

# 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	Thermodynamic universality of quantum Carnot engines. <i>Physical Review E</i> , 2015, 92, 042126.	2.1	102
2	Defects in Quantum Computers. <i>Scientific Reports</i> , 2018, 8, 4539.	3.3	65
3	Space and time renormalization in phase transition dynamics. <i>Physical Review B</i> , 2016, 93, .	3.2	61
4	Non-hermitian quantum thermodynamics. <i>Scientific Reports</i> , 2016, 6, 23408.	3.3	58
5	Quantum fluctuation theorem for error diagnostics in quantum annealers. <i>Scientific Reports</i> , 2018, 8, 17191.	3.3	36
6	$\langle \text{PT} \rangle$ -symmetric slowing down of decoherence. <i>Physical Review A</i> , 2016, 94, .	2.5	32
7	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
8	Experimentally feasible measures of distance between quantum operations. <i>Quantum Information Processing</i> , 2011, 10, 1-12.	2.2	22
9	Quantum neural networks to simulate many-body quantum systems. <i>Physical Review B</i> , 2018, 98, .	3.2	22
10	GPU-based acceleration of free energy calculations in solid state physics. <i>Computer Physics Communications</i> , 2015, 192, 220-227.	7.5	17
11	Repeatability of measurements: Non-Hermitian observables and quantum Coriolis force. <i>Physical Review A</i> , 2016, 94, .	2.5	11
12	Approximate optimization, sampling, and spin-glass droplet discovery with tensor networks. <i>Physical Review E</i> , 2021, 104, 025308.	2.1	10
13	Riccati equation and the problem of decoherence. <i>Journal of Mathematical Physics</i> , 2010, 51, 062103.	1.1	9
14	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
15	New symmetry in the Rabi model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 265302.	2.1	9
16	Disorder-assisted graph coloring on quantum annealers. <i>Physical Review A</i> , 2019, 100, .	2.5	8
17	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
18	Parallel in time dynamics with quantum annealers. <i>Scientific Reports</i> , 2020, 10, 13534.	3.3	7

#	ARTICLE	IF	CITATIONS
19	Exact reduced dynamics for a qubit in a precessing magnetic field and in contact with a heat bath. Physical Review A, 2010, 82, .	2.5	6
20	Three phases of quantum annealing: Fast, slow, and very slow. Physical Review A, 2022, 105, .	2.5	6
21	Relation Between Purity of an Open Qubit Dynamics and Its Initial Correlation with an Environment. International Journal of Theoretical Physics, 2013, 52, 1148-1159.	1.2	5
22	Separability gap and large-deviation entanglement criterion. Physical Review A, 2019, 100, .	2.5	5
23	Assessing the performance of quantum annealing with nonlinear driving. Physical Review A, 2022, 105, .	2.5	5
24	Riccati equation and the problem of decoherence II: Symmetry and the solution of the Riccati equation. Journal of Mathematical Physics, 2011, 52, 042104.	1.1	4
25	Brute-forcing spin-glass problems with CUDA. Computer Physics Communications, 2021, 260, 107728.	7.5	3
26	Stationary states of two-level open quantum systems. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 215306.	2.1	2
27	Counting defects in quantum computers with Graphics Processing Units. Journal of Computational Physics, 2018, 366, 320-326.	3.8	2
28	Notes on the Riccati operator equation in open quantum systems. Journal of Mathematical Physics, 2012, 53, 012106.	1.1	1
29	Initial states of qubitâ€“environment models leading to conserved quantities. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 235301.	2.1	1
30	Reply to â€œComment on: â€“Multi-photon Rabi model: Generalized parity and its applicationsâ€™ [Phys. Lett. A 377 (2013) 3205]â€•[Phys. Lett. A 378 (2014) 1969]. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1970.	2.1	1
31	Energetics of an rf SQUID Coupled to Two Thermal Reservoirs. PLoS ONE, 2015, 10, e0143912.	2.5	1
32	Reply to Comment on â€“Initial states of qubitâ€“environment models leading to conserved quantitiesâ€™. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 168002.	2.1	0