

Tameem Albash

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9056060/publications.pdf>

Version: 2024-02-01

60
papers

3,384
citations

186265

28
h-index

144013

57
g-index

61
all docs

61
docs citations

61
times ranked

1937
citing authors

#	ARTICLE	IF	CITATIONS
1	3-regular three-XORSAT planted solutions benchmark of classical and quantum heuristic optimizers. Quantum Science and Technology, 2022, 7, 025008.	5.8	18
2	Localization transition induced by programmable disorder. Physical Review B, 2022, 105, .	3.2	5
3	Customized Quantum Annealing Schedules. Physical Review Applied, 2022, 17, .	3.8	5
4	High-Quality Thermal Gibbs Sampling with Quantum Annealing Hardware. Physical Review Applied, 2022, 17, .	3.8	7
5	Comparing Relaxation Mechanisms in Quantum and Classical Transverse-Field Annealing. Physical Review Applied, 2021, 15, .	3.8	19
6	Diagonal catalysts in quantum adiabatic optimization. Physical Review A, 2021, 103, .	2.5	4
7	Testing a Quantum Annealer as a Quantum Thermal Sampler. ACM Transactions on Quantum Computing, 2021, 2, 1-20.	4.3	4
8	Limitations of error corrected quantum annealing in improving the performance of Boltzmann machines. Quantum Science and Technology, 2020, 5, 045010.	5.8	19
9	Validating a two-qubit nonstoquastic Hamiltonian in quantum annealing. Physical Review A, 2020, 101, .	2.5	2
10	Permutation matrix representation quantum Monte Carlo. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 073105.	2.3	4
11	Role of nonstoquastic catalysts in quantum adiabatic optimization. Physical Review A, 2019, 99, .	2.5	39
12	Sensitivity of quantum speedup by quantum annealing to a noisy oracle. Physical Review A, 2019, 99, .	2.5	7
13	Analog errors in Ising machines. Quantum Science and Technology, 2019, 4, 02LT03.	5.8	27
14	Analog nature of quantum adiabatic unstructured search. New Journal of Physics, 2019, 21, 113025.	2.9	8
15	Fundamental Limitations to the Scalability of Quantum Annealing Optimizers. Advances in Parallel Computing, 2019, , .	0.3	0
16	Quantum trajectories for time-dependent adiabatic master equations. Physical Review A, 2018, 97, .	2.5	15
17	Adiabatic quantum computation. Reviews of Modern Physics, 2018, 90, .	45.6	743
18	Exploring More-Coherent Quantum Annealing. , 2018, , .		11

#	ARTICLE	IF	CITATIONS
19	Solving Quantum Spin Glasses with Off-Diagonal Expansion Quantum Monte Carlo. Journal of Physics: Conference Series, 2018, 1136, 012007.	0.4	0
20	Demonstration of a Scaling Advantage for a Quantum Annealer over Simulated Annealing. Physical Review X, 2018, 8, .	8.9	108
21	Finite temperature quantum annealing solving exponentially small gap problem with non-monotonic success probability. Nature Communications, 2018, 9, 2917.	12.8	35
22	Temperature Scaling Law for Quantum Annealing Optimizers. Physical Review Letters, 2017, 119, 110502.	7.8	44
23	Relaxation versus adiabatic quantum steady-state preparation. Physical Review A, 2017, 95, .	2.5	21
24	Quantum-annealing correction at finite temperature: Ferromagnetic p -spin models. Physical Review A, 2017, 95, .	2.5	32
25	Off-diagonal expansion quantum Monte Carlo. Physical Review E, 2017, 96, 063309.	2.1	18
26	Simulated-quantum-annealing comparison between all-to-all connectivity schemes. Physical Review A, 2016, 94, .	2.5	22
27	Adiabaticity in open quantum systems. Physical Review A, 2016, 93, .	2.5	68
28	Mean Field Analysis of Quantum Annealing Correction. Physical Review Letters, 2016, 116, 220501.	7.8	28
29	Tunneling and Speedup in Quantum Optimization for Permutation-Symmetric Problems. Physical Review X, 2016, 6, .	8.9	53
30	Nested quantum annealing correction. Npj Quantum Information, 2016, 2, .	6.7	39
31	Performance of two different quantum annealing correction codes. Quantum Information Processing, 2016, 15, 609-636.	2.2	30
32	Entanglement entropy of magnetic electron stars. Journal of High Energy Physics, 2015, 2015, 1.	4.7	1
33	Decoherence in adiabatic quantum computation. Physical Review A, 2015, 91, .	2.5	104
34	Quantum annealing correction with minor embedding. Physical Review A, 2015, 92, .	2.5	67
35	Probing for quantum speedup in spin-glass problems with planted solutions. Physical Review A, 2015, 92, .	2.5	117
36	Reexamination of the evidence for entanglement in a quantum annealer. Physical Review A, 2015, 92, .	2.5	27

