
6	Separability gap and large-deviation entanglement criterion. <i>Physical Review A</i> , 2019, 100, .	2.5	5
7	Disorder-assisted graph coloring on quantum annealers. <i>Physical Review A</i> , 2019, 100, .	2.5	8
8	Counting defects in quantum computers with Graphics Processing Units. <i>Journal of Computational Physics</i> , 2018, 366, 320-326.	3.8	2
9	Defects in Quantum Computers. <i>Scientific Reports</i> , 2018, 8, 4539.	3.3	65
10	Quantum fluctuation theorem for error diagnostics in quantum annealers. <i>Scientific Reports</i> , 2018, 8, 17191.	3.3	36
11	Quantum neural networks to simulate many-body quantum systems. <i>Physical Review B</i> , 2018, 98, .	3.2	22
12	Dynamics of the quantum phase transition in the one-dimensional Bose-Hubbard model: Excitations and correlations induced by a quench. <i>Physical Review B</i> , 2017, 95, .	3.2	24
13	Non-hermitian quantum thermodynamics. <i>Scientific Reports</i> , 2016, 6, 23408.	3.3	58
14	Repeatability of measurements: Non-Hermitian observables and quantum Coriolis force. <i>Physical Review A</i> , 2016, 94, .	2.5	11
15	Space and time renormalization in phase transition dynamics. <i>Physical Review B</i> , 2016, 93, .	3.2	61
16	$\langle \text{PT} \rangle$ -symmetric slowing down of decoherence. <i>Physical Review A</i> , 2016, 94, .	2.5	32
17	Thermodynamic universality of quantum Carnot engines. <i>Physical Review E</i> , 2015, 92, 042126.	2.1	102
18	Energetics of an rf SQUID Coupled to Two Thermal Reservoirs. <i>PLoS ONE</i> , 2015, 10, e0143912.	2.5	1

#	ARTICLE	IF	CITATIONS
19	GPU-based acceleration of free energy calculations in solid state physics. <i>Computer Physics Communications</i> , 2015, 192, 220-227.	7.5	17
20	Reply to Comment on "Initial states of qubit" environment models leading to conserved quantities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 168002.	2.1	0
21	Reply to "Comment on: "Multi-photon Rabi model: Generalized parity and its applications" [Phys. Lett. A 377 (2013) 3205]" [Phys. Lett. A 378 (2014) 1969]. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 1970.	2.1	1
22	Multi-photon Rabi model: Generalized parity and its applications. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 3205-3208.	2.1	7
23	Relation Between Purity of an Open Qubit Dynamics and Its Initial Correlation with an Environment. <i>International Journal of Theoretical Physics</i> , 2013, 52, 1148-1159.	1.2	5
24	Initial states of qubit" environment models leading to conserved quantities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 235301.	2.1	1
25	New symmetry in the Rabi model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 265302.	2.1	9
26	Notes on the Riccati operator equation in open quantum systems. <i>Journal of Mathematical Physics</i> , 2012, 53, 012106.	1.1	1
27	Stationary states of two-level open quantum systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 215306.	2.1	2
28	Experimentally feasible measures of distance between quantum operations. <i>Quantum Information Processing</i> , 2011, 10, 1-12.	2.2	22
29	Riccati equation and the problem of decoherence II: Symmetry and the solution of the Riccati equation. <i>Journal of Mathematical Physics</i> , 2011, 52, 042104.	1.1	4
30	Exact solution of the Schrödinger equation with the spin-boson Hamiltonian. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 195301.	2.1	9
31	Exact reduced dynamics for a qubit in a precessing magnetic field and in contact with a heat bath. <i>Physical Review A</i> , 2010, 82, .	2.5	6
32	Riccati equation and the problem of decoherence. <i>Journal of Mathematical Physics</i> , 2010, 51, 062103.	1.1	9