#	ARTICLE	IF	CITATIONS
37	Consistency tests of classical and quantum models for a quantum annealer. Physical Review A, 2015, 91, .	2.5	97
38	Quantum annealing correction for random Ising problems. Physical Review A, 2015, 91, .	2.5	74
39	Error-corrected quantum annealing with hundreds of qubits. Nature Communications, 2014, 5, 3243.	12.8	139
40	Coherent control of non-Markovian photon-resonator dynamics. Physical Review A, 2014, 90, .	2.5	2
41	Experimental signature of programmable quantum annealing. Nature Communications, 2013, 4, 2067.	12.8	223
42	Fluctuation theorems for quantum processes. Physical Review E, 2013, 88, 032146.	2.1	95
43	Coarse graining can beat the rotating-wave approximation in quantum Markovian master equations. Physical Review A, 2013, 88, .	2.5	48
44	Holography, Fractionalization and Magnetic Fields. Lecture Notes in Physics, 2013, , 537-554.	0.7	5
45	Quantum adiabatic Markovian master equations. New Journal of Physics, 2012, 14, 123016.	2.9	202
46	Holographic studies of entanglement entropy in superconductors. Journal of High Energy Physics, 2012, 2012, 1.	4.7	75
47	Quantum Hall states in graphene from strain-induced nonuniform magnetic fields. Physical Review B, 2012, 86, .	3.2	17
48	Holographic entanglement entropy and renormalization group flow. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
49	Dynamics of fundamental matter in $\mathcal{N} = 2^*$ Yang-Mills theory. Journal of High Energy Physics, 2011, 2011, 1.	4.7	4
50	Thermal dynamics of quarks and mesons $\mathcal{N} = 2^*$ Yang-Mills theory. Journal of High Energy Physics, 2011, 2011, 1.	4.7	2
51	Evolution of holographic entanglement entropy after thermal and electromagnetic quenches. New Journal of Physics, 2011, 13, 045017.	2.9	156
52	Landau levels, magnetic fields and holographic Fermi liquids. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 345404.	2.1	11
53	Holographic aspects of Fermi liquids in a background magnetic field. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 345405.	2.1	9
54	Vortex and droplet engineering in a holographic superconductor. Physical Review D, 2009, 80, .	4.7	62

#	ARTICLE	IF	CITATIONS
55	A holographic superconductor in an external magnetic field. Journal of High Energy Physics, 2008, 2008, 121-121.	4.7	140
56	Topology-changing first order phase transition and the dynamics of flavor. Physical Review D, 2008, 77, .	4.7	37
57	Global R-currents and phase transitions in large N_c gauge theory. Journal of High Energy Physics, 2008, 2008, 033-033.	4.7	17
58	Finite temperature large N_c gauge theory with quarks in an external magnetic field. Journal of High Energy Physics, 2008, 2008, 080-080.	4.7	82
59	Quarks in an external electric field in finite temperature large N_c gauge theory. Journal of High Energy Physics, 2008, 2008, 092-092.	4.7	74
60	De-Signing Hamiltonians for Quantum Adiabatic Optimization. Quantum - the Open Journal for Quantum Science, 0, 4, 334.	0.0	18